Timothy Ken Mackey, MAS, PhD
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Business Address:

Global Health Policy and Data Institute	ResearchGate Score: 42.61 (97.5%)
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EDUCATION

2010–2013   *University of California, San Diego – School of Medicine & San Diego State University*
Joint Doctoral Degree Program in Global Public Health
Doctor of Philosophy (PhD) in Global Public Health
Dissertation: "Global Governance and Diplomacy Solutions for Counterfeit Medicines"

2011   *Graduate Institute, Geneva*
Executive Course, Global Health Diplomacy

2007-2009   *University of California, San Diego – School of Medicine & California Western School of Law*
Joint Masters Degree Program in Health Policy and Law
Masters in Advanced Studies (MAS) in Health Policy and Law

1998-2002   *University of California, San Diego*
Department of Political Science, Thurgood Marshall College
Bachelor of Arts in Political Science – International Relations
Minor: Japanese Studies
Education Abroad Program: Department of Law, Kyoto University, Japan, Academic Year 2000-2001
Provost Term Honors: Fall 1998 and Spring 2002

PROFESSIONAL EMPLOYMENT

2021–present   Professor, Global Health Program, Department of Anthropology, Division of Social Sciences, University of California, San Diego, USA

2020–present   Faculty Affiliate, San Diego Supercomputer Center, University of California, San Diego, San Diego, USA

2019–present   Visiting Professor, Rady School of Management, University of California, San Diego, San Diego, USA

2017–2021   Associate Professor, Joint Appointment Department of Anesthesiology and Division of Infectious Diseases and Global Public Health, School of Medicine, University of California, San Diego, USA

2017–2021   Director, Healthcare Research and Policy, University of California, San Diego - Extension, San Diego, USA

2014–2020   Associate Director, Joint Masters Degree Program in Health Policy and Law, University of California, San Diego School of Medicine – California Western School of Law, San Diego, USA

2014–present   Director, Global Health Policy and Data Institute, San Diego, USA

2013–2017   Assistant Professor, Joint Appointment Department of Anesthesiology and Division of Global Public Health, School of Medicine, University of California, San Diego, USA

2012–2013	Coordinator for Global Health Research, MAS Program in Health Law and Policy, School of Medicine, University of California, San Diego, USA
2012–2013	Clinical Instructor, Department of Anesthesiology, School of Medicine, University of California, San Diego, USA
2010–2013	Senior Research Associate, Institute of Health Law Studies, California Western School of Law, San Diego, USA
2013	Intern, Department of Public Health, Innovation, and Intellectual Property, World Health Organization, Geneva, Switzerland
2006–2014	Senior Legal and Compliance Specialist, ResMed Inc. (private sector), San Diego, USA (awarded Continuous Improvement Award and nominated 3 times for employee of the quarter)
2004–2006	Corporate Paralegal, Nobel Ltd. (private sector), San Diego, USA
2002–2003	Assistant Language Teacher, Yokohama Board of Education (JET Program), Yokohama, Japan
2000–2001	Undergraduate Research Assistant, Department of Integrated Human Studies, Kyoto University, Kyoto, Japan

START UPS/COMPANY OWNERSHIP

2018–present	Co-Founder, Chief Executive Officer, S-3 Research, LLC - Technology and health Startup company incorporation and funded by NIH award and SBIR contract website: www.s-3.io

CONSULTANCIES/INDUSTRY ADVISORY BOARDS

2021–present	Paid Mentor, The Vault Korea
2019–present	Consultant, Center for International Private Enterprise
2019–present	Consultant, Alphasights
2017–present	Member, Advisory Board, FarmaTrust
2016–2017	Consultant, U.S. Department of Justice
2016	Consultant, Ergo
2016–present	Senior Analyst, Wikistrat
2015–present	Council Member, Gerson Lehrman Group
2014	Consultant, Abraham, Fruchter & Twersky, LLP, New York, New York
2013–2018	Consultant, Department of Public Health, Innovation, and Intellectual Property (2013), Essential Medicines and Health Products (2016, 2018), World Health Organization, Geneva, Switzerland

PROFESSIONAL ACTIVITIES

Memberships in Professional Organizations/Societies

2020–present	PRISM Health Symposium, Steering Committee Member
2018–present	Alliance to Counter Crime Online, Member
2018–present	San Diego Supercomputer Center, BlockLAB, Lab Principal Researcher
2018–present	HIMSS and HIMSS Blockchain Taskforce, Member
2018–present	American Medical Writers Association, Member
2018–present	International Society for Medical Publication Professionals, Member
2017–present	IEEE Standards Association, Co-Chair Supply Chain/Clinical Trials Technology Implementation Industry Connections Program
2017–2019	Consortium of Universities for Global Health, Education Sub-Committee: Master's and Undergraduate Degrees in Global Health, Member
2017–present	UC San Diego Center for Drug Discovery Innovation, Member
2017–present	IEEE & IEEE Standards Association, member
2017–present	National Institutes of Health, Center for Scientific Review, Early Career Reviewer Program, Reviewer

2016–2017	IEEE Standards Association, Blockchain Special Interest Group, Member
2016–present	WHO Collaborating Centre for Governance, Accountability and Transparency in the Pharmaceutical Sector, Fellow
2016–present	Center for Health Trends and Forecasts, Institute for Health Metrics and Evaluation, Affiliate
2016–present	UC San Diego Undergraduate Global Health Program, Affiliated Faculty
2014–present	Moores Cancer Center, Associate Member
2014–present	Calit2 Strategic Research Opportunities Program, Investigator
2013–present	Council on Foreign Relations, Stephen M. Kellen Term Membership Program
2013–present	Bouchet Graduate Honor Society, lifetime member
2013–present	Delta Omega Honor Society, Sigma Chapter
2010–present	American Public Health Association, member
2012–2013	American College of Healthcare Executives, student member
2012–2013	Golden Key International Honour Society, student member
2012–2013	Phi Kappa Phi, student member
2011–2012	Scholars Without Borders, student member

Journal Editorial Service

2021–present	Editor-in-Chief, JMIR Infodemiology
2020–present	Editorial Board, Journal of Hospital Management and Health Policy
2018–present	Editorial Board, Blockchain in Healthcare Today
2017–present	Editorial Board, Medicine Access @ Point of Care
2016–present	Section Editor, Global Health, BMC Public Health
2016–present	Editorial Board, BMC Medicine
2016–present	Editorial Board, Global Health Governance
2013–2016	Associate Editor, BMC Public Health
2014–2015	Article Editor, SAGE Open

Academic Committees/University Service/Professional Participation

2021	Invited Participant, 5th WHO Infodemic Management Conference, World Health Organization
2021	Session Moderator, 2021 American Public Health Association Annual Meeting, APHA
2021-present	Co-Chair, Working Group on Global Health Equity and Digital Technology, World Federation of Public Health Associations
2021	Guest Speaker and Academic Poster Judge, 5th Annual Virtual Conference: COVID19: Media, Misinformation, and Science Communication, University of Connecticut
2021	Guest Speaker and Panelist, American Mock World Health Organization Conference, UC San Diego Chapter
2020-present	Affiliate Faculty Member, Center for Anti-Counterfeiting and Product Protection (A-CAPP), Michigan State University, College of Social Science
2020-present	Affiliate Faculty Member, Joint Doctoral Program in Interdisciplinary Research on Substance Abuse, San Diego State University – UC San Diego
2020-present	Advisor, ReCODE Health, UC San Diego
2020	Moderator, Meet the Boss: The Public Sector, UCSD Student Alumni Associates, February 19, 2020.
2019	Guest Faculty Judge, Lab to Market Workshop II, UCSD Rady School of Management, October 1, 2019.
2019	Session Chair, "Hand in Hand: How Using Tech and Data Can Lead to Better Partnerships", Medicine X	CHANGE 2019, Stanford University School of Medicine, September 21, 2019.
2019	Invited Faculty Participant, UCOP Initiative: Building Climate Change and Sustainability Healthcare Education Across the UC System Workshop, UC San Diego

2018	Session Chair, Medicine Quality & Public Health Conference 2018, Internet Sector & Medicine Quality Session, Nuffield Department of Health, University of Oxford
2018	Faculty Judge, Biotechnology Consulting Competition, BioScholars at UCSD, Biological Sciences Students Association
2017	Expert Respondent, WHO Third Global Patient Safety Challenge: Medication Without Harm, WHO-HQ Patient Safety and Risk Management Unit, Service Delivery and Safety Department
2017	Faculty Judge, Horizons of Global Health Research Symposium 2017, UC San Diego
2017	Invited Participant, DSCSA & Blockchain VirtualPilot, Center for Supply Chain Studies
2017-present	Global Health Program Advisory Committee, UC San Diego – Global Health Program (undergraduate), Committee Member
2017	IEEE Standards Association, Pharma Supply Blockchain Forum, Advisory Board Member
2016	Problem Sponsor and Mentor, IEEE Standards Association, Advancing HealthTech for Humanity Series™, Virtual Blockchain Workshop
2015	Moderator, 2015 UC San Diego FISP Symposium
2015	Faculty Judge, UCSD Grad Slam Competition
2014–2015	Member, Policy Committee, International Health Section, American Public Health Association
2014–present	Member, Advisory Board for Medical Writing and Editing Certificate, UC San Diego – Extension
2014–present	Academic Program Representative, UC San Diego, Office of Graduate Studies Commencement 2014, 2015
2014	Moderator, UC Global Health Day 2014, Breakout Session, UC Davis
2013–present	Program Planning Chair, Trade and Health Forum, American Public Health Association
2012–2013	Co-Chair, Good Governance in Global Health Project, UC San Diego – University of Toronto
2012-2013	Chair, American Public Health Association, Trade and Health Forum (forum awarded 2012 APHA Education Board Award for Excellence)
2012	Participant, University of California Graduate Research Advocacy Day
2012	Panelist, UC San Diego-Extension, Showcase
2011-2012	Secretary, Trade and Health Forum, American Public Health Association,
2009-2013	Member, CME Committee, Institute of Health Law Studies, California Western School of Law

Invited Expert to International, Scientific Consultations and Committees

2021	Session Moderator and Judge, PRISM 2021 Annual Symposium
2021	Session Facilitator, Interactive Session on Digital Health, ISMPP West 2021 Meeting
2021	Steering Committee Member, APEC Medical Product Quality & Supply Chain Security Priority Work Area, U.S. Food and Drug Administration and USP
2020	Invited Advisory Committee Member, Scientific Advisory Board, San Diego County Board of Supervisors Nathan Fletcher
2019	Invited International Expert, National Taiwan University, Application of IT in Pharmacy Services Consultation, Taipei, Taiwan
2019	Invited Participant and Presenter, U.S. Food and Drug Administration Second Online Opioid Summit, Silver Spring, MD
2019	Invited Participant and Presenter, Digital Health Innovations and Investments for Combatting the Opioid Crisis, Milken Institute, Discover Education, New York City, NY.
2019	Invited Facilitator, Consultation for a Proposed Global Network on Anti-corruption, Transparency and Accountability (GNACTA) in Health Systems, Geneva, Switzerland.
2018	Invited Participant, AI Collaboration to End Wildlife Trafficking Online Workshop, Global Coalition to End Wildlife Trafficking Online, Redmond, WA, USA.
2018	Invited Participant, World Health Organization Writing Workshop on anti-corruption,

	transparency and accountability in the health sector, Geneva, Switzerland
2018	Invited Participant and Presenter, U.S. Food and Drug Administration Online Opioid Summit, Silver Spring, MD
2017	Invited Participant, IEEE-SA Blockchain Think Tank Workshop
2017	Expert Respondent, Third Global Patient Safety Challenge: Medication Without Harm, WHO-HQ Patient Safety and Risk Management Unit, Service and Safety Delivery Department
2016	Invited Participant, Duke Margolis Center for Health Policy, Workshop: "Pharmaceutical Compliance and Enforcement to Achieve Drug Quality: Establishing a Strategic Framework of Outcomes with Performance Indicators"
2015	Invited Participant, U.S. Department of State, Office of Global Partnerships, Communications Roundtable, "Educating Consumers on the Dangers of Illegitimate Online Pharmacies"
2015	Invited Participant, J. Craig Venter Institute, San Diego Policy Network Meeting
2015	Co-Moderator, Applied Global Health Diplomacy Invited Scientific Session, Global Health Events, American Public Health Association Annual Meeting 2015
2014	Invited Participant, Kaiser Family Foundation, Corruption and Global Health: A Policy Roundtable
2014–present	Member, Academic Advisory Panel, Alliance for Safe Online Pharmacies
2014	Expert Respondent, The World Justice Project, WJP Rule of Law Index Report
2013	Invited Participant, World Health Organization Expert Consultation on Security and Trust of Health Internet, Geneva, Switzerland
2013	Expert Speaker, U.S. Department of State, Bureau of International Information Programs
2013	Moderator, "Biology's Brave New World" Discussant: Laurie Garrett, Council on Foreign Relations Annual Term Member Meeting 2013, Manhattan, New York City
2013	Invited Participant, "Reducing the Threat of Counterfeit and Unapproved Drugs in Clinical Settings", Engelberg Center for Healthcare Reform, Brookings Institution, Washington D.C.
2013	Invited Participant, Technical Conference on the Trafficking in Fraudulent Medicines, UN Office of Drugs and Crime, Vienna Austria
2012–present	Moderator, American Public Health Association Annual Meeting, Trade and Health Forum
2012	Invited Participant, Association of Schools of Public Health Student Leadership Institute
2012	Invited Participant, Roundtable on Bioethics and Drug Shortages, Rady Children's Hospital

Grant Review

2015	Research Council of Norway, Global Health and Vaccination Program (GLOBVAC)
2014	Welcome Trust, Multi-user Equipment, Biomedical Resource or Technology Development Grant

Professional/Ad-hoc Advising: U.S. Food and Drug Administration; U.S. Federal Bureau of Investigation; Chief Investigative Counsel, U.S. Senate Committee on Commerce, Science & Transportation; Chief Investigative Counsel, U.S. House Energy and Commerce Committee; The National Academies of Sciences, Engineering, and Medicine; CEPI; U.S. Senate Homeland Security and Government Affairs Committee - Permanent Subcommittee on Investigations; Google; U.S. Drug Enforcement Agency; USP; U.S. HR Representative David McKinley's Office; U.S. Senate Member Joe Manchin's Office; FBI JCODE; U.S. Department of State – Office of International Health and Biodefense

Accredited Educational Activities

2014	Faculty, "Shifting Paradigms: Medical Ethics, Public Health Ethics, and the Law – Part III: Ethics and the Law: Mapping the Patient Safety Terrain" American Health Lawyers Association, December 16, 2014 (CLE Accredited Activity)

| 2014 | Faculty, "Internet Drug Sellers: What Providers Need to Know" Alliance for Safe Online Pharmacies, available online from January 2015 (CME Accredited Activity) |

Invited Educational Webinars

2021	Panelist, Virtual Public Workshop, "Informing and Refining the Prescription Drug Promotion Research Agenda", Duke Margolis Center for Health Policy, November 19, 2021 [virtual panelist and presenter]
2021	Moderator, co-presenter, Webinar. "The Impact of COVID-19 on Publications Planning", UCTV, February 10, 2021 [co-presented with Dikran Toroser, Carol Keys, Agnella Matic, and John Czekanski], available at: https://www.uctv.tv/shows/The-Impact-of-COVID-19-on-Publications-Planning-36618
2020	Co-presenter, Webinar. "Why Digital Health is More Important Than Ever: Leveraging Emerging Technologies in the Fight Against COVID-19", UCTV, June 2, 2020 [co-presented with Nex Cubed Dr. Daniel Haders II], available at: https://www.uctv.tv/shows/Why-Digital-Health-is-More-Important-Than-Ever-Leveraging-Emerging-Technologies-in-the-Fight-Against-COVID-19-35959
2020	Invited Co-presenter, Webinar. "COVID-19 and Corruption: Exploring Corruption Risks in the Health Sector", Center for International Private Enterprise, May 27, 2020 [co-presented with Mostafa Hunter (UNDP) and Sarah Steingruber], available at: https://www.cipe.org/events/covid-19-and-corruption-exploring-corruption-risks-in-the-health-sector/
2020	Invited Co-presenter, Webinar. "Innovating Through Crisis: Don't Just Survive – Thrive", Harvard Business School Club of Washington, May 14, 2020 [co-presented with Prof. Lynda Applegate, Harvard Business School]
2019	Invited Co-presenter, seminar and webinar. "Applied Global Health Diplomacy Competencies for More Effective Global Health Action", National Institutes of Health, Global Health Interest Group, October 30, 2019 [co-presented with Dr. Matthew Brown, PhD]
2017	Invited Speaker, Webinar. "Combatting Fake Medicines: Improving Surveillance Approaches by Leveraging Technology and Policy", US FDA Committee for Advancement of Clinical and Scientific Education, January 17, 2018.
2017	Invited Speaker, Webinar/Webex "Case Study of Counterfeit Avastin: A Story of Economic Opportunity and Pharmaceutical Crime", US FDA Workgroup on Economically Motivated Adulteration, August 31, 2017.
2017	Invited Panelist, Webinar "Securing the Pharma Supply Chain with Blockchain", IEEE Standards Association, May 9, 2017.
2016	Invited Panelist, Webinar "Blockchain in Pharma", IEEE Standards Association, December 15, 2016.
2016	Invited Guest Faculty, Webinar "Counterfeit Medicines in Developing and Developed Nations: Consequences to Public Health", Trident University International, Public Health Talks, February 12, 2016, see event details at: https://www.trident.edu/webinars/public-health-talks/
2015	Invited Panelist, Webinar "Internet Drug Sellers: The Debate on Off-Label Promotion: Amarin Ruling", FDANews, August 31, 2015, see event details at: http://www.fdanews.com/debateofflabelpromo

Journal Review (see Publons profile at: https://publons.com/author/304712/tim-mackey#profile)

2020–present	Reviewer, Science
2020–present	Reviewer, Lancet Digital Health
2018–present	Reviewer, Management Science
2018–present	Reviewer, Digital Medicine
2018–present	Reviewer, American Journal of Tropical Medicine and Hygiene
2018–present	Reviewer, JAMA Open

2018–present	Reviewer, ACS Earth and Space Chemistry
2017–present	Reviewer, Lancet Oncology
2017–present	Reviewer, IEEE Access
2017–present	Reviewer, The International Journal of Human Rights
2017–present	Reviewer, PLoS Neglected Tropical Diseases
2017–present	Reviewer, BMJ Global Health
2017–present	Reviewer, Psychiatry Research
2017–present	Reviewer, Reproductive Biomedicine & Society
2017–present	Reviewer, Emerging Infectious Diseases
2017–present	Reviewer, Psychiatry Research
2017–present	Reviewer, Journal of Advertising
2017–present	Reviewer, Applied Health Economics and Health Policy
2017–present	Reviewer, Journal of International Relations & Development
2017–present	Reviewer, Technological Forecasting & Social Change
2017–present	Reviewer, Regenerative Medicine
2017–present	Reviewer, BMJ Paediatrics Open
2017–present	Reviewer, Tobacco Prevention & Cessation
2017–present	Reviewer, BMC Medical Informatics and Decision Making
2017–present	Reviewer, Journal of Marketing Communications
2017–present	Reviewer, The International Journal of Human Resource Management
2017–present	Reviewer, Medicines Access @ Point of Care
2017–present	Reviewer, Journal of Dietary Supplements
2016–present	Reviewer, Science Translational Medicine
2016–present	Reviewer, Medical Anthropology
2016–present	Reviewer, Pharmacoepidemiology & Drug Safety (named as a 2016 Best Reviewer)
2016–present	Reviewer, The Lancet Diabetes & Endocrinology
2016–present	Reviewer, Health Policy and Planning
2016–present	Reviewer, Pharmaceutical Medicine
2016–present	Reviewer, Drug and Alcohol Review
2016–present	Reviewer, Expert Opinion on Orphan Drugs
2016–present	Reviewer, The European Journal of Health Economics
2016–present	Reviewer, The American Journal of Drug & Alcohol Abuse
2016–present	Reviewer, Nursing Ethics
2016–present	Reviewer, BMC Medicine
2016–present	Reviewer, Alcohol and Alcoholism
2016–present	Reviewer, Journal of Complementary and Integrative Medicine
2016–present	Reviewer, BMC Anesthesiology
2016	Book Proposal Reviewer, Oxford University Press
2016	Reviewer, Delphi Consensus Study, ONLINE-MedQUARG
2016	Reviewer, Cochrane Consumers and Communication Review Group
2015–present	Reviewer, New England Journal of Medicine
2015–present	Reviewer, British Journal of Anaesthesia
2015–present	Reviewer, Global Health Governance
2015–present	Reviewer, Mayo Clinic Proceedings
2015–present	Reviewer, JMIR Public Health & Surveillance
2015–present	Reviewer, Development in Practice
2015–present	Reviewer, Journal of Health Communication
2015–present	Reviewer, BMJ Quality & Safety
2015–present	Reviewer, International Journal of Health Policy and Management
2015–present	Reviewer, Substance Use and Misuse
2015–present	Reviewer, Medical Care Research and Review
2015–present	Reviewer, Nicotine & Tobacco Research
2015–present	Reviewer, Harm Reduction Journal

2015–present	Reviewer, Victims & Offenders
2015–present	Reviewer, Human Resources for Health
2015–present	Reviewer, Journal of Health Diplomacy
2015–present	Reviewer, Palgrave Communications
2015–present	Reviewer, Postgraduate Medicine
2015–present	Reviewer, JMIR Cancer
2015–present	Reviewer, BMC Complementary & Alternative Medicine
2015–present	Reviewer, Substance Abuse Treatment, Prevention, and Policy
2014–present	Reviewer, JAMA
2014–present	Reviewer, PLoS One
2014–present	Reviewer, Pediatrics
2014–present	Reviewer, Clinical Microbiology and Infection
2014–present	Reviewer, Research in Social & Administrative Pharmacy
2014–present	Reviewer, Future Virology
2014–present	Reviewer, Therapeutics and Clinical Risk Management
2014–present	Reviewer, Yale Journal of Health Policy, Law, and Ethics
2014–present	Reviewer, International Journal for Quality in Health Care
2014–present	Reviewer, Computers in Human Behavior
2014–present	Reviewer, Asian Journal of Criminology
2013–present	Reviewer, American Journal of Public Health
2013–present	Reviewer, Global Public Health
2013–present	Reviewer, Applied Clinical Informatics
2013–present	Reviewer, CMAJ
2013–present	Reviewer, BMJ
2013–present	Reviewer, The Cochrane Effective Practice and Organisation of Care (EPOC) Group
2013–present	Reviewer, BMC Health Services Research
2012–present	Reviewer, American Journal of Preventative Medicine
2012–present	Reviewer, Journal of Medical Internet Research
2012–present	Reviewer, BMC International Health and Human Rights
2012–present	Reviewer, Tobacco Control
2012–present	Reviewer, Drug and Alcohol Dependence
2012–present	Reviewer, The American Journal of Drug and Alcohol Abuse
2012–present	Reviewer, Journal of Translational Medicine
2012–present	Reviewer, Global Health Action
2012–present	Reviewer, PLoS Medicine
2012–present	Reviewer, Bulletin of the World Health Organization
2012–present	Reviewer, Journal of Public Health
2012–present	Reviewer, Annals of Internal Medicine
2012–present	Reviewer, BMJ Open
2011–present	Reviewer, International Journal of Occupational and Environmental Health
2011–present	Reviewer, Journal of Law, Medicine & Ethics
2011–present	Reviewer, Journal of Mass Communication & Journalism
2011–present	Reviewer, Progress in Community Health Partnerships: Research Education and Action
2012–present	Report Reviewer, U4 Anti-Corruption Resource Centre
2012–present	Conference Reviewer, American Public Health Association Annual Meeting
2012–2014	Conference Reviewer, Medicine 2.0' 12, 14
2012–2014	Conference Reviewer, World Congress on Public Health (WFPHA) Annual Meetings

HONORS AND AWARDS
Awards for Scholarship and Merit

2020	Travel Award, Society for Research on Nicotine & Tobacco
2018	Start an SUD Startup Challenge Award 2017, National Institute on Drug Abuse,

Awardee

2018	40 Under 40 Alumni Award, UC San Diego, Nominee
2017	Robert Wood Johnson Foundation, New Connection Publication Support Award
2017	Opioid Code-a-thon, U.S. Department of Health and Human Services, Prevention Track Finalist (team from UC San Diego, US Centers for Disease Control and Prevention, and IBM)
2017	Center for Faculty Diversity and Equity, NCFDD Faculty Success Program, UC San Diego
2016	National Institute on Drug Abuse, Diversity Scholars Network Professional Development Workshop Award
2013	Jean Fort Dissertation Prize, UC San Diego (awarded annually to single dissertation in all disciplines at UC San Diego)
2013	Edward Alexander Bouchet Graduate Honor Society, UC San Diego Chapter
2011–2012	Rita L. Atkinson Graduate Fellowship, UC San Diego (awarded annually to two interdisciplinary scholars in all disciplines)
2012	Interdisciplinary Scholar Award, UC San Diego
2012	University of California Graduate Research Advocacy Day Award, UC San Diego (awarded annually to two students to promote policy advocacy for graduate studies)
2012	Phi Kappa Phi Love of Learning Award, Phi Kappa Phi Honor Society
2012	4th Annual San Diego Organization of Healthcare Leaders Student Poster Competition (1st place)
2011–2012	Carl L. Alsberg, MD Fellow for Safe Medicines, Partnership for Safe Medicines
2011–2012	Inamori Fellowship, San Diego State University
2011	President's Award, San Diego State University
2011	SDSU Graduate Student Travel Fund, San Diego State University
2000	Association of International Exchange, Japan (AIEJ) Scholarship

PUBLICATIONS (Total: 224)

Journal Publications (Total: 184)

1. Mackey T. Climate Ready Genetically Modified Crops. *J Biolaw Bus*. 2008;11(3).
2. Mackey TK, Liang BA. Incentivizing "Green" Technology Transfer to Developing Countries. *J Biolaw Bus*. 2009;12(4):11-14.
3. Liang BA, Mackey TK. Reforming Off-Label Promotion to Enhance Orphan Disease Treatment. *Science.* 2010;327(5963):273-274.
4. Liang BA, Mackey TK. Consent Contraindicated? In Reply. *Science*. 2010;328(5974):45.
5. Mackey TK, Liang BA. The Role of Practice Guidelines in Medical Malpractice Litigation. *AMA Journal of Ethics (formerly Virtual Mentor).* 2011;13(1):36-41.
6. Liang, BA, Mackey TK. Direct to Consumer Advertising with Interactive Internet Media: Global Regulation and Public Health Issues. *JAMA.* 2011;305(8):824-825.
7. Mackey TK, Liang BA. The Nagoya Protocol: Attempting to Protect Biodiversity and Indigenous Rights Against Biopiracy. *J Biolaw Bus*. 2011;14(1&2).
8. Liang BA, Mackey TK. Reforming Direct-to-Consumer Advertising. *Nature Biotech.* 2011; 29(5):397-400.
9. Mackey TK, Liang BA. Promoting Online Drug Safety: Using Public–Private Partnerships to Deter Illicit Online Drug Sales. *J Comm Biotech*. 2011;17(3):266-271.
10. Liang BA, Mackey TK. Prevalence and Global Health Implications of Social Media in Direct-to-Consumer Drug Advertising. *J Med Internet Res*. 2011;13(3):e64 doi:10.2196/jmir.1775.
11. Mackey TK, Liang BA. The Global Counterfeit Drug Trade: Patient Safety and Public Health Risks. *J Pharm Sci.* 2011;100(11):4571-4579.
12. Liang BA, Mackey TK. Quality and Safety in Health Care: What Does What the Future Hold? *Arch Path Lab Med*. 2011;135:1425-1431.
13. Liang BA, Mackey TK. Emerging Patient Safety Issues Under Healthcare Reform: Follow On Biologics and Immunogenicity. *Ther Clin Risk Manag*. 2011;7:483-489.

14. Liang BA, <u>Mackey TK</u>, Lovett, KM. eHealth Ethics: The Online Medical Marketplace and Emerging Ethical Issues. *Ethics Biol Eng Med*. 2011;2(3):253-265.
15. Liang BA, <u>Mackey TK</u>. Vaccine Shortages and Suspect Online Pharmacy Sellers. *Vaccine*. 2012;30(2):103-105.
16. <u>Mackey TK</u>, Liang BA. Lessons from SARS and 2009 H1N1 influenza: Employing a WHO-WTO Forum to Promote Optimal Economic-Public Health Pandemic Response. *J Pub Health Policy* 2012;33(1):119-131. [accompanied by editorial commentary].
17. Liang BA, Lovett KM, <u>Mackey, TK</u>. eElder Abuse. *J Am Geriatr Soc*. 2012;60:398–400.
18. Liang BA, <u>Mackey TK</u>. Online Availability and Safety of Drugs in Shortage: A Descriptive Study of Internet Vendor Characteristics. *J Med Internet Res*. 2012;14(1):e27.
19. <u>Mackey TK</u>, Liang BA, Lovett KM. Waking Up to the Risks of Online Direct-to-Consumer Advertising of Sleep Apnea Screening Tests. *J Clin Sleep Med*. 2012;8(1):5-6.
20. Liang, BA, <u>Mackey TK</u>. Creating Illicit Laparoscopic Appendectomy Operating Rooms Using Online Sourcing. *Am Surg*. 2012;78(4):502-503.
21. Liang BA, <u>Mackey TK</u>. Biosimilars and Patient Safety Risk: Promoting Policy Protections in the Health Delivery System. *Rev Health Care*. 2012;3(2):71-74.
22. Lovett KM, Liang BA, <u>Mackey TK</u>. Risks of Online Direct-to-Consumer Tumor Markers for Cancer Screening. *J Clin. Onc*. 2012;30(13):1411-1414.
23. <u>Mackey TK</u>, Liang BA. Integrating Biodiversity Management and Indigenous Biopiracy Protection to Promote Environmental Justice and Global Health. *Am J Pub Health*. 2012;102(6):1091-1095.
24. <u>Mackey TK</u>, Liang BA. Promoting Access to Biosimilars: A Public-Private Partnership Model for Biosimlar Development in Underserved Populations. *GaBI J*. 2012;1(2):84-88.
25. <u>Mackey TK</u>, Liang BA. Transparency in Physician-Industry Relationships: State and Federal Efforts. *Path Case Rev*. 2012;17(4):144-147.
26. <u>Mackey TK</u>, Liang BA. Global Health Policy Coordination to Address Neglected Tropical Diseases. *Trop Med Inter Health* 2012;17(9):1053-1056.
27. <u>Mackey TK</u>, Liang BA. Separating Online Piracy from Counterfeit Medicines: The Need for Policy Reform and a Call to Action. *Health Policy Tech*. 2012;1(3):120-122.
28. Liang BA, <u>Mackey TK</u>. Stem Cells, Dot-Com. *Sci Trans Med*. 2012;4(151):151cm9.
29. Liang BA, <u>Mackey TK</u>. Sexual Medicine: Online Risks to Health-The Problem of Counterfeit Drugs. *Nature Rev Urol*. 2012;9:480-482.
30. Brown M, <u>Mackey TK</u>, Liang BA. Global Health Diplomacy and Management Mechanisms of US-China Public Health Collaborations in China: Lessons for Emerging Markets. *J Comm Biotech*. 2012;18(4):44-50.
31. <u>Mackey TK</u>, Liang BA. Globalization, Evolution and Emergence of Direct-to-Consumer Advertising: Are Emerging Markets the Next Pharmaceutical Marketing Frontier? *J Comm Biotech*. 2012;18(4):58-64.
32. Liang BA, <u>Mackey TK</u>. Tipping Point: Biosimilars, Emerging Markets, and Public-Private Engagement to Promote Global Health. *J Comm Biotech*. 2012;18(4):65-74 (2012).
33. Lovett KM, <u>Mackey TK</u>, Liang BA. Evaluating the evidence: direct-to-consumer screening tests advertised online. *J Med Screen*. 2012;19:141–153.
34. <u>Mackey TK</u>, Liang BA. Brain Drain: Exploring Resource Allocation to Address Health Worker Migration and Promote Global Health. *Health Policy*. 2012;107(1):66-73.
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175. Purushothaman V, Li J, <u>Mackey TK</u>. Detecting Suicide and Self-harm Discussions Among Opioid Substance Users on Instagram using Machine Learning. *Front in Psychiatry*. 2021;12:551296.
176. Purushothaman V, Cuomo RE, Garland C, <u>Mackey TK</u>. Could age increase the strength of inverse association between ultraviolet B exposure and colorectal cancer?. *BMC Public Health*. 2021;21:1238.
177. Cuomo RE, Cai M, Shah N, <u>Mackey TK</u>. Physicians Payment in the United States between 2014 and 2018: An Analysis of the CMS Open Payments Database. *PLoS One*. 2021;16(6):e0252656.
178. Cratsley K, Brooks MA, <u>Mackey TK</u>. Refugee Mental Health, Global Health Policy, and the Syrian Crisis. *Front Public Health*. 2021; 9:676000. doi: 10.3389/fpubh.2021.676000
179. Yang J, Sou A, Faruqui A, <u>Mackey TK</u>. A Qualitative Examination of e-cigarette Use Among California Young Adults During the EVALI Outbreak. *Prev Med Rep*. 2021;24:101506.
180. Bardier C, Yang J, Li J, <u>Mackey TK</u>. Characterizing Alternative and Emerging Tobacco Product Transition of Use Behavior on Twitter. *BMC Res Notes*. 2021;14:303.
181. Haupt MR, Xu Q, Yang J, Cai M, <u>Mackey TK</u>. Network Analysis of Vaping Industry Influence and Mobilization on Facebook. *J Med Internet Res*. 2021; in press.
182. Xu Q, Yang J, Haupt MR, Cai M, Nali M, <u>Mackey TK</u>. Digital Surveillance to Identify California Alternative and Emerging Tobacco Industry Policy Influence and Mobilization on Facebook. *Int. J. Environ. Res. Public Health*. 2021;18(21), 11150; https://doi.org/10.3390/ijerph182111150
183. Shah N, Nali MC, Bardier C, Li J, Maroulis J, Cuomo RE, <u>Mackey TK</u>. Applying Topic Modeling and Qualitative Content Analysis to Identify and Characterize ENDS Product Promotion and Sales on Instagram. *Tobacco Control*. 2021; doi: 10.1136/tobaccocontrol-2021-056937, in press
184. Yang J, Cuomo RE, Purushothaman V, Nali MC, Shah N, Bardier C, Obradovich N, <u>Mackey TK</u>. Campus Smoking Policies and Smoking-related Twitter Posts Originating from California Public Universities. *JMIR Formative Res*. 2021; in press

*Denotes student where Dr. Mackey was the primary advisor
^ Indicates equal contribution by authors

Computer Science and Engineering Published Conference Papers (Total: 3)

1. Kalyanam J, <u>Mackey T</u>. Detection and Characterization of Illegal Marketing and Promotion of Prescription Drug Abuse on Twitter. *NIPS 2017 Workshop on Machine Learning for Health (ML4H).* 2017; https://arxiv.org/abs/1712.00507
2. Li J, Chen W, Xu Q, Shah N, <u>Mackey TK</u>. Leveraging Big Data to Identify Corruption as an SDG Goal 16 Humanitarian Technology. 2019 IEEE Global Humanitarian Technology Conference (GHTC), Seattle, WA, USA, 2019, pp. 1-4, doi: 10.1109/GHTC46095.2019.9033129.
3. Cai M, Li J, Nali M, <u>Mackey TK</u>. "Evaluation of Hybrid Unsupervised and Supervised Machine Learning Approach to Detect Self-Reporting of COVID-19 Symptoms on Twitter," *2021 IEEE International Conference on Communications Workshops (ICC Workshops)*, 2021, pp. 1-6, doi: 10.1109/ICCWorkshops50388.2021.9473830.

Law Review (Total: 5)

1. Liang BA, <u>Mackey TK</u>. Searching for Safety: Addressing Search Engine, Web site, and Provider Accountability for Illicit Online Drug Sales. *Am J Law Med*. 2009;35(1):125-184 [law review].
2. Liang BA, <u>Mackey TK</u>. Searching for Safety: A Reply to Cooperman and Levitt. *Am J Law Med.* 2009;35(4):687-694 [law review].
3. Liang BA, <u>Mackey TK</u>. Confronting Conflict: Addressing Institutional Conflicts of Interest in Academic Medical Centers. *Am J Law Med*. 2010;36(1):136-187 [law review].
4. <u>Mackey TK</u>, Liang BA. Off Label Promotion Reform: A Legislative Proposal Addressing Vulnerable Patient Drug Access and Limiting Inappropriate Pharmaceutical Marketing. *Univ Mich J Law Reform.* 2011; 45(1):1-54 [law review].

5.   Lovett KM, Mackey TK. Online Threats to Senior Safety: The Direct-to-Consumer Medical Marketplace and eElder Abuse. *Nat Acad Elder Law Attorneys J*. 2013;9(1):91-113 [law review].

Book Chapters (Total: 7)

1.   Liang BA, Mackey TK. "Moving from Traditional Law and Medicine to Promote Safety and Effective Risk Management." In: Patricia Iyer & Barbara Levin, eds., Nursing Malpractice 4th Edition, Tuscon, AZ: Lawyers & Judges Publishing Co., 2011:59-76.
2.   Liang BA, Mackey TK. "Preparing for Health Diplomacy Negotiations—Global Governance and the Case of Taiwan, WHO, and SARS. In: Ellen Rosskam & Ilona Kickbusch, eds., Negotiating and Navigating Global Health: Case Studies in Global Health Diplomacy." London: Imperial College World Scientific Press, 2012, 173-202.
3.   Liang BA, Mackey TK. "Addressing Illicit Online Pharmacies: Global Patient Safety and Regulatory Challenges." In: Counterfeit Medicines: Policy, Economics, and Countermeasures 75-89 (Albert Wertheimer & Perry Wang, eds. 2012).
4.   Mackey TK. "Stem Cells and Commercialization." In: Fetal Stem Cells in Regenerative Medicine (Fauza D & Bani-Yaghoub M, eds. 2014): Springer, 2016.
5.   Mackey TK, Liang BA. "Health Advertising in the Digital Age: Future Trends and Challenges." In: Digital Advertising: Theory and Research 3rd Edition 398-418 (Rodgers S & Thorson E, eds. 2017): Routledge.
6.   Cratsley KR, Wickremsinhe MN, Mackey TK. "Human Rights and Global Mental Health: Reducing the Use of Coercive Measures." In: Global Mental Health Ethics 247-268 (Dwyer, Kohrt, and Candilis, eds. 2020): Springer
7.   Mackey T. et al. Fit-for-Purpose? – Challenges and Opportunities for Applications of Blockchain Technology in the Future of Healthcare. In: Advances in Clinical Immunology, Medical Microbiology, COVID-19 and Big Data, R. Bawa (ed), Taylor Francis/Jenny Stanford Publishing, Singapore (2021) (in Press)

Book Reviews (Total: 1)

1.   Mackey TK. Who Governs Global Health? A Review of Chelsea Clinton & Devi Sridhar "Governing Global Health: Who Runs the World and Why?" (Oxford University Press). International Politics Reviews, 2017;5(2):72-76.

Conference Proceedings/Published Abstracts (Total: 6)

1.   Qassimyar R, Fischer SL, Liang BA, Mackey T. Needs Assessment of Telemedicine in Afghanistan and a Global Call for Action for an International Tri-Partnership Mechanism. 2014 Med-e-Tel Conference Proceedings, Global Telemedicine and eHealth Updates: Knowledge Resources, 2014;7:239-243.
2.   Mackey TK, Liang BA, Attaran A, Kohler JC. Health domains for sale: The need for better global eHealth governance of health information online. *Annals of Global Health:* 2014; 80(3):209-210. [published conference abstract].
3.   Cuomo RE, Mackey TK. Determining demographic risk factors for receiving counterfeit cancer drugs. *Annals of Global Health:* 2015; 81(1):65 [published conference abstract].
4.   Meacham MC, Wagner KD, Mackey T, Patterson TL, Strathdee S, Roesch S. Transitions in polydrug use among heroin and methamphetamine injectors in Tijuana, Mexico. *Drug Alcohol Depend.* 2015;(146): e36-37. [Special section: Abstracts from the 2014 annual meeting of the College on Problems of Drug Dependence].
5.   Katsuki T, Mackey TK, Cuomo RE. Digital surveillance of prescription drug abuse: An accessible methodology for collecting and analyzing twitter NUPM data. *Annals of Global Health:* 2016; 82(3):590 [published conference abstract].
6.   Aburas R, Mackey T, Najeeb A, Ba Ageel L. Foundation of a Maternity and Children's Healthcare Center for Displaced Syrians. *Annals of Global Health.* 2017; 83(1):12 [published conference abstract].

Published Co-authored Consensus Statements (Total: 2)

1.   Newton P, Bond KC, et al. Global access to quality-assured medical products: the Oxford Statement and call to action. *Lancet Global Health*. 2019;7(12):PE1609-E1611.
2.   Newton P, Bond KC, et al. COVID-19 and risks to the supply and quality of tests, drugs, and vaccines. *Lancet Global Health*. 2020; DOI: https://doi.org/10.1016/S2214-109X(20)30136-4.

Other Publications, Articles, Op Ed, etc (Total: 17)

1.   Liang BA, Mackey TK. New Cybersecurity Efforts Must Include Online Drug Sales. *Los Angeles Daily J*. 2009;Jun 4 [Op Ed].
2.   Liang BA, Mackey TK. The Green Light. *San Francisco Daily J*. 2009;Aug 7 [Op Ed].
3.   Liang BA, Mackey TK. Confronting Conflict of Interest. *Los Angeles Daily J*. 2010;Apr 7 [Op Ed].
4.   Liang BA, Mackey TK. The ABCs of Accountable Care Organizations. *Los Angeles Daily J*. 2010;May 5 [Op Ed].
5.   Liang BA, Mackey TK. Addressing Institutional Conflict of Interest to Promote Patient Safety. *Pat Safety Qual Healthcare.* 2010;7(6):36-39.
6.   Liang BA, Mackey TK. Health Care Mandates: A Reply. *Inside Higher Ed*. 2010;Nov 17 available at: http://www.insidehighered.com/views/2010/11/17/liang. [Online Article].
7.   Liang BA, Mackey TK. Pharmaceutical Marketing: A Year of Interesting Times. *Los Angeles Daily J*. 2010;Dec 22 [Op Ed].
8.   Liang BA, Mackey TK. Counseling Seniors and Caregivers on Medication Safety. *New York State Bar Ass J*. 2013;July/Aug:72-74 [Article].
9.   Liang BA, Mackey TK. Social Media and Drug Advertising: Information and Warnings for Physicians and Patients. *San Diego Physician*. 2011;98(6):28 [Article].
10. Liang BA, Mackey TK. Internet Drug Pushers Targeting Teens: One Click Away from a Bad Decision. *Res Ispa*. 2013;14(1):3 [Article].
11. Mackey TK, Liang BA, Kubic T. Dangerous Doses: Fighting Fraud in the Global Medicine Supply Chain. *Foreign Affairs*. 2012; May 14 [Featured Article].
12. Contreras JT, Mackey TK, Liang BA. Global Amalgam Governance: The Need for Clinician Leadership. *Inside Dentistry*. 2014;10(1) Jan; Available at: http://www.dentalaegis.com/id/2014/01/global-amalgam-governance-need-for-clinician-leadership. [Viewpoint Article].
13. Kohler JC, Mackey TK. Treating Health and Pharmaceutical Corruption: The Need for a Multistakeholder UN Partnership Framework. *International Affairs Forum*. 2016;7(2):57-60; Available at: http://ia-forum.org/Files/Fall%202016%20IA%20Forum.pdf.
14. Mackey TK. Are we making progress in the fight against fake medicines? *STAT News*. December 1, 2017; Available at: https://www.statnews.com/2017/12/01/fake-medicines-who-surveillance/. [First Opinion article].
15. Lopez V, Mackey TK. "The Health of Dreamers" *Health Affairs Blog*, February 13, 2018. DOI: 10.1377/hblog20180209.367466. Available at: https://www.healthaffairs.org/do/10.1377/hblog20180209.367466/full/
16. McDougal T, Mackey TK. "How black markets have adapted to – and shaped – the COVID-19 crisis." *Vision of Humanity Blog*, The Institute for Economics and Peace, June 3, 2020, at: http://visionofhumanity.org/economists-on-peace/how-black-markets-have-adapted-to-and-shaped-the-covid-19-crisis/
17. Mackey TK. "COVID-19: A Cyber Syndemic?" *The Brand Protection Professional*. 2020;5(2) available at: https://bpp.msu.edu/magazine/covid-19-a-cyber-syndemic/
18. Mackey TK. "Risk of Cyber Superspreaders and Influencers on Product Integrity: COVID-19 and Beyond" *The Brand Protection Professional*. 2020;5(4) available at: https://bpp.msu.edu/magazine/risk-of-superspreaders-and-influencers-on-product-integrity-covid19-and-beyond-december2020/

TEACHING (UCSD – Quarter System)

Class Title	Program	Term(s)
Global Health Policy A: Foundations (HLAW209A) (2 units)	MAS, Health Policy and Law (UCSD/CWSL), Graduate course	Spring 2012 Fall 2012, 2013, 2014
Global Health Policy A: Foundations (HLAW219A) (3 units)	MAS, Health Policy and Law (UCSD/CWSL), Graduate course	Fall 2015
Global Health Policy B: Politics, Planning, and Preparedness (HLAW209B) (2 units)	MAS, Health Policy and Law (UCSD/CWSL), Graduate course	Winter 2013, 2014, 2015
Global Health Policy B: Advanced Topics (HLAW219B) (3 units)	MAS, Health Policy and Law (UCSD/CWSL), Graduate course	Spring 2016, Spring 2017
Global Health Policy C: Special Topics (HLAW209C) (2 units)	MAS, Health Policy and Law (UCSD/CWSL), Graduate course	Spring 2013, 2014, 2015
Current Topics in Health Policy & Law (HLAW213) (3 units)	MAS, Health Policy and Law (UCSD/CWSL), Graduate course	Winter 2014
Foundations in Law & Medical/Healthcare Practice (HLAW211) (3 units)	MAS, Health Policy and Law (UCSD/CWSL), Graduate course	Fall 2014, Fall 2015
Special Topics: Health Policy Writing Workshop (HLAW212) (2 units)	MAS, Health Policy and Law (UCSD/CWSL), Graduate course	Summer 2015, Summer 2016, Summer 2017
Special Topics: Innovation, Regulatory and Issues in Biomedical Sciences Series: Developments in Policy and Regulation (HLAW212)	MAS, Health Policy and Law (UCSD/CWSL), Graduate course	Summer 2017

Global Health Policy (GLBH160) (4 units)	Global Health Program, Department of Anthropology (UCSD), Upper Division Undergraduate Course	Fall 2018, Fall 2019, Winter 2020, Winter 2021
Global Health Policy – B: Advanced Topics (GLBH260) (4 units)	Global Health Program, Department of Anthropology (UCSD), Masters Degree in Global Health Program	Fall 2019, Fall 2020
Applied Topics in Scientific Communication (CLRE270) (2 units)	MAS, Clinical Research (UCSD), Graduate Course	Winter 2019, 2018, Summer 2018, 2021
Special Topics: Blockchain Applications in Healthcare (HLAW212)	MAS, Health Policy and Law (UCSD/CWSL), Graduate course	Spring 2018
Global Health Capstone Seminar I (GLBH150A)	Global Health Program, Department of Anthropology (UCSD), Upper Division Undergraduate Course	Winter 2019
Global Health Capstone Seminar II (GLBH150B)	Global Health Program, Department of Anthropology (UCSD), Upper Division Undergraduate Course	Spring 2019
Topics/Operations & Technology: Power of Blockchain (MGT449)	Rady School of Management, Elective Course (full-time and part-time MBAs)	Spring 2019, Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021

CONTINUING EDUCATION AND WORKSHOPS

Event Title	*Program*	*Role, Term(s)*
Navigating the Genomic Regulatory Landscape (BIOL-40328 - professional workshop) (1.5 credits)	UC San Diego Extension	Organizer and Instructor (Summer 2017)
Blockchain Applications in Healthcare (BIOL-40334 - professional workshop) (1.5 credits)	UC San Diego Extension	Organizer and Instructor (Spring 2018)

Expert Strategies and Skills for Medical and Scientific Communication (FPM-40655 – professional workshop) (1 unit)	UC San Diego Extension	Organizer and Instructor (Summer 2019)
Combatting Corruption and Promoting Equity in the Health Sector (non-credit)	UC San Diego Extension University of Toronto	Organizer and Instructor (Summer 2019)
Introduction to Digital Health (GLBH-40020, 3 units)	UC San Diego Extension	Instructor (Winter 2020, Summer 2020, Spring 2021)

TEACHING (Non-UCSD/Online)

Class Title	Program	Term(s)
Global Health Policy (online course) (1.5 ECTS)	Elevate Online Learning Platform – UMC Utrecht – UC San Diego Extension	Fall 2016

GRADUATE STUDENT ADVISING

University of California, San Diego (completed and current Doctoral students)

Trainee Name	Type/Training Period	Thesis Title	Role
Raphael E. Cuomo	PhD student in Public Health, Global Health track (completed December 2016)	Access and Affordability of Cancer Drugs in International Settings	Dissertation committee co-Chair
James Balcius	PhD student in Public Health, Global Health track (completed June 2017)	Military Humanitarian Civic Assistance Missions: Resource Use, Coordination, and Governance to Improve Global Health	Dissertation committee member
Janani Kalyanam	PhD student in Department of Electrical and Computer Engineering (completed June 2017)	Machine Learning Methods Applied to Social Media	Dissertation committee member

University of California, San Diego (completed Masters students, 2012-present, *denotes a project

that was published in an academic journal, ^denotes project presented as oral or poster presentation)

Trainee Name	Type/Training Period	Thesis Title	Role
Rebecca Donham	MA, Global Health (UCSD) (2021)	For and by Communities: An Assessment of Feasibility for a Novel International Healthcare Program in Rural Ghana and Nigeria	Committee Member of Masters Thesis
Cortni Bardier	MA, Global Health (UCSD) (2020)	Detecting Electronic Cigarette User Disparity Behaviors: An Infovelliance Study on Twitter	Co-chair of Masters Thesis
Alessandra Pol	MAS, Clinical Research (UCSD) (2019)	The Cost- Effectiveness Analysis of the MiniMed 670G Closed-Loop system Versus Continuous Subcutaneous Insulin Infusion Type-1 Diabetes	Chair of ISP
Nicole Syed	MAS, Clinical Research (UCSD) (2019)	The Heart Failure Readmissions Rate Project (HFRRRP)	Chair of ISP
Javier Chavez*	MAS, Clinical Research (UCSD) (2019)	Comparing Regenerative Medicine Practices in San Diego and Tijuana Using Online Marketing Data	Chair of ISP
Anne Shapiro	MAS, Health Policy and Law (UCSD/CWSL) (2019)	A Structured Search for Illegal Online Sale of Fertility Medications and Implications for Consumers	Chair of Capstone Project (ISP)
Ohoud Alsaedi	MAS, Clinical Research (UCSD) (2019)	Quality of life in Autoimmune Bullous Diseases (AIBD) Measured with the ABQOL questionnaire: A Meta-Analysis	Chair of ISP

Bonnie Crouthamel	MAS, Clinical Research (UCSD) (2019)	Out-of-clinic and self-managed abortion in Bangladesh: menstrual regulation provider perspectives	Chair of ISP
Vidya Purushothaman	MAS, Clinical Research (UCSD) (2019)	Could age increase the strength of inverse association between UVB exposure and colorectal cancer?	Chair of ISP
Leisa Sutton	MAS, Health Policy and Law (UCSD/CWSL) (2019)	Breakthrough Therapy Designation: Delving into how accelerated approval has transformed hematology and oncology drugs from 2012 – 2018	Chair of Capstone Project (ISP)
Arzomanaza Sediqi	MAS, Health Policy and Law (UCSD/CWSL) (2018)	Establishing a Robust Framework for Opioid Monitoring, Evaluation and Intervention Using Community Based Best Practices	Chair of Capstone Project (ISP)
Sarah Sumlin-Gao	MAS, Health Policy and Law (UCSD/CWSL) (2018)	The Opioid Epidemic: Mothers, Babies, and Neonatal Abstinence Syndrome, a Comparative Assessment of US Responses	Chair of Capstone Project (ISP)
Tiffany So	MAS, Clinical Research (UCSD) (2018)	Positive Traits in the Bipolar Spectrum	Chair of ISP
Qing Xu*	MAS, Health Policy and Law (UCSD/CWSL) (2018)	Charity, Health, and Chinese Corruption: A Review of the Literature, Government Documents, Public Databases, and Law	Chair of Capstone Project (ISP)
Shahella Shakeel*	MAS, Health Policy and Law (UCSD/CWSL) (2017)	Achieving the End Game: Policy and Diplomacy Approaches to Eradicate Polio in Pakistan	Chair of Capstone Project (ISP)

Luis Espejo	MAS, Health Policy and Law (UCSD/CWSL) (2017)	Conflict-driven Brain Drain of Medical Professionals in Peru Under the Fujimori Regime	Chair of Capstone Project (ISP)
Cheree Neuroth	MAS, Health Policy and Law (UCSD/CWSL) (2017)	Abuse-Deterrent Formulations as a Possible Solution to Address the Nation's Prescription Opioid Epidemic	Chair of Capstone Project (ISP)
Badr Alhemayyed	MAS, Health Policy and Law (UCSD/CWSL) (2017)	Antibiotic Resistance and the GAIN Act	Chair of Capstone Project (ISP)
Gloria Torres Cortes*	MAS, Health Policy and Law (UCSD/CWSL) (2017)	Surrogate Motherhood Regulation in South American Countries: A Need for an International Legal Framework	Chair of Capstone Project (ISP)
Ekaete Udoh	MAS, Health Policy and Law (UCSD/CWSL) (2017)	Telemedicine: A Sustainable Platform to Mitigate the Negative Impact of Brain Drain in Sub-Saharan Africa?	Chair of Capstone Project (ISP)
Camille Guerra*	MAS, Health Policy and Law (UCSD/CWSL) (2017)	Legal Analysis of U.S. Criminal and Civil Prosecutions Associated with Illicit Online Pharmacies	Chair of Capstone Project (ISP)
Jessica Jue*	MAS, Health Policy and Law (UCSD/CWSL) (2017)	The Surgical Black Box: Legal and Regulatory Implications	Chair of Capstone Project (ISP)
Sangita Baxi*	MAS, Health Policy and Law (UCSD/CWSL) (2016)	Proposal for an Essential Cancer List (ECL) to Facilitate Access and Affordability to Cancer Treatment	Chair of Capstone Project (ISP)

Mohanad Aleeban*	MAS, Health Policy and Law (UCSD/CWSL) (2016)	Public Health Hazards During Hajj: Time for Visa Policy Reform	Chair of Capstone Project (ISP)
John Annaloro*	MAS, Health Policy and Law (UCSD/CWSL) (2016)	The United Kingdom's Withdrawal from the European Union & Subsequent Impact to UK-based Biomedical Industry	Chair of Capstone Project (ISP)
Teresa Tharp	MAS, Health Policy and Law (UCSD/CWSL) (2016)	Rabies: Assessing Economic and Political Determinants	Chair of Capstone Project (ISP)
Cameron Casey	MAS, Clinical Research (UCSD) (2016)	Characteristics of Electronic Nicotine Delivery Systems by Analyzing Trial Data on Clinicaltrials.gov, 2004-2015	Committee Member (ISP)
Asmita Arora^	MAS, Clinical Research (UCSD) (2016)	United Nations Non-Communicable Diseases High Level Meeting 2011-Measuring the Impact	Committee Member (ISP)
Michelle Dinh-Tran	MAS, Health Policy and Law (UCSD/CWSL) (2016)	Mental Health Social Stigma Services for College Undergraduates: Building Consensus on Best Practices	Chair of Capstone Project (ISP)
Mena Alsaraf*	MAS, Health Policy and Law (UCSD/CWSL) (2015)	Child-Resistant Packaging for Liquid Nicotine: Are Current State and Federal Responses Adequate?	Chair of Capstone Project (ISP)
Sogol Setayesh*^	MAS, Health Policy and Law (UCSD/CWSL) (2015)	The Role of Sanctions in Creating a Medical Shortage Crisis in Iran	Chair of Capstone Project (ISP)

Sumaira Akbarzada*^	MAS, Health Policy and Law (UCSD/CWSL) (2015)	The Invisible Crisis in Syria: The Medical Demise of the Internally Displaced Person in a Devastated Health System	Chair of Capstone Project (ISP)
Yama Meerzada	MAS, Health Policy and Law (UCSD/CWSL) (2015)	Comparative Analysis of Electronic Cigarette Regulation: US v. UK	Chair of Capstone Project (ISP)
Lorna Gerlt	MAS, Health Policy and Law (UCSD/CWSL) (2015)	Cross Border Health Care Coverage in Southern Californians- A Fundamental Shift in Primary Care Via Mexico Based Health Care Plans	Chair of Capstone Project (ISP)
Sholeh Azar*	MAS, Health Policy and Law (UCSD/CWSL) (2015)	Crowdfunding: A New Opportunity for Biotechnology Startups?	Chair of Capstone Project (ISP)
Gale Schlesinger	MAS, Health Policy and Law (UCSD/CWSL) (2015)	Global Sunshine? The Emergence of Payment Disclosure Laws in Health Care	Chair of Capstone Project (ISP)
Christy Foster Bollman*	MAS, Health Policy and Law (UCSD/CWSL) (2015)	Requiring Targeted Informed Consent to Inject Gadolinium into Patients with a Compromised eGFR	Chair of Capstone Project (ISP)
William Pascoe	MAS, Health Policy and Law (UCSD/CWSL) (2015)	The Global Legal, Ethical, and Governance Challenges of Transnational Commercial Surrogacy	Chair of Capstone Project (ISP)
Angela Y. Miner*^	MAS, Health Policy and Law (UCSD/CWSL) (2015)	A Mapping of Internet Electronic Cigarette Vendors: Identifying Key Characteristics and Regulatory Gaps	Chair of Capstone Project (ISP)

Virginia J. Schoenfeld*	MAS, Health Policy and Law (UCSD/CWSL) (2015)	Going Social to Access Lifesaving Treatments: Examination of Social Media Use for Pharmaceutical Compassionate Use Access	Chair of Capstone Project (ISP)
Anthony J. Rippo	MAS, Health Policy and Law (UCSD/CWSL) (2014)	Regulating Mobile Medical Applications: It's Time to Get the Balance Right	Chair of ISP
Johanna M. Schandera*^	MAS, Health Policy and Law (UCSD/CWSL) (2014)	Controversy of Three-Parent IVF for Prevention of Transmission of Mitochondrial Disease: A Comparative Policy Analysis	Chair of ISP
Allison C. Anderson*^	MAS, Health Policy and Law (UCSD/CWSL) (2014)	Mapping of Health Promotion and Education Programs Addressing Public Health Dangers of Illicit Internet Pharmacies	Chair of ISP
Ashley N. Archer-Hayes	MAS, Health Policy and Law (UCSD/CWSL) (2014)	Organ Donor Discrimination: A Proposal to Modify the Current Health and Human Services Public Health Guidelines for the Center for Disease Control and Prevention's "High Risk" Organ Donor Classification Criteria	Chair of ISP
Linda M. Shinn	MAS, Health Policy and Law (UCSD/CWSL) (2014)	Beyond the Bedside: The Evidence for Nursing Malpractice and Liability Education for the Perinatal Nurse	Chair of ISP
John T. Contreras*	MAS, Health Policy and Law (UCSD/CWSL) (2014)	Mercury Use in Dental Amalgam: Health and Environmental Concerns	Chair of ISP
Romana Qassimyar*	MAS, Leadership of Healthcare Organizations (UCSD) (2013)	Needs Assessment of Telemedicine in Afghanistan and a Global Call for Action for an International Tri-Partnership Agreement	Chair of Capstone

Nozomi Yagi*^	MAS, Health Policy and Law (UCSD/CWSL) (2013)	Trend Analysis in Prescription Drug Coupons (PDCs)	Co-Chair
Pariya Ghayyem	MAS, Health Policy and Law (UCSD/CWSL) (2013)	Drug Labeling Laws: Patient and Manufacturing Consequences	Committee Member

OTHER STUDENT ADVISING

Trainee Name	Type/Training Period	Project Title	Role
Chenna Basavapatna-shankar	Graduate student (UC San Diego – Computer Science and Engineering Department) (Fall 2021)	Prototyping a Blockchain Indigenous Data Sovereignty Framework on Ethereum	Special Projects Mentor (CSD293)
Wen Hao Chen	Graduate student (UC San Diego – Computer Science and Engineering Department) (Spring 2019)	Developing a Data Dashboard to Report Illegal Drug Sales via Social Media	Special Projects Mentor (CSE293)
Mingxiang Cai	Graduate student (UC San Diego – Computer Science and Engineering Department) (Winter 2019)	Machine Learning to Detect and Characterize HIV Outbreak Investigations	Special Projects Mentor (CSE293)
Anh Vo	Undergraduate student (UC San Diego – Global Health Program) (Spring 2018)	Global Health Policy Assessment of Circumpolar Health	Research Independent Study Mentor (GLBH199)
Hisashi Kato	Graduate student (UC San Diego – Global Policy & Strategy School) (2017-2018)	Global Strategies of Longevity Nation – Strength and Limitations of Japanese Global Health Diplomacy	Research Independent Study Mentor (GPGN499)

Rupa Prasad	Medical Resident (UC San Diego – Scripps Health) (2017-2018)	Healthcare Professional Access Variation in state PDMPs	Research Mentor
Nicole Horton	Undergraduate student (UC San Diego) (2016)	Exploring Organized Crime Network Dynamics of Online Pharmacies	Research Independent Study Mentor

RESEARCH GRANT/CONTRACT PARTICIPATION (ACTIVE)

Project	Investigator(s)	Type	Amount	Period	Agency
Cornelius Hopper Award for "Digital Mixed Methods to Identify and Characterize Vaping Illness in Young Adults in California"	TK Mackey (PI) A Calac (PhD Trainee)	Diversity Award Supplement	$42,515	2021-2023	TRDRP Program
"Examining Associations between Misinformation Spread, Empathy, and Narcissism Online Across COVID-19 Discourse using Big Data and Social Network Analysis"	TK Mackey (PI) S Coulson (Co-I) M Haupt (GSR)	Seed Grant	$30,000	2021-2022	UCSD Center for Empathy and Technology
PROPEL Award (Publication Resources Offered to Promote Emerging Leaders)	TK Mackey (PI)	Research Award	$5,000	2021-2021	Center for AIDS Research, San Diego
"Big Data and Machine Learning Study to Detect and Characterize Fraudulent Online Sales of COVID-19-related Health Products on YouTube"	TK Mackey (PI)	Sponsored Research Agreement	$52,200	2020-2021	Google LLC

"Using Big Data, Machine Learning, and Infoveillance Approaches to Detect and Characterize Adoption and Adherence to PrEP Therapy Among Minority Populations"	TK Mackey (PI) S-3 Research LLC	FDA Broad Agency Announcement Contract (75F40120C00181)	$104,500	2020-2022	U.S. Food and Drug Administration
"Big Data Social Surveillance Security Solution to Detect and Report Illicit Online Sales of Controlled Substances"	TK Mackey (PI) S-3 Research LLC	SBIR Contract Phase II (N44DA-20-1128)	$1,499,999	2019-2020	National Institute on Drug Abuse (NIH/NIDA)
"Digital Mixed Methods to Identify and Characterize Vaping Illness in Young Adults in California"	TK Mackey (PI) J Yang (co-I)	High Impact Pilot Research Grant	$547,637	2020-2022	TRDRP Program
"Using Machine Learning to Detect and Characterize Synthetic Psychoactive Drug Digital Marketing and Distribution"	TK Mackey (PI) RE Cuomo (Co-I)	NIH – NIDA R21 Exploratory/Development Grant	$433,594	2020-2022	National Institute on Drug Abuse
"Global Governance of Corruption – A Novel Investigation of Hard and Soft Law through the Lens of the Pharmaceutical Sector"	JC Kohler (PI) SM Cadarette A Denburg E Di Ruggiero L Forman P Grootendorst Q Grundy T Lemmens J Lexchin A McGahan K Moscou A Thompson MA Gagnon TK Mackey N Persaud T Vian	LDFP New Initiative and Innovation Award – Connaught Global Challenge Award	$249,400	2020-2022	University of Toronto

Project	Investigator(s)	Type	Amount	Period	Agency
"Underlying Attributes of Regions with Differential COVID-19 Spread"	RE Cuomo (PI) TK Mackey (co-I) J Li (personnel)	UCOP CA HIV/AIDS Research Program	$25,000	2020	University California Office of the President
"International Collaboration for 'Living Healthy' After Earthquake Disasters"	G Nakano (PI) Y Ito (co-I) TK Mackey (co-I) P Sugimoto (co-I) A Iglesias (co-I) V Atienza (co-I) T Sanchez (co-I) L Curau (co-I)	Kyoto University SPIRITS Grant (International Projects)	¥2,000,000	2020-2022	Kyoto University
"Digital Surveillance to Identify Alternative and Emerging Tobacco Industry Mobilization and Influence"	TK Mackey (PI) D Strong (co-I)	High Impact Pilot Research Grant	$497,693	2019-2021	TRDRP Program
"A Digital Mixed Methods Evaluation of University Tobacco-free Policies"	J Yang (PI) TK Mackey (co-I)	High Impact Pilot Research Grant	$250,000	2019-2021	TRDRP Program

RESEARCH GRANT PARTICIPATION (COMPLETED)

Project	Investigator(s)	Type	Amount	Period	Agency
"Study to Explore Blockchain's Role in Medicare / Medicaid Fraud Detection"	TK Mackey (PI) J Short (co-I) K Miyachi (co-I)	Research Gift	$50,000	2019-2020	San Diego Supercomputer Center, BlockLAB

"Study to Explore the Practical Interplay between On-Chain and Off-Chain Services in Blockchain"	TK Mackey (PI) S Sivagnanam (Co-PI) J Short (co-I) K Miyachi (co-I)	Research Gift	$76,354	2019-2020	San Diego Supercomputer Center, BlockLAB
"Using Infoveillance and Machine Learning to Characterize the Intersection between Substance Abuse and Mental Health in College-aged Populations"	TK Mackey (PI) D Ziedonis (Co-I) R Cuomo (Co-I)	Pilot Grant	$15,000	2019-2020	UCSD Institute for Public Health
"Global Health Policy and Diplomacy"	Oladele Ogunseitan (PI) TK Mackey (Co-I/Team Member)	Course Development Grant	$86,000	2019-2020	UCOP Innovative Learning Technology Initiative
iCorps option SBIR Phase 1 contract number: 75N95019C00069	TK Mackey (PI) BA Liang (co-I) S-3 Research LLC	SBIR Contract iCorps Option	$55,000	2019-2020	National Institute on Drug Abuse (NIH/NIDA)
"Big Data Social Surveillance Security Solution to Detect and Report Illicit Online Sales of Controlled Substances"	TK Mackey (PI) BA Liang (co-I) S-3 Research LLC	SBIR Contract Phase I (N43DA-19-1228)	$224,864	2019-2020	National Institute on Drug Abuse (NIH/NIDA)
"A Multidisciplinary Analysis of Quality of Antibiotics Sold Online Using Web Forensics and Mass Spectrometry"	TK Mackey (PI) P. Dorrestein (co-I) N. Bandeira (co-I)	Research Grant	$63,600	2017-2019	ASOP Global Foundation

"Advancing Ethical Practices in Biomedical Citizen Science"	C. Bloss (PI) L. Irani (co-I) D. Hallin (co-I) D. Navon (co-I) TK Mackey (co-I)	Fellowship Grant (supporting graduate students)	$27,600	2018-2019	UCSD Interdisciplinary Collaboratories Fellowships
"Pilot Study to Develop Machine Learning Approaches to Detect and Classify Offers for Sale of Controlled Substances on YouTube"	TK Mackey (PI)	Pilot Grant	$28,000	2018-2019	Google LLC
"Social Surveillance Security Platform to Detect and Report Illicit Online Sales of Drugs"	TK Mackey (PI) J. Kalyanam (co-PI) S-3 Research LLC	Accelerating Innovations to Market Award	$50,000	2018-2019	UCSD Institute for Global Entrepreneur
"Exploring the 2015 Indiana HIV Outbreak using Twitter and Machine Learning"	TK Mackey (PI) T. Katsuki (co-I)	Developmental Award (Grant)	$50,000	2017	UC San Diego Center for AIDS Research
"Data Mining Strategies for Examining Impact of Twitter on Youth and Adolescent Prescription Drug Abuse"	TK Mackey (PI) T. Katsuki (co-I)	Research Grant	$27,500	2015-2016	Alliance for Safe Online Pharmacies
"Access and Affordability of Cancer Drugs in International Settings"	TK Mackey (PI) RE Cuomo (PhD Student) T.Novotny; D.Strong; C.Garland, G.McCord (co-I)	Grant (graduate student support)	$25,000	2015-2016	UC San Diego – Frontiers of Innovation Scholars Program

"Counterfeit Avastin: Health Policy and Legal Analysis to Improve Cancer Patient Safety and Public Health"	TK Mackey (PI)	Grant	$30,000	2013-2015	American Cancer Society
"Impact of Drug Policy Reform on the HIV Risk Environment among IDU's in Tijuana: Assessment of Polydrug Abuse and Policy"	SA Strathdee (Parent Grant –PI) TK Mackey (PI-supplement)	Grant (NIH Investigator Diversity Supplement)	$137,950 (Awarded but funding was not appropriated)	2014-2015	National Institutes of Drug Abuse (NIH/NIDA)
"Tough on Fakes, Tough on Crime: A Multi-disciplinary Study of Criminally Falsified Products that Threaten Public Safety"	TK Mackey (sub-contractor)	Sub-contract	$23,000	2013-2014	Social Science and Humanities Research Council of Canada
Horowitz Foundation for Social Policy Research Grant	TK Mackey (PI)	Grant	$7,500	2013-2014	Horowitz Foundation
"Analysis of Unsafe Medicines in the Global Supply Chain"	TK Mackey (PI) BA Liang (Co-PI)	Grant	$22,000	2013	Pharmaceutical Security Institute
U.S. Speaker and Specialist Grant	TK Mackey (PI)	Grant	$15,000	2013	U.S. Department of State Bureau of International Information Programs
Golden Key Research Grant	TK Mackey (PI)	Grant	$1,000	2013	Golden Key International Honour Society
UCSD Open Access Fund Pilot	TK Mackey (PI)	Grant	$2,000	2013-2014	UC San Diego

ACADEMIC AND PROFESSIONAL PRESENTATIONS (Total: 280)
REFFERED ORAL PRESENTATIONS (Total: 36)

1. Mackey TK, Liang BA. Preparing for Health Diplomacy Negotiations in Global Governance – The Failed Case of Taiwan, WHO, and SARS. 2010 Consortium of Universities for Global Health Annual Meeting (Global Health Conference), University of Washington, Seattle, WA, Sep 21, 2010.
2. Mackey TK, Liang BA. Off Label, Off Limits?: Assessing the Regulation, Debate, Enforcement and Potential Policy Considerations of Off-Label Promotion. 2011 SDSU Student Research

Symposium, SDSU, San Diego, CA, Mar 4, 2011.

3. <u>Mackey TK</u>, Liang BA. Off Label, Off Limits?: Assessing the Regulation, Debate, Enforcement and Potential Policy Considerations of Off-Label Promotion 2011 California State University Student Research Competition, CSU Fresno, Fresno, CA, May 7, 2011.

4. <u>Mackey TK</u>, Liang BA. eDTCA 2.0: Global Regulation and Public Health Issues Associated with Interactive Internet Media. 2011 American Public Health Association Annual Meeting, Washington D.C., Oct 31, 2011.

5. <u>Mackey TK</u>, Liang BA. Lessons from SARS and H1N1/A: Employing a WHO-WTO Forum to Ensure Balance in Economic and Public Health Actions in Emergency Response. 2011 American Public Health Association Annual Meeting, Washington D.C., Nov 1, 2011.

6. <u>Mackey TK</u>, Liang BA. Prevalence and Global Health Implications of Social Media in Direct-to-Consumer Advertising. 2011 Global Health Conference Annual Meeting, Montreal, Canada, Nov 13, 2013.

7. <u>Mackey TK</u>, Liang BA. Learning Lessons from Disease Outbreaks and the Revised International Health Regulations: A Joint WHO-WTO Forum to Ensure Balance in Economic and Public Health Actions in Emergency Response. 2011 Global Health Conference Annual Meeting, Montreal, Canada, Nov 13, 2013.

8. <u>Mackey TK</u>, Liang BA. Advocating for Public Private Partnerships in Surveillance, Enforcement and Prevention of Illicit Online Drug Sales and Exploring Impacts on One Health. Global Risk Forum 2012, Davos, Switzerland, Feb 21, 2012.

9. <u>Mackey TK</u>, Liang BA. Stemming Brain Drain: Exploring Global Health Policy Solutions for Imbalances in International Health Migration. Global Risk Forum 2012, Davos, Switzerland, Feb 22, 2012.

10. <u>Mackey TK</u>, Liang BA. Challenges in Global Health Governance: Combating Dangerous Medicines in the Digital Global Drug Supply Chain. UC Global Health Day 2012, UC Berkeley, CA, Feb 4, 2012.

11. <u>Mackey TK</u>, Liang BA. Global Governance Policy for Brain Drain: Promoting Health Equity and Justice Through Reallocation of Resources. 13th World Congress on Public Health Annual Meeting, Addis Ababa, Ethiopia, Apr 24, 2012.

12. <u>Mackey TK</u>, Liang BA. Lessons from SARS, H1N1/A and the Revised International Health Regulations. 13th World Congress on Public Health Annual Meeting, Addis Ababa, Ethiopia, Apr 26, 2012.

13. <u>Mackey TK</u>, Liang BA. Digital Direct-to-Consumer Advertising: Current Debate and Prevalence of Use Among Industry and Illicit Online Pharmacies. 2012 Pharmaceutical Management Science Association Annual Meeting, Anaheim, CA, May 22, 2012.

14. <u>Mackey TK</u>. Tobacco Control and Trade: International Legal Arguments in Support of a Tobacco Exemption in the TPPA. 13th Round of Negotiations of Trans-Pacific Partnership Agreement, San Diego, CA, Jul 2, 2012.

15. <u>Mackey TK</u>, Liang BA. Risk Assessment of Direct-to-Consumer Social Media Advertising for Illicit Online Drug Sales. Medicine 2.0 12' Conference, Boston, MA, Sep 16, 2012.

16. <u>Mackey TK</u>, Liang BA. Direct-to-Consumer Social Media Advertising Risk Assessment Study for Illicit Online Drug Sales. 2013 Medicine X Conference, Palo Alto, CA, Sep 29, 2012.

17. <u>Mackey TK</u>, Liang BA, Novotny TE. Evolution of Tobacco Labeling and Packaging: Global Health Governance and Trade Policy. 2012 American Public Health Association Annual Meeting, San Francisco, CA, Oct 30, 2012.

18. <u>Mackey TK</u>, Liang BA. Searching for Better Global health Governance for Dangerous Counterfeit Medicines. 2012 American Public Health Association Annual Meeting, San Francisco, CA, Oct 31, 2012.

19. <u>Mackey TK</u>, Novotny TE. Amending the Helms-Biden Act: A Pathway to Promote Better Global Health Diplomacy and Governance. UC Global Health Day 2013, UC Riverside, CA, Feb 23, 2013.

20. <u>Mackey TK</u>, Yagi N, Liang BA. Japan-Philippines Economic Partnership Agreement (JPEPA) – Analysis of a Failed Trade and Nurse Migration Policy. 2013 American Public Health Association Annual Meeting, Boston, MA, Nov 2, 2013.

21. <u>Mackey TK</u>, Balcius J, Brown M, Kevany S. 21st Century Global Health Diplomacy [breakout Session] presented "Counterfeit Medicine Diplomacy: A Case Study in Global Health Diplomacy and Governance." 2014 UC Global Health Day 2014, UC Davis, CA, April 26, 2014.

22. <u>Mackey TK</u>, Liang BA, Kohler JC, Attaran A. Global Challenges to eHealth: The .health Case Study and the Need for Better eHealth Governance. Fifth Annual Global Health Conference, Washington DC, May 10, 2014.
23. <u>Mackey TK</u>. Counterfeit Medicines Surveillance: Using GIS to Conduct Surveillance and Geospatial Analysis on Counterfeit Anti-Cancer Drug Avastin Cases. 2014 Esri User Conference, San Diego, CA, July 13, 2014.
24. <u>Mackey TK</u>, Liang BA, Kohler JC, Attaran A. Health Domains for Sale: The Need for Health Governance on the Internet. 2014 American Public Health Association Annual Meeting, New Orleans, LA, Nov 17, 2014.
25. <u>Mackey TK</u>, Cuomo RE, Guerra C. Counterfeit Avastin: A Multidisciplinary Global Health Assessment of Counterfeit Cancer Medicines [breakout session]. UC Global Health Day 2015, UCLA, Los Angeles, USA.
26. <u>Mackey TK</u>, Schandera J. Controversy of Three-Parent IVF for Prevention of Transmission of Mitochondrial Disease: A Comparative Policy Analysis. 2015 American Public Health Association Annual Meeting, Chicago, IL, Nov 4, 2015
27. <u>Mackey TK</u>, Liang BA, Cuomo R, Hafen R, Lee D, Brouwer K. Emerging and Reemerging Neglected Tropical Diseases: Review of Key Characteristics and Risk Factors. 2015 American Public Health Association Annual Meeting, Chicago, IL, Nov 4, 2015
28. <u>Mackey TK</u>. Corruption in Global Health: Scope, Diversity, Case Studies, and Legal Frameworks. Concurrent Session "Are Current Anti-Corruption Tools in the Health Sector Good Enough for Health Security", 7th Annual Global Health Conference, San Francisco, CA, Apr 9, 2016.
29. <u>Mackey TK</u>, Annaloro J. Trade, Regulatory and Policy Implications for the Healthcare and Biotechnology Industry Post-Brexit. 2017 American Public Health Association Annual Meeting, Atlanta, GA, Nov 7, 2017.
30. <u>Mackey TK</u>, Kalyanam J, Katsuki T, Lanckriet G. "Rogue" Detection: Machine Learning to Detect Prescription Opioid Abuse Promotion and Access via Twitter. 2017 American Public Health Association Annual Meeting, Atlanta, GA, Nov 8, 2017.
31. <u>Mackey TK</u>. Rogue Detection: Emerging Methods, Technologies, and Challenges to Detect Illegal Sale of Controlled Substances Online. PRISM Health Symposium 2017, UC San Francisco, CA, Dec 8, 2017.
32. <u>Mackey TK</u>, Kalyanam J, Klugman J, Kuzmenko E, Gupta R. Team "Ryan Haight." 2017 U.S. Health and Human Services Opioid Code-a-thon. Washington D.C., Dec 7, 2017.
33. <u>Mackey TK</u>, Tuon W, Burnstan A, Nagashima M, Sanchez R. Exploring Improvements to the Health-related United Nations 2030 Sustainable Development Goals: An Interactive Workshop. UC Global Health Day 2018, San Diego, CA, April 22, 2018.
34. <u>Mackey TK</u>. Detection and Characterization of Illicit Digital Drug Dealers on Multiple Social Media Platforms using Machine Learning Approaches. Medicine X | CHANGE 2019, Stanford University School of Medicine, September 22, 2019.
35. <u>Mackey TK</u>, Li J, Chen WH, Cai M, Xu Q, Shah N. Utilizing Different Methods in Natural Language Processing and Machine Learning to Detect Illicit Drug Dealers on Instagram. 2019 American Public Health Association Annual Meeting, Philadelphia, PA, November 4, 2019.
36. <u>Mackey TK</u>. Academic Medical Writing Training and Education. Session Title: "Exploring the Diverse and Multidisciplinary Educational Ecosystem for Medical Writing". 2019 American Medical Writers Association Annual Meeting, San Diego, CA, November 8, 2019.

INVITED PRESENTATIONS (Total: 145)

1. <u>Mackey TK</u>. The Potential Policy and Public Health Considerations of Off-Label Promotion. Joint Development Committee in Health Law, San Diego, CA, Jan 20, 2010.
2. <u>Mackey TK</u>. The Dangers of Direct-to-Consumer Advertising in the Digital and Social Media Age. Joint Development Committee in Health Law, San Diego, CA, Feb 17, 2011.
3. <u>Mackey TK</u>. Promoting Online Drug Safety: Leveraging Public Private Partnerships in Surveillance, Enforcement and Prevention of Illicit Online Drug Sales. 7th Annual IHLS San Diego Health Policy Conference, San Diego, CA, Mar 25, 2011.
4. <u>Mackey TK</u>. Evolution of Globalized Pharmaceutical Marketing: Risks, Opportunities and Developments in Emerging Markets. 8th Annual IHLS San Diego Health Policy Conference, San

Diego, CA, Mar 23, 2012.

5. Mackey TK. Risk Assessment of Social Media Advertising for Illicit Online Drug Sales. 2012 UC San Diego Interdisciplinary Awards, San Diego, CA, Apr 4, 2012.

6. Mackey TK. Globalization of the Digital Drug Supply Chain: Using Public Private Partnerships to Combat the Scourge of Illicit Online Drug Sellers. UC San Diego Pat Ledden Memorial Faculty Seminar Series, San Diego, CA, Apr 11, 2012.

7. Mackey TK. Advancing Online Drug Safety: How Public-Private Partnerships Thwart Illicit Online Drug Sales. 2012 National Association of Boards of Pharmacy Annual Meeting, Philadelphia, PA, May 21, 2012.

8. Mackey TK. Globalization of the Illicit Online Drug Supply Chain: Potential Risks to Patients and Pets. 31st Annual Meeting Society of Veterinary Hospital Pharmacists, San Diego, CA, Jun 4, 2012.

9. Mackey TK. eHealth Ethics: The Online Medical Marketplace and Emerging Ethical Issues. Rady Children's Hospital Bioethics Seminar Series, San Diego, CA, Jun 12, 2012.

10. Mackey TK. PSM Original Research: A Day in the Life of Illegal Online Drug Sellers. 2012 Partnership for Safe Medicines Interchange, Washington D.C., Sep 28, 2012.

11. Mackey TK. Bioethical Issues of eHealth Ethics. Rady Children's Hospital Bioethics Seminar Series, San Diego, CA, Oct 12, 2012.

12. Mackey TK. StemCells.com: Online Direct-to-Consumer Advertising of Unauthorized Stem Cell Therapy. 9th Annual IHLS San Diego Health Policy Conference, San Diego, CA, Mar 22, 2013.

13. Mackey TK. Governance Approaches in Dealing with Forms of Health Corruption. Good Governance in Global Health Project First Meeting, University of Toronto, Toronto, Canada, Apr 15, 2013.

14. Mackey TK. Identifying Priority Areas in Global Health through Governance. Good Governance in Global Health Project First Meeting, University of Toronto, Toronto, Canada, Apr 15, 2013.

15. Mackey TK. Counterfeit Medicines Trade: Impact on Global Patient Safety, Trade and Economics, Intellectual Property, and Public Health. Roundtable hosted by The Hong Kong Association of the Pharmaceutical Industry, Hong Kong, Sep 26, 2013.

16. Mackey TK. Clear and Present Danger: Availability of Dangerous, Unapproved and Recalled Drugs Online. 2013 Partnership for Safe Medicines Interchange, Washington D.C., Oct 24, 2013.

17. Mackey TK. Global Health Policy Research: Global Health Policy Research Core, Topics, and Opportunities. UCSD Anesthesiology Update 2014, San Diego, CA, January 17, 2014.

18. Mackey TK. Health Domain Debate: The Need for Better Global eHealth Governance. UCSD Division of Global Public Health Trainee Session, San Diego, CA, February 20, 2014.

19. Mackey TK. Global Risks of Illicit Online Pharmacies and Social Media Use. UCSD Human Nature Group, San Diego, CA, February 28, 2014.

20. Mackey TK, Brown M. Workshop: Competencies for Global Health Diplomacy. Fifth Annual Global Health Conference, Washington DC, May 11, 2014.

21. Mackey TK. U.S. Health and the Internet: Case Studies for Better Global Health Governance. Department of Health and Human Services, Office of Global Affairs, Washington DC, May 13, 2014

22. Mackey TK. The Bioethics of Drug Development – You Make the Call. BIO International Convention 2014, San Diego, CA, June 23, 2014 [panelist].

23. Mackey TK. Global Health Policy: Global Health Research, MAS Anesthesia Fellow, and Global Health Policy Institute. UC San Diego – Department of Anesthesiology, Resident Education Rounds, San Diego, CA, June 25, 2014.

24. Mackey TK. After Avastin: What have we Learned, what can be done? 2014 Partnership for Safe Medicines Interchange, Washington D.C., Sep 18, 2014.

25. Mackey TK. Evolution of Emerging and Re-Emerging Infectious Disease Governance. Osher Lifelong Learning Institute, Master Class I: Plague and Pestilence, San Diego, CA, May 6, 2015.

26. Mackey TK. Introduction to Global Health Policy, Bastyr University Center for Health Policy and Leadership, San Diego, CA, May 21, 2015.

27. Mackey TK. The Ukraine Crisis: An Opportunity for Global Health Diplomacy? UCSD Division of Global Public Health Trainee Session, San Diego, CA, June 4, 2015.

28. Mackey TK. Saving Lives with Connected Devices – Diagnostics Going Digital & Remote. Procopio, Cory, Hargreaves & Savitch, LLP, San Diego, CA, Sep 23, 2015 [panelist].

29. Mackey TK. Exploring Strategies to Improve Access to Medicines for the Bottom-billion: An Examination of the Innovation Environment for Neglected Tropical Diseases. 1st Annual Making

Medicines Equal Conference, UC San Diego – School of Medicine, San Diego, CA, Oct 24, 2015.

30. Mackey TK. Counterfeit Drugs in the Legitimate Supply Chain: A Global Assessment [presented during special symposium "The Pandemic of Falsified and Substandard Medical Products: Detection Techniques and Policy Recommendations." [invited symposium] 64th Annual Meeting American Society of Tropical Medicine & Hygiene. Philadelphia, PA, Oct 27, 2015.

31. Mackey TK. Responding to the Public Health Consequences of the Ukraine Crisis: An Opportunity for Global Health Diplomacy. Session Title: "Applied Global Health Diplomacy: Linking Communities with Government for Better Health Policy and Population Health" [invited scientific session] 2015 American Public Health Association Annual Meeting, Chicago, IL, Nov 2, 2015.

32. Mackey TK. Establishing the Link Between Twitter and Prescription Drug Abuse. UCSD Human Nature Group – Public Health, San Diego, CA, Dec 2, 2015.

33. Mackey TK. Direct-to-Consumer Advertising: Debate, Evolution, Data, and Health Policy Implications. UCSD Politics of Medicine Student Guest Speaker Session, San Diego, CA, Feb 18, 2016.

34. Mackey TK. After Counterfeit Avastin: What Have We Learned and What Comes Next. Los Angeles Invited Law Enforcement Training Event – Investigative Consultants, "Illicit Pharmaceutical Trade: What is the True Danger?" Torrance, CA, Apr 5, 2016.

35. Mackey TK. Prescription Rx Tweets?: Advancing Knowledge on Digital Prescription Drug Abuse. "Taking the Pulse of Governance, Accountability, and Transparency in the Pharmaceutical Sector: Diagnosing the Issues", WHO Collaborating Centre Launch, University of Toronto, Toronto, Canada, Apr 29, 2016.

36. Mackey TK. Exploring Strategies for Medicines Access: Lessons from the Innovation and Policy Environment for Neglected Tropical Diseases "Policy & Politics Forum – Public Health Challenges for Access to New Medicines: Policy and Regulatory Options" [invited presentation and panel discussion] University Medical Center Utrecht Pharmaceutical Policy Analysis Summer Course 2016, Utrecht, Netherlands, July 14, 2016.

37. Mackey TK. Pharmaceutical [Block]chain: Disrupting the Trade in Counterfeit Medicines? [invited presentation] Medicine X, Blockchain Disrupt Workshop, Stanford University, California, Sept 14, 2016.

38. Mackey TK. Blockchain: The New Frontier in the Fight Against Counterfeit Medicines? [invited presentation] Medicine X, Stanford University, California, Sept 17, 2016.

39. Mackey TK. Global Health Policy: Challenges and Opportunities. UCSD Health Sciences International, San Diego, California, Oct 6, 2016.

40. Mackey TK. Twitter Analysis and Drug Abuse: Discussion About Data Collection, Methods, Analysis, and Recent Research. UCSD Human Nature Group – Public Health, San Diego, CA, Oct 18, 2016.

41. Mackey TK. Joint Comprehensive Plan of Actions: An Opportunity for Applied Health Diplomacy? Session Title: "Health Diplomacy: A Tool for Mobilizing the Right to Health" [invited scientific session] 2016 American Public Health Association Annual Meeting, Denver, CO, Oct 31, 2016.

42. Mackey TK. SDGs, Anti-corruption and Equity: Leave No-one Behind to Deliver on the SDGs [invited panel discussion] 17th International Anti-Corruption Conference (IACC), Panama City, Panama, December 1, 2016

43. Mackey TK. Securing the Drug Supply Chain: Using Blockchain to Fight Fake Medicines. IEEE Blockchain Summit, 2017 IEEE International Conference on Cloud Engineering, Simon Fraser University, Vancouver, British Columbia, Canada, April 4, 2017.

44. Mackey TK. Fighting Fakes with Tech: Exploring Digital Solutions to Combat Fake Medicines. Session Title: "Fake Medicines: An Unseen Threat to Global Health" [panel session] 8th Annual Global Health Conference, Consortium of Universities for Global Health, Washington DC, April 8, 2017.

45. Mackey TK. "Blockchain: Modernizing Security of the Global Drug Supply Chain" A Landscape View of Applications and Considerations of Blockchain Across Industries. IEEE Standards Association, Computer History Museum, San Jose, CA, April 25, 2017.

46. Mackey TK. Curing Health Inequalities with Technology & Social Reform. Health Technology Forum 2017, Stanford University, CA, May 2, 2017 [invited panelist].

47. Mackey TK. Publication Strategies for Clinical Trials. Curso Intensivo Administracion de Estudios Clinicos en Latinoamerica. UCSD Extension, San Diego CA, May 26, 2017.

48. <u>Mackey TK</u>. The Last Mile: Design Elements that Incentivize the Use of Blockchain Beyond Compliance. IEEE Pharma Supply Blockchain Forum, Johns Hopkins University, Rockville, MD, June 6, 2017.
49. <u>Mackey TK</u>. Blockchain for the Pharma Supply Chain [panel session]. Distributed Health 2017 Conference, September 26, 2017.
50. <u>Mackey TK</u>. Leveraging the Sustainable Development Goals to Tackle Pharmaceutical Corruption. World Health Organization Collaborating Centre on Pharmaceutical Governance, Accountability and Transparency, University of Toronto, September 29, 2017.
51. <u>Mackey TK</u>. Going Digital: A Landscape View of Digital Technologies to Combat the Fake Medicines Trade. SciX 2017 Conference, Reno, Nevada, October 9, 2017.
52. <u>Mackey TK</u>. A Landscape View of Global Health Diplomacy. Session Title: "A Landscape View on the Current and Future Pathways for Global Health Diplomacy" [invited scientific session] 2017 American Public Health Association Annual Meeting, Atlanta, GA, Nov 6, 2017.
53. <u>Mackey TK</u>. Combatting Fake Medicines: Improving Surveillance Approaches by Leveraging Technology and Policy. US FDA Committee for Advancement of Clinical and Scientific Education, FDA Headquarters, Silver Spring, MD, January 17, 2018.
54. <u>Mackey TK</u>. Opioid Infoveillance: Detecting Prescription Opioid Abuse Behavior, Marketing, and Online Sale via Twitter. Winter Quarterly Conversations in Global Health, UC San Diego Global Health Program, San Diego, CA, February 7, 2018.
55. <u>Mackey TK</u>. Blockchain for Health: Fit for Purpose? "Is Blockchain Right for Good Health? Panel." HIMSS 2018, Las Vegas, NV, March 7, 2018.
56. <u>Mackey TK</u>. Opioid Infoveillance: Intersection Between the Internet, Social Media, and the National Prescription Drug Abuse Crisis. UCSD Wellness Fair 2018, San Diego, CA, March 29, 2018.
57. <u>Mackey TK</u>. The Future of Health Policy in America. Students 4 Public Health, San Diego State University, San Diego, CA, April 17, 2018 [invited panel].
58. <u>Mackey TK</u>, Gupta A, Messinger M, Patel M. The UCGHI Advocacy Initiative: Catalyzing Student Advocacy into Action. UC Global Health Day 2018, San Diego, CA, April 22, 2018.
59. <u>Mackey TK</u>. Going Blockchain? Gauging the Potential for a Blockchain-enabled Drug Supply Chain. Cardinal Health Channel Management Forum 2018, Nashville, TN, April 25, 2018.
60. <u>Mackey TK</u>. Blockchain Fundamentals and Applications in the Healthcare Space. UCSD Blockchain and its Future Applications Event, UCSD Student Blockchain and Cryptocurrency Club, San Diego, CA, April 29, 2018 [invited panel].
61. <u>Mackey TK</u>. Expert Blockchain Panel. Healthcare X Blockchain Event, Accenture, San Francisco, CA, May 3, 2018 [invited panel].
62. <u>Mackey TK</u>. Blockchain Forum. UC San Diego: Live Well Blockchain Forum Hackathon + Incubator, San Diego, CA, May 18, 2018 [invited panel].
63. <u>Mackey TK</u>. Publicacion de Ensayos Clinicos y el Escrito Cientifico. Administracion de Estudios Clinicos en Lationamerica Curso Intensivo, San Diego, CA May 19, 2018.
64. <u>Mackey TK</u>. Dangerous Open Boarders: Policy and Law Enforcement Challenges of Drug Importation of Foreign Actors. PSM Interchange 2018, National Press Club, Washington DC, June 7, 2018 [invited panel].
65. <u>Mackey TK</u>. Social Surveillance for Opioids: A System to Detect, Classify, and Report Illicit Online Opioid Sales. FDA Online Opioid Summit, U.S. Food and Drug Administration, Silver Spring, MD, June 27, 2018.
66. <u>Mackey TK</u>. Health on 5G?: Opportunities for Transformation and Academic and Industry Expectations. IEEE 5G World Forum 2018, Santa Clara, CA, July 9, 2018.
67. <u>Mackey TK</u>. Leveraging the Potential of Blockchain in Healthcare. American College of Healthcare Executives New York Cluster, New York City, August 1, 2018 [invited panel].
68. <u>Mackey TK</u>. Exploring the Business Health Blockchain. Cardinal Health 2018 Specialty Solutions National Sales Meeting, Miami, FL, August 7, 2018.
69. <u>Mackey TK</u>. Fighting Fake Medicines: Key Characteristics, Data, Tools, and Future Directions. Roundtable on Counterfeit Drugs. USPTO Headquarters, Alexandria, August 24, 2018.
70. <u>Mackey TK</u>. Interdisciplinary Review of Digital Technologies to Combat Corruption in Medicines Procurement. WHO Writing Workshop Transparency and Accountability in the Health Sector, Geneva, Switzerland, September 11, 2018.
71. <u>Mackey TK</u>. Digital Danger: A Landscape View of the Challenges and Potential Solutions Needed

to Combat Illegal Online Pharmacies. Medicine Quality & Public Health Conference 2018, University of Oxford, Oxford, United Kingdom, September 24, 2018.

72. Mackey TK. Blockchain Policy Debate Resolve: Blockchain is Essential to Next Generation Healthcare Practice and Systems. Converge2Xcelerate Conference 2018, Columbia University, New York City, New York, October 24, 2018 [invited panel].

73. Mackey TK. Block-Education: Applying a "Fit-for-Purpose" Framework to Advance Health Blockchain Education. Converge2Xcelerate Conference 2018, Columbia University, New York City, New York, October 24, 2018 [invited panel].

74. Mackey TK. Digital Mixed Methods to Evaluate Impact of Campus Smoke Free Policies. UC San Diego Smoke/Tobacco Free Committee Meeting, UC San Diego, San Diego, October 31, 2018.

75. Mackey TK. Health Corruption, the SDGs, and Technology: A Pathway Forward? Session Title: "Tackling the Complex Disease of Corruption in Global Health" [invited scientific session] 2018 American Public Health Association Annual Meeting, San Diego, CA, Nov 12, 2018.

76. Mackey TK, Kato H. Japan's Health Diplomacy: Projecting Soft Power for Global Health Goals. Session Title: "Global Health Diplomacy: Leveraging, Science, Advocacy, and Policy to Tackle Grand Challenges in Global Health" [invited scientific session] 2018 American Public Health Association Annual Meeting, San Diego, CA, Nov 12, 2018.

77. Mackey TK. Global Health Governance and Policy Developments to Promote Access to Medicines. Session Title: "Improving Access to Medicines: The Intersection of Health Equity, Advocacy, Governance and Law" [invited scientific session] 2018 American Public Health Association Annual Meeting, San Diego, CA, Nov 13, 2018.

78. Mackey TK, Xu Q, Li J. Turning the Tide: Research and Technology Solutions to Lead the Fight Against Illicit Online Drug Sales. Alliance for Safe Online Pharmacies Research Symposium 2018, National Press Club, Washington DC, Nov 14, 2018.

79. Mackey TK. Blockchain: oportunidades en salud para la prestación de servicios, el aseguramiento, la industria farmacéutica y de dispositivos. e-salud 3rd Congreso, Botoga, Columbia, Nov 16, 2018.

80. Mackey TK. Desafíos para la innovación con TIC en Salud [invited panel]. e-salud 3rd Congreso, Botoga, Columbia, Nov 16, 2018.

81. Mackey TK. Exploring a Blockchain "Fit-for-Purpose" in the Healthcare Vertical. University of San Diego School of Business, Blockchain Seminar Series, San Diego, CA, Nov 29, 2018.

82. Mackey TK. ヘルスケア ブロックチェーン: Potential of Blockchain to Transform Healthcare. SING San Diego, Sanford Consortium for Regenerative Medicine, San Diego, CA, Nov 30, 2018 [presented in Japanese and English].

83. Mackey TK. BlockLAB Research: How a Health Chain can be Designed for "Fit-for-Purpose". DataWest18, San Diego Super Computer Center, San Diego, CA, December 5, 2018.

84. Mackey TK, Xu Q, Li J. Machine Learning Approaches to Detect and Classify Digital Drug Dealers on Instagram: An Evolution in Methods. PRISM 2018, UC San Francisco Mission Bay Campus, San Francisco, CA, Dec 7, 2018.

85. Mackey TK, Xu Q, Li J. Catching Digital Drug Dealers? Machine Learning Approaches to Detect Social Media Drug Sellers. USC Information Sciences Institute Seminar, Los Angeles, CA, December 17, 2018.

86. Mackey TK, Xu Q, Li J. Leveraging Artificial Intelligence for "Big Data" based Corruption Surveillance: A Multidisciplinary Pilot Study. Consultation for a Proposed Global Network on Anti-corruption, Transparency and Accountability (GNACTA) in Health Systems, Geneva, Switzerland, Feb 27, 2019.

87. Mackey TK. Blockchain Applications: Healthcare, Supply Chain and Beyond. Rady School of Management 19th Annual Supply Chain Forum, La Jolla, CA, March 5, 2019.

88. Mackey TK. HiT Talk: Leveraging Blockchain to Improve Healthcare? Challenges and Opportunities. Del Mar Electronics & Manufacturing Show 2019, Del Mar, CA, May 1, 2019.

89. Mackey TK. Blockchain: The Next Frontier in the Fight Against Counterfeits? Cold Chain Global Forum, San Diego, CA, June 12, 2019.

90. Mackey TK. Emerging Digital Technologies for the Pharmaceutical Sector. 2019 Conference on Application of Information Technology in Pharmacy Services from Global Perspective, National Taiwan University, College of Pharmacy, Taipei, Taiwan, June 24, 2019.

91. Mackey TK. Policy and Technology Approaches to Combat the Global Trade in Falsified and

Substandard Medicines. 2019 Conference on Application of Information Technology in Pharmacy Services from Global Perspective, National Taiwan University, College of Pharmacy, Taipei, Taiwan, June 24, 2019.

92. Mackey TK. Exploring Digital Pharmacy and Risks of Digital Technologies for Drug Regulation. Taiwan Food and Drug Administration, Taipei, Taiwan, June 25, 2019.

93. Mackey TK. Exploring the Intersection between Policy, Technology and Global Health from a Multidisciplinary Perspective. National Taiwan University, College of Public Health, Taipei, Taiwan, June 26, 2019.

94. Mackey TK. Defining and Measuring Corruption: Challenges and Strategies. Combatting Corruption and Promoting Equity in the Health Sector. UC San Diego – University of Toronto – WHO Collaborating Centre for Governance, Accountability and Transparency in the Pharmaceutical Sector Workshop, UC San Diego, San Diego, CA, July 10, 2019.

95. Mackey TK. How the Health Sector is Vulnerable to Corruption: Case Studies. UC San Diego – University of Toronto – WHO Collaborating Centre for Governance, Accountability and Transparency in the Pharmaceutical Sector Workshop, UC San Diego, San Diego, CA, July 10, 2019.

96. Mackey TK. Leveraging Technology, Innovation & Big Data to Combat Health Corruption. Combatting Corruption and Promoting Equity in the Health Sector. UC San Diego – University of Toronto – WHO Collaborating Centre for Governance, Accountability and Transparency in the Pharmaceutical Sector Workshop, UC San Diego, San Diego, CA, July 10, 2019.

97. Mackey TK. Exploring the Intersection between Policy, Technology and Global Health from a Multidisciplinary Perspective, Kyoto University, School of Public Health, Kyoto, Japan, August 22, 2019.

98. Mackey TK. Basic Publication Strategies in Academic Research, Kyoto University, School of Public Health, Kyoto, Japan, August 22, 2019.

99. Mackey TK. Research Update: Machine Learning and Opioids and Antibiotics Test Buy Study. Alliance for Safe Online Pharmacies Annual All-Hands Strategy Meeting, Washington DC, September 11, 2019.

100. Mackey TK. Blockchain for Health: A Primer and Case Studies. American College of Healthcare Executives/San Diego Organization of Healthcare Leaders Executive Program, San Diego, CA, September 18, 2019.

101. Mackey TK. Spark Tables: Academic Showcase, Machine Learning for Brand Protection. Brand Protection Strategy Summit 2019, the A-CAPP Center at Michigan State University, Lansing, Michigan, September 24, 2019.

102. Mackey TK. Leveraging Big Data and Machine Learning to Detect Illegal and Counterfeit Sales of Drugs, Wildlife, and Consumer Goods. Brand Protection Strategy Summit 2019, the A-CAPP Center at Michigan State University, Lansing, Michigan, September 24, 2019.

103. Mackey TK. Finding a Needle in a Haystack? Using Historical Twitter Data to Characterize the 2015 Indiana HIV Outbreak. The Global Public Health HIV & Substance Use Research Seminar, UC San Diego, Division of Infectious Disease and Global Public Health, San Diego, CA, October 3, 2019.

104. Mackey TK. Plenary Session – Technology for Illicit Drugs. Public Safety Canada Fall 2019 Law Enforcement Roundtable on Illicit Drugs, Winnipeg, Manitoba, October 9, 2019.

105. Mackey TK. The Role of Corporations in Addressing the Opioid Crisis. 2019 Milken Institute Future of Health Summit, Washington DC, October 28, 2019 [invited panel presentation].

106. Mackey TK. Combating the Opioid Crisis: Investment and Health IT Innovation. 2019 Milken Institute Future of Health Summit, Washington DC, October 29, 2019 [invited panel presentation].

107. Mackey TK. Applying Competencies and Policymaking Principles to Global Health Diplomacy Case Studies. Session Title: "Global Health Diplomacy: An Interactive Session on Global Health Diplomacy Core Competencies, Education, and Case Studies [invited scientific session]. 2019 American Public Health Association Annual Meeting, Philadelphia, PA, November 4, 2019.

108. Mackey TK. Exploring the Interdisciplinary Field of Digital Health and its Medicine and Public Health Applications. Session Title: "Exploring the Interdisciplinary Field of Digital Health and its Applications to Domestic and Global Public Health [invited scientific session]. 2019 American Public Health Association Annual Meeting, Philadelphia, PA, November 5, 2019.

109. Mackey TK. Application of Blockchain Technology to Academic Publishing. Session Title: "Potential Impact of Blockchain and Artificial Intelligence in Scientific Research and Medical

Publications" [invited scientific session]. 2019 ISMPP West Meeting, San Diego, CA, November 15, 2019.

110. <u>Mackey TK</u>. Detecting Illegal Sales of Counterfeit Drugs on Various Social Media Platforms: Case Study. USPTO Combating the Proliferation of Unregistered, Unlicensed and Counterfeit Health and Safety Regulated Products, Alexandria, VA, December 3, 2019.

111. <u>Mackey TK</u>. What if Data Privacy is the Critical Enabler of Business Innovation? [invited discussion panel]. 2019 Data West Conference, La Jolla, CA, December 10, 2019.

112. <u>Mackey TK</u>. Iran Sanctions, Access to Medicines and the JCOPA. Panel Session: The Hidden Costs of War and Sanctions. American Economic Association – Allied Social Science Associations Annual Meeting, San Diego, CA, January 4, 2020.

113. <u>Mackey TK</u>. Leveraging Big Data, Machine Learning, and Data Visualization to Address the COVID-19 Pandemic. San Diego Supercomputer Center Webinar. San Diego, CA, March 26, 2020 [video].

114. <u>Mackey TK</u>. Data Science, Blockchain and other Tech for Public Health. San Diego Taxpayers Association Meeting. San Diego, CA, June 17, 2020 [video].

115. <u>Mackey TK</u>. Counterfeit Online: The Pharma Experience. Online Conference: A Brand's New World. [invited discussion panel]. A-CAPP Center, Michigan State University, July 21, 2020 [virtual conference].

116. <u>Mackey TK</u>, Miyachi K. Blackbox Technologies: Privacy-Preserving Data Intelligence Applications for Big Data. [invited discussion panel]. San Diego Supercomputer Center Data East, UC San Diego, August 25, 2020 [virtual conference].

117. <u>Mackey TK</u>. Combating Online Wildlife Trafficking Leveraging Big Data and Machine Learning: Current State of Online Wildlife Trafficking in Africa. EarthX Conservation Conference, October 19, 2020 [virtual conference].

118. <u>Mackey TK</u>. COVID-19 and the Health Supply Chain [invited discussion panel]. UC San Diego Rady School Institute for Supply Excellence and Innovation, October 20, 2020 [virtual panel].

119. <u>Mackey TK</u>. Characterizing the Multifaceted COVID-19 Infodemic Using Big Data, Machine Learning and Interdisciplinary Analysis. APHA's 2020 VIRTUAL Annual Meeting and Expo. American Public Health Association, Oct 24-28, 2020

120. <u>Mackey TK</u>. The Acceleration of Digital Health Technologies in a post COVID19 Era: Exploring Technology Modalities, Innovation, and Policy. APHA's 2020 VIRTUAL Annual Meeting and Expo. American Public Health Association, Oct 24-28, 2020

121. <u>Mackey TK</u>. Updates on Big Data and Machine Learning Approaches to Detect and Characterize Illicit Drug and COVID-19 Product Sales Online. ASOP Global 2020 All-Hands Meeting, November 12, 2020 [virtual conference].

122. <u>Mackey TK</u>. COVID-19: An Opportunity to Reshape Healthcare? The Economic Times Global Digital League 2020 Conference, December 3, 2020 [keynote - virtual conference].

123. <u>Mackey TK</u>. The Future of Infoveillance: Moving Towards Multimodal Approaches Leveraging Social Media. Invited Panel: Updates in Social Media Research Data Sources and Considerations. PRISM Health Symposium 2020, December 3, 2020 [virtual conference].

124. <u>Mackey TK</u>. Proactive Strategies on Social Media to Protect Brands [invited panel discussion]. A Brand's New World Part 2 Conference, Michigan State University, December 7, 2020 [virtual conference]

125. <u>Mackey TK</u>. Dangers of Fake Medicines Online: Latest Research from Opioids to COVID-19 [invited panel presentation and discussion], Webinar: Dangers of Fake Medicines Online, Fight the Fakes Week, King's College London, December 8, 2020 [online webinar]

126. <u>Mackey TK</u>. Utilising Blockchain Technology to Address Healthcare Fraud and Abuse. GITEX 2020, Future Blockchain Summit, Dubai World Trade Center, Dubai, December 9, 2020 [video recorded presentation]

127. <u>Mackey TK</u>. Infoveillance, Big Data and Machine Learning in the COVID-19 Pandemic [invited panel presentation and discussion], San Diego Supercomputer Center, Data West 2020, December 16, 2020 [virtual conference]

128. <u>Mackey TK</u>. Leveraging Different Approaches in Big Data and Machine Learning to Conduct Infoveillance Studies for the COVID-19 Pandemic [invited breakout discussion and panel Q&A], University of South Carolina, Big Data Health Science Center, National Big Data Health Science Conference 2021, February 5, 2021 [virtual conference]

129. Mackey TK. Big Data Investigation of Cyber Fentanyl Cross-Border Trade on the Internet [invited virtual session "Current and Emerging Trends in the Illicit Drug Supply Chain", Public Safety Canada, 2021 Law Enforcement Roundtable on Drugs, March 4, 2021 [virtual conference]
130. Mackey TK. Big Data Approaches to Detect Illegal Sex Services and Trafficking, PAX Collaborative Meeting, University of San Diego, May 27, 2021 [virtual conference]
131. Mackey TK. Panelist: Learning from State-of-the-Art High-Technology and Innovation Research and Development, San Diego Supercomputer Center Brainstorming Seminar "Learning across boundaries: New thinking and practice for national innovation and technology policy in data science and AI", University of California, San Diego, June 8, 2021 [virtual panel]
132. Mackey TK. Panelist: The Dollars and Sense of Investing in Mental Health Resources, Milken Institute Future of Health Summit, June 22, 2021 [virtual panel]
133. Mackey TK. Panelist: Tech Possibilities: Reshaping a Misinformed Debate, Alliance to Counter Crime Online, June 24, 2021 [virtual panel]
134. Mackey TK. Panelist: Scoring on Social Media: Drugs and the Internet, Community Anti-Drug Coalitions of America (CADCA) 20th Annual Mid-Year Conference 2021, July 12, 2021 [virtual panel]
135. Mackey TK. Panelist: Telemedicine Grand Rounds: Introduction to Digital Health & Applications in the VHA/DoD, Joint Incentive Fund Cardiovascular Disease Prevention Program, American College of Preventive Medicine, August 4, 2021 [virtual panel]
136. Mackey TK. Academic Research and Innovation to Combat Opioid Sales Online, 2021 JCODE Annual Coordination & Training (FBI, HIS, DEA, USPIS), Orlando, FL, August 25, 2021.
137. Mackey TK. New and Novel Analytical Tools to Combat Availability of Online Opioids, 2021 FDA Third Online Opioid Summit, September 9, 2021 [virtual meeting]
138. Mackey TK. Infodemiology, Multi-modal Surveillance, and Data Sovereignty in Blockchain: Research Opportunities for CLDS, San Diego Supercompter Center BlockLAB Fall/Winter Research Meeting, October 13, 2021 [virtual meeting]
139. Mackey TK. Fit-for-Purpose: A Framework for Assessing Blockchain Applications in Healthcare. IEEE Americas Blockchain Local Group, October 21, 2021 [virtual meeting].
140. Mackey TK. Keynote Address: Exploring Opportunities for Research, Medical Writing, and Scientific Communication in the Growing Interdisciplinary Field of Digital Health and Infodemiology. ISMPP West 2021 Meeting, October 21, 2021.
141. Mackey TK. Leveraging social media and data science to generate insights into health equity topics: Case studies and lessons learned. American Public Health Association Annual Meeting. October 25, 2021 [virtual oral presentation].
142. Mackey TK. Building an interdisciplinary research community to tackle the COVID-19 infodemic and beyond. American Public Health Association Annual Meeting. October 26, 2021 [virtual oral presentation].
143. Mackey TK, Bardier C, Xu Q, Godinez H, Li J, Cai M, Lee C, Merenda C, Araojo. Examining characteristics of minority-focused facebook community group pages for pre-exposure prophylaxis (PrEP) treatment. American Public Health Association Annual Meeting. Oct 24-27, 2021 [virtual roundtable].
144. Mackey TK. AI Can Help Find Illegal Opioid Sellers Online; Wildlife Traffickers; and Counterfeits. National Association of Drug Diversion Investigators 32nd Annual Conference. St. Pete Beach, FL, Nov 11, 2021.
145. Mackey TK. Prescription Drug Promotion in the Digital Space. Virtual Public Workshop, Duke Margolis Center for Health Policy. Nov 19, 2021 [virtual panel].

POSTER PRESENTATIONS (Total: 23)
1. Mackey TK, Novotny TE. Strengthening the United Nations System: Amending the Helms-Biden Agreement. 2nd Annual Global Health Conference, Montreal, Canada, Nov 15, 2011.
2. Mackey TK, Liang BA. The Global Counterfeit Drug Trade: Patient Safety and Global Public Health Risks. 13th Annual World Federation of Public Health Association Meeting, Apr 26, 2012.
3. Mackey TK, Liang BA. Illicit Social Media Direct-to-Consumer Advertising for Online Pharmacies. 4th Annual San Diego Organization of Healthcare Leaders Conference, San Diego, CA, Nov 16, 2012.
4. Mackey TK, Liang BA. Combating Healthcare Corruption with Improved Global Health

Governance. 4th Annual Global Health Conference, Washington D.C., Mar 14-16, 2013.

5. <u>Mackey TK</u>. No Rx Required!: The Rise of Illicit Digital Health Access through Online Pharmacies. 2013 Yale Bouchet Conference, New Haven, CT, Apr 20, 2013.

6. <u>Mackey TK</u>, Yagi N, Liang BA. Prescription Drug Coupons: Evolution and Hidden Cost in Direct-to-Consumer Advertising. 2013 American Public Health Association Annual Meeting, Boston, MA, Nov 5, 2013.

7. <u>Mackey TK</u>, Liang BA, Kohler JC, Attaran A. Health Domains for Sale: The Need for Better Global eHealth Governance of Health Information Online. Fifth Annual Global Health Conference, Washington DC, May 10, 2014.

8. <u>Mackey TK</u>, Cuomo RE. After Counterfeit Avastin: What Have We Learned to Help Protect Cancer Patients? American Cancer Society – Cancer Action Network 2014 San Diego Research Breakfast, San Diego, CA, Oct 15, 2014.

9. <u>Mackey TK</u>, Cuomo RE, Liang BA. Consumer Sunshine: Examination of DTCA Expenditures and Need for Transparency. 2014 American Public Health Association Annual Meeting, New Orleans, LA, Nov 18, 2014.

10. <u>Mackey TK</u>, Katsuki T, Cuomo RE. Digital Surveillance of Prescription Drug Abuse: An Accessible Methodology for Collecting and Analyzing Twitter NUPM Data. 7th Annual Global Health Conference, San Francisco, CA, Apr 10, 2016.

11. <u>Mackey TK</u>, Kalyanam J, Katsuki T, Lanckriet G. Machine Learning to Detect Prescription Opioid Abuse Promotion by Illicit Online Pharmacies. Medicine X, Stanford University, CA, Sept 18, 2016 [finalist for poster award].

12. <u>Mackey TK</u>, Arora A. UN Summit on Noncommunicable Disease – Measuring Progress Five Years Later. 2016 American Public Health Association Annual Meeting, Denver, CO, Oct 31, 2016.

13. Cuomo RE, Seidman RL, <u>Mackey TK</u>. Global Inequality in Purchase Prices for Essential Cancer Medications. 2017 American Public Health Association Annual Meeting, Atlanta, GA, Nov 7, 2017.

14. <u>Mackey TK</u>. Graduate and Undergraduate Course Design for Global Health Policy: A Multidisciplinary and Mixed Learning Approach. 9th Annual Global Health Conference, Consortium of Universities for Global Health, New York, March 17, 2018.

15. <u>Mackey TK</u>, Simcoe D, Sauer M, Alexander L, Toroser D, Bruce L. Evaluation of a Medical Writing Certificate Program's Specializations, Student Information, and Workforce Data. 14th Annual Meeting of International Society for Medical Publication Professionals, National Harbor, MD, April 30, 2018.

16. <u>Mackey TK</u>, Houghtaling R, Simcoe D, Sauer M, Alexander L, Toroser D. Analysis of Student Characteristics and Workforce Data of UCSD Medical Writing Certificate Program. 2018 AMWA Medical Writing & Communication Conference, Washington DC, November 2, 2018.

17. <u>Mackey TK</u>, Cuomo RE. Interdisciplinary Assessment of Digital Technologies to Improve Transparency, Accountability and Combat Corruption in Medicines Procurement. 10th Annual Global Health Conference, Consortium of Universities for Global Health, Chicago, March 8, 2019.

18. <u>Mackey TK</u>, Purushothaman V, Li J, Xu Q. Leveraging Machine Learning to Detect Suicide and Self-Harm Discussions via Social Media. 2019 PRISM Health Symposium, San Francisco, CA, Dec 6, 2019 [best conference poster award].

19. <u>Mackey TK</u>, Miyachi K, Short J, Fung D, Qian S. A Technical Framework to Leverage Blockchain Technology to Address Healthcare Fraud and Abuse. APHA's 2020 VIRTUAL Annual Meeting and Expo. American Public Health Association, Oct 24-28, 2020

20. Xu Q, Nali M, Cai M, Haupt M, <u>Mackey T</u>. Characterization of ENDS industry coordination and influence on CA tobacco control policy on Facebook. Society for Research on Nicotine and Tobacco 2021 Annual Meeting, Feb 24-27, 2021. ePoster presentation.

21. Nali M, Purushothaman V, Qing X, Cuomo R, <u>Mackey T</u>. Characterizing California licensure status and tobacco user experiences with adverse events using business listing platform Yelp. Society for Research on Nicotine and Tobacco 2021 Annual Meeting, Feb 24-27, 2021. ePoster presentation.

22. Nali M, Purushothaman V, Qing X, Cuomo R, <u>Mackey T</u>. Assessing compliance of online vaping shops to the 2019 Massachusetts product sales ban. Society for Research on Nicotine and Tobacco 2021 Annual Conference. Feb 24-27, 2021. ePoster presentation.

23. <u>Mackey T</u>, Li J, Purushothaman V, Haupt M, Nali M, Calac A. Identifying and Characterizing the Multifaceted Forms of the COVID-19 Infodemic Using Big Data, Machine Learning, and Network Analysis. CUGH 2021 Annual Conference, March 12-14,2021. ePoster presentation.

24. <u>Mackey TK</u>, Xu Q, Bardier C, Godinez H, Nali M, Li J, Cai M, Lee C, Merenda C, Araojo R.

Unsupervised machine learning to detect and characterize barriers to PrEP therapy among diverse social media user groups. American Public Health Association Annual Meeting. Oct 24-27, 2021 [poster presentation].

CO-AUTHORED ABSTRACTS/PRESENTATIONS PRESENTED BY OTHERS (Total: 75)

1. Aung, P, Mackey TK, Liang BA. Drug Safety Withdrawals from 2002 to 2012 in U.S., Canada, EU, and UK and Availability of these Withdrawn Medications from Illegal Online Pharmacies. 2013 National Institutes of Health and Clinical and Translational Research Institute Student Poster Presentation, UC San Diego, School of Medicine, San Diego, CA, January, 9 2014 [poster].
2. Qassimyar R, Fischer SL, Liang BA, Mackey T. Needs Assessment of Telemedicine in Afghanistan and a Global Call for Action for an International Tri-Partnership Mechanism. 2014 Med-e-Tel Conference, April 11, 2014.
3. Meacham MC, Wagner KD, Mackey T, Patterson TL, Strathdee SA, Roesch SC. Transitions in polydrug use among heroin and methamphetamine injectors in Tijuana, Mexico. College on Problems of Drug Dependence 76th Annual Meeting, June 17, 2014 [poster].
4. Cuomo RE, Mackey TK. Determining Demographic Risk Factors for Receiving Counterfeit Cancer Drugs. 8th Annual National Conference on Health Disparities, November 7th, 2014 [poster].
5. Cuomo RE, Mackey TK. Potential Demographic and Economic Risk Factors for Receipt of Counterfeit Cancer Medication. Sixth Annual Global Health Conference, Boston, MA, Mar 28, 2015 [poster].
6. Cuomo RE, Mackey TK. Economics of Counterfeit Avastin: A Geospatial and Statistical Analysis of Demographic Correlates to FDA Warning Letters. 2015 American Public Health Association Annual Meeting, Chicago, IL, Nov 2, 2015 [poster].
7. Cuomo R, Miner A, Mackey TK. Pricing and Sales Tax Collection Policies for e-cigarette Starter Kits and Disposable Products Sold Online. 2015 American Public Health Association Annual Meeting, Chicago, IL, Nov 3, 2015 [poster].
8. Setayesh S, Mackey TK. Economic Sanctions, Medication Shortages and Access to Medicines: The Case Study of Iran. 2015 American Public Health Association Annual Meeting, Chicago, IL, Nov 3, 2015.
9. Carrie H, Mackey TK, Laird S. Integrating Traditional Indigenous Medicine and Western Biomedicine: A Case Study of Health Policy Implementation Impact on Miskitu Health Services in Nicaragua. 2015 American Public Health Association Annual Meeting, Chicago, IL, Nov 3, 2015.
10. Akbarzada S, Schandera J, Mackey TK. Calling for International Legal Recognition of Internally Displaced Persons & Expanded Access to Health and Human Rights. 2015 American Public Health Association Annual Meeting, Chicago, IL, Nov 3, 2015.
11. Miner A, Mackey TK. Exploring the e-Cigarette e-Commerce Marketplace: Identifying Internet e-cigarette Marketing Characteristics and Regulatory Gaps. 2015 American Public Health Association Annual Meeting, Chicago, IL, Nov 3, 2015.
12. Anderson A, Mackey TK, Liang BA. Mapping of Health Promotion and Education Programs Addressing Public Health Dangers of Illicit Online Pharmacies. 2015 American Public Health Association Annual Meeting, Chicago, IL, Nov 3, 2015 [poster].
13. Cuomo RE, Mackey TK. Macroeconomic Factors Underlying Essential Cancer Medication Availability Among Low- and Middle-Income Countries. 7th Annual Global Health Conference, San Francisco, CA, Apr 9, 2016 [poster].
14. Guerra C, Mackey TK. Legal Analysis of U.S. Criminal and Civil Prosecutions Associated with Illicit Online Pharmacies. 2016 American Public Health Association Annual Meeting, Denver, CO, Oct 31, 2016.
15. Aburas R, Mackey TK, Najeeb A, Baageel L. Foundation of a Maternity and Children's Healthcare Center for Displaced Syrians. 2017 Migrant Labor and Global Health Conference, UC Davis, CA, March 2, 2017 [poster].
16. Aburas R, Mackey TK, Najeeb A, Ba Ageel L. Foundation of a Maternity and Children's Healthcare Center for Displaced Syrians. 8th Annual Global Health Conference, Consortium of Universities for Global Health, Washington DC, April 7, 2017.

17. Kalyanam J, Mackey T. Detection and Characterization of Illegal Marketing and Promotion of Prescription Drug Abuse on Twitter. NIPS Workshop Machine Learning for Healthcare 2017, Long Beach, CA, USA, December 8, 2017

18. Albdah A, Mackey T. A Review of Telepsychiatry Adoption, Use, and Future Directions in the Middle East. UCSD Institute of Public Health – Public Health Research Day 2017, San Diego, CA, April 4, 2018 [poster].

19. Lopez V, Mackey T. DREAMer's Forced Return Migration: Policy analysis and recommendations to ensure equitable healthcare access. UC Global Health Day 2018, San Diego, CA, April 22, 2018 [poster].

20. Xu Q, Li J, Mackey T. Machine Learning to Detect Online Illegal Wildlife Trade via Social Media. AI Collaboration to End Wildlife Trafficking Online Workshop, Global Coalition to End Wildlife Trafficking Online, Microsoft, Redmond, WA, September 11, 2018.

21. Rupa P, Mackey T. Prescription Drug Monitoring Programs: A State Mapping of Policies on Compliance, Utilization and Training. 2018 American Public Health Association Annual Meeting, San Diego, CA, Nov 11, 2018 [poster].

22. Baxi S, Mackey T. Policy Proposal for an Essential Cancer List to Facilitate Access and Affordability to Cancer Treatment. 2018 American Public Health Association Annual Meeting, San Diego, CA, Nov 13, 2018.

23. Li J, Xu Q, Shah N, Cai M, Mackey TK. Machine Learning to Detect Prescription Opioid Abuse Promotion by Illicit Online Pharmacies. UCSD Institute of Public Health - UC San Diego Public Health Research Day 2019, San Diego, CA, April 4, 2019.

24. Xu Q, Choi K, Mackey TK. Multilingual Assessment of Medical Tourism Policy in Korea: A Case Study of Healthcare Globalization. UCSD Institute of Public Health - UC San Diego Public Health Research Day 2019, San Diego, CA, April 4, 2019

25. Cai M, Li J, Chen W, Shah N, Mackey TK. Using Machine Learning to Explore the 2015 Indiana HIV Outbreak Using Geocoded Tweets. UCSD Institute of Public Health - UC San Diego Public Health Research Day 2019, San Diego, CA, April 4, 2019.

26. Shah N, Jue J, Mackey TK. An Examination of Surgical Black Box Technology and Applicable Medicolegal and Regulatory Considerations. UCSD Institute of Public Health - UC San Diego Public Health Research Day 2019, San Diego, CA, April 4, 2019.

27. Albdah A, Mackey TK. Adoption of Telepsychiatry in the Middle East: A Multidisciplinary Clinical, Technology and Policy Review. American Psychiatric Association Annual Meeting, San Francisco, CA, May 21, 2019.

28. Cuomo RE, Yang J, Nali M, Li J, Purushothaman VL, Mackey TK. A Geospatial Analysis of Age Disparities Related to Tobacco and Vaping Storefronts in California. Poster presented at: UCSD Moores Cancer Center Delivering Discoveries Scientific Retreat; San Diego, CA, October 14, 2019.

29. Li J, Chen W, Xu Q, Shah N, Mackey TK. Leveraging Big Data to Identify Corruption as an SDG Goal 16 Humanitarian Technology, IEEE Global Humanitarian Technology Conference (GHTC), Seattle, USA, October 19, 2019.

30. Mackey T, Cai M, Chen WH, Shah N, Obradovich N, Li J. Using Natural Language Processing and Machine Learning to Investigate the 2015 Indiana HIV Outbreak Using Twitter. 2019 American Public Health Association Annual Meeting, Philadelphia, PA, Nov 4, 2019.

31. Xu Q, Mackey T. A Comparative Analysis of Korean Medical Tourism with Top-destination Countries for Medical Tourism in Asia. 2019 American Public Health Association Annual Meeting, Philadelphia, PA, Nov 4, 2019.

32. Shah N, Mackey T. Interdisciplinary Review of Surgical Black Box Technology and Applicable Legal and Regulatory Considerations. 2019 American Public Health Association Annual Meeting, Philadelphia,

PA, Nov 4, 2019.

33. Xu Q, Shen Z, Cai M, Purushothaman VL, Shah N, Li J, Nali M, Mackey TK. Content Analysis of Chinese-language Social Media User-generated Expression of Uncertainty During the Covid-19 Outbreak on Weibo. APHA's 2020 VIRTUAL Annual Meeting and Expo. American Public Health Association, Oct 24-28, 2020 [awarded APHA Early Career Professional Scholarship]

34. Purushothaman VL, Cuomo RE, Li J, Nali M, Mackey TK. Variation in the Association Between Smoking Prevalence and Number of Tobacco Retailers in California. APHA's 2020 VIRTUAL Annual Meeting and Expo. American Public Health Association, Oct 24-28, 2020.

35. Cai M, Shah N, Cuomo RE, Shen Z, Mackey TK. Longitudinal Analysis of CMS Open Payments Database Industry Payments to Physicians from 2013-2018. APHA's 2020 VIRTUAL Annual Meeting and Expo. American Public Health Association, Oct 24-28, 2020.

36. Yang J, Mackey TK, Sou A, Faruqui A. Knowledge and Attitudes Toward e-cigarette, or Vaping, Product use-associated Lung Injury (EVALI) Among Tobacco using Young Adults. APHA's 2020 VIRTUAL Annual Meeting and Expo. American Public Health Association, Oct 24-28, 2020.

37. Nali M, Li J, Shen Z, Mackey TK. Machine Learning to Characterize Alternative Tobacco Product Adverse Events: A Yelp! Study. APHA's 2020 VIRTUAL Annual Meeting and Expo. American Public Health Association, Oct 24-28, 2020.

38. Nali M, Purushothaman V, Xu Q, Cuomo R, Mackey TK. Characterizing and Assessing Compliance of Online Vaping Sales in the Context of State Sales Bans. APHA's 2020 VIRTUAL Annual Meeting and Expo. American Public Health Association, Oct 24-28, 2020.

39. Cuomo RE, Yang J, Purushothaman VL, Nali M, Li J, Mackey TK. Geospatial Age Disparities for California Tobacco and Vape Shops. American Public Health Association Annual Meeting, Oct 24-28, 2020.

40. Li J, Mackey TK, Chen WH, Xu Q, Shah N, Kohler J. Detection of Health Sector Corruption-related Self-Reports on Twitter using Unsupervised Machine Learning. American Public Health Association Annual Meeting, Oct 24-28, 2020.

41. Shah N, Mackey TK, Lee M. Characteristics and Scope of Practice of Physician Assistants: A Global Review. American Public Health Association Annual Meeting, Oct 24-28, 2020

42. Cuomo RE, Purushothaman VL, Li J, Bardier B, Nali M, Shah N, Obradovish N, Yang J, Mackey TK. Characterizing Smoking-Related Tweets from California College Campuses. Promoting Research in Social Media and Health Symposium, Dec 3-4, 2020.

43. Calac AJ, Bardier C, Cai M, Mackey TK. Facebook Community Reaction to a COVID-19 Vaccine Trial on the Navajo Nation. Promoting Research in Social Media and Health Symposium, Dec 3-4, 2020. Poster.

44. Shah NA, Nali M, Bardier C, Li J, Mackey TK. Machine Learning Analysis for the Characterization of Vape/E-cigarette Marketing and Sales on Instagram. Promoting Research in Social Media and Health Symposium, Dec 3-4, 2020.

45. Purushothaman V, Cuomo RE, Leas E, Mackey T, Strong D. Longitudinal trends in tobacco and vape retail density in California (2015-2019). Society for Research on Nicotine and Tobacco 2021 Annual Meeting. Feb 24-27, 2021. ePoster presentation.

46. Cuomo RE, Purushothaman V, Li J, Bardier C, Nali M, Shah N, Obradovish N, Yang J, Mackey TK. Characteristics of tobacco-related tweets originating from California college campuses from 2015-2019. Society for Research on Nicotine and Tobacco 2021 Annual Conference. Feb 24-27, 2021. ePoster presentation.

47. Yang JS, Sou A, Faruqui A, Mackey TK. Young Adult Nicotine Users' Attitudes and Responses to EVALI. Society for Research on Nicotine and Tobacco 2021 Annual Conference. Feb 24-27, 2021. ePoster presentation.

48. Yang JS, Sou A, Faruqui A, <u>Mackey TK</u>. Knowledge, Attitudes and Experiences with Tobacco-free University Policies Among Tobacco-using Employees and Students. Society for Research on Nicotine and Tobacco 2021 Annual Conference. Feb 24-27, 2021. ePoster presentation.

49. Purushothaman V, Cuomo RE, Li J, Nali M, <u>Mackey T</u>. Association between tobacco retail density and prevalence of smoking, vaping in California. Society for Research on Nicotine and Tobacco 2021 Annual Conference. Feb 24-27, 2021. ePoster presentation.

50. Haupt M, <u>Mackey T</u>. Investigating Misinformation Spread of Hydroxychloroquine Twitter Discourse using Natural Language Processing. CUGH 2021 Annual Conference, March 12-14,2021. ePoster presentation.

51. Calac A, Bardier C, Cai M, <u>Mackey T</u>. Facebook Community Reaction to a COVID-19 Vaccine Trial on the Navajo Nation. CUGH 2021 Annual Conference, March 12-14,2021. ePoster presentation.

52. Cai M, Li J, Shah N, Purushothaman V, Nali M, Bardier C, <u>Mackey T</u>. Model Evaluation of a Hybrid Unsupervised and Supervised Machine Learning Approach to Detect Twitter User Self-reporting of COVID-19 Symptoms. CUGH 2021 Annual Conference, March 12-14,2021. ePoster presentation.

53. Haupt, M.R., Calac, A, Bardier B, Li J, <u>Mackey TK</u>. Characterizing Twitter Reaction to Pfizer Vaccine Announcement. UConn Center for mHealth and Social Media 5th Annual Conference, May 13, 2021.

54. Calac A, Bardier C, Zhuroan L, Cai M, <u>Mackey TK</u>. Assessing User Engagement with COVID-19 Vaccine Trial-Related Outreach Events on Facebook. UConn Center for mHealth and Social Media 5th Annual Conference, May 13, 2021.

55. Bardier C, Haupt MR, Calac A, Li J, <u>Mackey TK</u>. Assessing Differences in Online Discourse of COVID-19 Misinformation on Twitter by Ethnicity, Uconn Center for mHealth and Social Media 5th Annual Conference, May 13, 2021 [poster presentation].

56. Shah N, Nali M, Li J, Maroulis J, <u>Mackey TK</u>, Bardier C, Cuomo RE. Unsupervised machine learning approach to detect and characterize online sales of flavored vaping products. American Public Health Association Annual Meeting, October 24-27, 2021 [poster presentation].

57. Cuomo RE, Bai Z, Xu Q, Ding M, <u>Mackey TK</u>. Symptom clustering among patients with COVID-19 in a clinical setting in Tonghua, China. American Public Health Association Annual Meeting, October 24-27, 2021 [poster presentation].

58. Purushothaman V, Cuomo RE, Garland C, <u>Mackey TK</u>. Age-dependent association between ultraviolet b exposure and colorectal cancer: Ecological study with geospatial visualization. American Public Health Association Annual Meeting, October 24-27, 2021 [poster presentation].

59. Cuomo RE, <u>Mackey TK</u>. Co-occurring conditions among patients with comorbid COVID-19 and tobacco/nicotine dependence. American Public Health Association Annual Meeting, October 24-27, 2021 [virtual oral presentation].

60. Cuomo RE, Purushothaman V, <u>Mackey TK</u>. County-level psychosocial correlates of COVID-19 morbidity and mortality in the United States: A spatiotemporal analysis. American Public Health Association Annual Meeting, October 24-27, 2021 [oral presentation].

61. Calac A, Li J, Cuomo RE, <u>Mackey TK</u>. Using social media to characterize substance use and overdose on American Indian reservations. American Public Health Association Annual Meeting, October 24-27, 2021 [virtual oral presentation].

62. Purushothaman VL, Cuomo RE, Garland CF, <u>Mackey TK</u>. Age-dependent association between ultraviolet b exposure and colorectal cancer: Ecological study with geospatial visualization. American Public Health Association Annual Meeting. Oct 24-27, 2021 [virtual oral presentation].

63. Purushothaman VL, Li J, Nali M, Bardier C, <u>Mackey TK</u>. Digital surveillance to identify pro-vaping advocacy and opposition to tobacco control legislation on Instagram. American Public Health Association Annual Meeting. Oct 24-27, 2021 [virtual oral presentation].

64. Cuomo RE, Purushothaman VL, <u>Mackey TK</u>. County-level psychosocial correlates of COVID-19

morbidity and mortality in the United States: A spatiotemporal analysis. American Public Health Association Annual Meeting. Oct 24-27, 2021 [virtual oral presentation].

65. Cuomo RE, Mackey TK. Co-occurring conditions among patients with comorbid COVID-19 and tobacco/nicotine dependence. American Public Health Association Annual Meeting. Oct 24-27, 2021 [virtual oral presentation].

66. Haupt M, Calac A, Bardier C, Li J, Mackey TK. Identifying Prevalent Themes and Influential Users in Reaction to Pfizer Vaccine Announcement on Twitter. American Public Health Association Annual Meeting. Oct 24-27, 2021 [poster presentation].

67. Bardier C, Haupt M, Calac A, Li J, Mackey TK. Assessing differences in online discourse of COVID-19 misinformation on twitter by ethnicity. American Public Health Association Annual Meeting. Oct 24-27, 2021 [poster presentation].

68. Nali M, Mackey TK, Li J, Maroulis J. Characteristics of tobacco manufacturer and retail licensure policies: A state regulatory analysis. American Public Health Association Annual Meeting. Oct 24-27, 2021 [poster presentation].

69. Xu Q, Godinez H, Bardier C, Nali M, Li J, Cai M, Mackey TK. Impact of COVID-19 on PrEP HIV prevention access as reported on social media platforms. American Public Health Association Annual Meeting. Oct 24-27, 2021 [poster presentation].

70. Xu Q, Cai M, Li J, Nali M, Mackey TK. Leveraging big data approaches to assess the online trade of fentanyl analogues and precursors. American Public Health Association Annual Meeting. Oct 24-27, 2021 [poster presentation].

71. Li J, He Y, Xu Q, Cai M, Bardier C, Godinez H, Mackey TK. Machine learning approaches to predict race and ethnicity of twitter users discussing HIV PrEP prevention therapy. American Public Health Association Annual Meeting. Oct 24-27, 2021 [poster presentation].

72. Yang J, Faruqui A, Sou A, Mackey TK. Non-compliance with university tobacco-free policies: A qualitative exploration. American Public Health Association Annual Meeting. Oct 24-27, 2021 [poster presentation].

73. Yang J, Mackey TK. Transitions in tobacco product use among young adults: A phenomenological approach. American Public Health Association Annual Meeting. Oct 24-27, 2021 [poster presentation].

74. Calac A, Bardier C, Cai M, Mackey TK. Exploring facebook engagement to a COVID-19 vaccine trial on an American Indian reservation. American Public Health Association Annual Meeting. Oct 24, 2021 [oral session].

75. Calac A, Li J, Cuomo R, Mackey TK. Using social media to characterize substance use and overdose on American Indian reservations. American Public Health Association Annual Meeting. Oct 27, 2021 [virtual oral session].

GUEST/VISITING LECTURER

2021	UC San Diego, School of Public Health, MPH Program, Technology & Precision Health for Public Good, FMPH430, Fall 2022
2021	UC San Diego, School of Medicine, MAS Clinical Research Program, CLRE259B, Scientific Communication Skills, Winter 2021
2021	Stevenson University, Graduate Course, Forensic Sciences, FSE: 630 Online Investigations: Strategy & Technique, Summer 2020
2020	UC San Diego, School of Medicine, ACTRI Translational Workforce Development Program, KL2 Seminar Series, Winter 2020
2019-present	University of San Diego, School of Business, MBA Elective Blockchain Course, Summer Semester 2019, 2021
2019-present	UC San Diego, Skaggs School of Pharmacy, Drug Development and Product

Management Program, DDPM 213 Health Outcomes Evidence

2018   UC San Diego, School of Medicine, Medical School Program (1st year students), SOMI 248: Introduction to Global Health Research

2018   UC San Diego, School of Medicine, Clinical Research MAS Program, ISP Seminar Series

2016   Fundamentals of Global Health Summer Course, Utrecht Summer School (designed and lectured 4 sessions on global health topics), Summer 2016

2016   Pharmaceutical Policy Analysis Summer Course, Utrecht Summer School (Policy and Politics session), Summer 2016

2016   UC San Diego, Global Health Undergraduate Major (GLBH 181 "Essentials of Global Health, upper-division, Spring 16')

2011-present   UC San Diego, School of Medicine, Medical School Program (2nd year medical students), October 11', October 13', September 14', September 15'

2011-present   San Diego State University, School of Public Health, Global Health Program, Fall 11', Fall 12', Fall 13', Fall 14', Fall 15', Fall 16'

2013   Chinese University of Hong Kong, International and Comparative Intellectual Property Law Course-Legal Faculty, Faculty of Social Science and Global Studies Program, September 24-25

2013   City University of Hong Kong, Department of Economics & Finance, September 26

2013   University of Saint Joseph, Macau, Government Studies Program, September 27

2013   San Diego State University, School of Public Health, Health Policy and Management Program, Spring 13'

2012   UC San Diego Extension, Mannheim Healthcare Executive Leadership Program (exchange students), October 5

2012   UC San Diego, Joint Doctoral Program Lecturer Series, January 17

MEDIA ACTIVITIES

2021   **Interview:** Interview and coverage of research on counterfeit drug trade including for HIV medications in HIVat40 website: https://hivat40.wordpress.com/2021/12/01/counterfeit-hiv-medications-penetrate-us-drug-supply-chain/

Interview: Interview in USA Today on availability of recalled consumer products on Facebook Marketplace: https://www.usatoday.com/in-depth/news/investigations/2021/11/03/facebook-marketplace-sale-recall-boppy-lounger/6140902001/

Interview: Interview and coverage of S-3 Research in NBC News and Santa Monica Daily Press about efforts by Snapchat to reduce online availability of illicit drug sales: https://www.nbcnews.com/tech/social-media/snapchat-boosts-efforts-root-out-drug-dealers-n1280946; https://www.smdp.com/snapchat-takes-steps-to-combat-sale-of-lethal-fentapills-on-their-platform/209508

Interview: Interview in Washington Post about challenges associated with illicit opioid and fentanyl drug sales on social media platforms: https://www.washingtonpost.com/technology/2021/09/28/tiktok-snapchat-fentanyl/

Interview: Interview in NBC News about participation in FDA 3rd Online Opioid Summit and research and innovation activities focused on combating illicit drug sales online: https://www.nbcnews.com/tech/tech-news/tech-companies-meet-fda-discuss-curb-sale-opioids-online-rcna1963

Interview: Interview in Medical News Today about proposals to create ethical principles regarding COVID-19 vaccine access: https://www.medicalnewstoday.com/articles/are-covid-19-vaccine-boosters-the-way-forward

Research Coverage: Various research coverage on research published on Vitamin D exposure and colon cancer risk: UCSD Press Release: https://health.ucsd.edu/news/releases/Pages/2021-07-06-colorectal-cancer-risk-may-increase-with-lower-exposure-to-uvb-light.aspx; US News &

World Report: https://www.usnews.com/news/health-news/articles/2021-07-05/too-little-sunlight-vitamin-d-may-raise-colon-cancer-risk; KUSI News: https://www.kusi.com/ucsd-researchers-identify-link-between-lack-of-uv-light-colorectal-cancer/; AAAS EurekAlert!: https://eurekalert.org/pub_releases/2021-07/bc-let063021.php

Interview: Interview in Vox about Tokyo Olympics and public health ramifications of decisions about the event: https://www.vox.com/22428596/olympics-tokyo-2021 and https://www.vox.com/22580164/tokyo-japan-olympics-2021-summer-covid; and Independent: https://www.independent.co.uk/news/world/tokyo-olympics-chief-bach-covid-b1886983.html

Interview and Research and Startup Coverage: Interview and research and startup coverage featured on The Today Show national TV segment: https://www.today.com/video/how-kids-can-buy-drugs-and-other-dangerous-items-via-social-media-111689285566

Interview and Research Coverage: Interview and coverage of our research detecting and characterizing social media-based misinformation on COVID19 cures and vaccines in Science News: https://www.sciencenews.org/article/misinformation-fake-news-stories-social-media-brain

Interview: Interview of research on availability of unregulated vaping products and potential for public health harm in Forward: https://forward.com/news/467897/the-kosher-cartel-was-this-cleveland-butcher-shop-a-front-for-money/

Research Coverage: Coverage of our research on COVID19 misinformation in relation to rise of re-prints and fast-paced science in TheScientist: https://www.the-scientist.com/news-opinion/opinion-the-rise-of-preprints-is-no-cause-for-alarm-68667

Research Coverage: Coverage of our research work on fake COVID19 products and vaccines being sold on social media by Recode/Vox: https://www.vox.com/recode/22268337/vaccine-card-social-media-cdc-fakes-scams

Research Coverage: Coverage of our published research on COVID19 misinformation and tweets from former President Trump in COVID-19 Daily Dispatch, January 27, 2021: https://www.tctmd.com/news/COVID19-daily-dispatch

Interview and Research Coverage: Interview and coverage of our research and technology development activity on detecting illicit opioid sales online for our SBIR funded startup S-3 Research LLC in Treatment Magazine: https://treatmentmagazine.com/tech-startup-tracks-illegal-opioid-prescriptions/

2020   **Research Coverage:** Credit for our research collaboration on COVID-19 Chinese social media during the early stages of the outbreak with Japanese NHK COVID-19 Special TV Documentary Program "謎の感染拡大〜新型ウイルスの起源を追う〜" December 27, 2020 and April 11, 2021: https://www3.nhk.or.jp/nhkworld/en/ondemand/video/4001389/ (English version) https://www.nhk.jp/p/special/ts/2NY2QQLPM3/episode/te/R6N3RR2YV1/ (Japanese version)

Interview: TV interview and article on work assessing the risks of fake COVID-19 vaccines being sold online during the pandemic on NBC7: https://www.nbcsandiego.com/news/local/experts-warn-of-covid-19-vaccine-scams/2465937/; ABC10: https://www.10news.com/news/coronavirus/amid-rollout-of-covid-19-vaccines-officials-warn-of-fake-vaccines-sold-online; and Telemundo 20: https://www.telemundo20.com/noticias/salud/coronavirus/alerta-por-fraudes-en-linea-por-vacunas-falsas-de-covid-19/2077438/; KNX1070 News Radio (radio interview)

Research Coverage: Research coverage of publication on social media surveillance in Chinese language on World Economic Forum website and other venues: https://www.weforum.org/agenda/2020/10/sewage-surveillance-scientists-track-trace-identify-diseases-covid19-spread/; Canadian Geographic https://www.canadiangeographic.ca/article/sewage-surveillance-how-scientists-track-and-identify-diseases-covid-19-they-spread; Global News https://www.canadiangeographic.ca/article/sewage-surveillance-how-scientists-track-and-identify-diseases-covid-19-they-spread; the Conversation https://theconversation.com/sewage-surveillance-how-scientists-track-and-identify-diseases-like-covid-19-before-they-spread-148307

Interview and Research Coverage: Featured interview and research coverage about misinformation and social media for COVID-19 and hydroxycholoroquine in the IRB Advisor:

https://www.reliasmedia.com/articles/146932-lessons-learned-or-not-from-hydroxychloroquine-mishap; and https://www.reliasmedia.com/articles/146927-covid-19-misinformation-affects-everyone-in-research-community

Interview and Research Coverage: Featured interview on U.S. General Services Administration Challenge.gov website on research and startup activities of S-3 Research LLC: https://www.challenge.gov/blog/july-27-2020-Past-Winner-Question-and-Answer-with-Tim-Mackey-of-S-3-Research/

Interview and Research Coverage: UC San Diego press release and TV and radio interviews on Fox 5 News, NBC 7 News, KUSI News, KPBS, and KNX 1070 News radio, and several news media outlets including Forbes, Reuters Health (Medscape), U.S. News & World Report, Consumer Affairs and The Times of India on our published research using big data and machine learning to detect illegal sales of COVID-19 products on social media platforms: https://health.ucsd.edu/news/releases/Pages/2020-08-25-researchers-see-increase-in-fraudulent-covid-19-posts-on-social-media.aspx; Forbes: https://www.forbes.com/sites/aayushipratap/2020/08/30/scamsters-using-twitter-and-instagram-to-market-fraudulent-covid-19-drugs-and-diagnostic-kits-study-finds/#7b9afe3da33a; Medscape: https://www.medscape.com/viewarticle/936960?src=rss; Times of India: https://timesofindia.indiatimes.com/india/fake-covid-19-products-including-unapproved-herbal-products-from-india-available-on-twitter-instagram/articleshow/77909210.cms; U.S. News & World Report: https://www.usnews.com/news/health-news/articles/2020-09-07/watch-out-for-coronavirus-scams-on-social-media

Interview: Interview on social media surveillance and discussions of COVID-19 misinformation in Vox-Recode: https://www.vox.com/recode/2020/7/28/21345008/donald-trump-jr-twitter-suspension-stella-immanuel-hydroxychloroquine-misinformation

Interview and Research Coverage: TV interview and coverage of research and innovation to detect COVID-19 fake products and scams on the Internet on PIX11 News (New York): https://www.pix11.com/news/coronavirus/researchers-study-millions-of-social-media-post-find-bogus-covid-19-test-kits-for-sale

Interview and Research Coverage: Interview and coverage of research and innovation in detecting fake COVID-19 products and testing kits on social media in Vox-Recode: https://www.vox.com/recode/2020/4/17/21221692/digital-black-market-covid-19-coronavirus-instagram-twitter-ebay

Interview Coverage: Coverage of interview on using digital ledger technology and medical supply chains: https://www.forbes.com/sites/forbesbusinessdevelopmentcouncil/2020/04/29/how-blockchain-can-solve-todays-medical-supply-chain-flaws-and-improve-responses-for-future-crises/?sh=219f1faf750a

Interview and Research Coverage: Interview and coverage of research and innovation through commercialization efforts of S-3 Research LLC to detect suspect COVID-19 products on social media in The Register: https://www.theregister.co.uk/2020/04/10/coronavirusl_surveillance_bots/

Interview and Research and Teaching Coverage: Interview and academic coverage in Forbes discussing blockchain and global health education, research and S-3 Research activities: https://www.forbes.com/sites/michaeldelcastillo/2020/03/11/blockchain-professor-adds-coronavirus-to-curriculum-as-classes-go-remote/#264771257371

Interview and Startup Coverage: Interview and research coverage in deeplearning.ai The Batch newsletter discussing our NIH SBIR funded startup company, its solution, and model performance: https://blog.deeplearning.ai/blog/the-batch-fighting-coronavirus-hunting-drug-dealers-fixing-bugs-regulating-ai-accelerating-text-to-speech

Interview and Startup Coverage: Interview and research coverage in The Register discussing commercialization of research through NIH SBIR funded startup company: https://www.theregister.co.uk/2020/01/22/us_ai_drugs/

Interview and Research Coverage: Interview and research coverage in Vox-Recode highlighting research work and NIH SBIR funded startup company: https://www.vox.com/recode/2020/1/21/21060680/opioids-artificial-intelligence-illegal-online-pharmacies; Unite.ai: https://www.unite.ai/ai-opens-up-new-ways-to-fight-illegal-opiod-sales-and-

other-cybercrime/

Interview: Interview in NBC News investigative journalism piece on illegal sale of vaping and cannabis/THC on social media: https://www.nbcnews.com/tech/social-media/armed-guards-secret-location-inside-illegal-marijuana-bazaar-publicized-instagram-n1117281

Interview: Interview in Healthline highlighting work on published on illegal online access to drugs and diabetes products: https://www.healthline.com/health-news/why-people-turn-to-the-black-market-for-medication

2019   **Research Coverage:** Coverage of NIH funded startup S-3 Research on National Institutes of Health – National Institute on Drug Abuse website: https://www.drugabuse.gov/about-nida/noras-blog/2019/10/nidas-help-startups-translate-addiction-science-new-technologies

Interview and Research Coverage: Interview and research coverage in OneZero (a Medium publication) highlighting work on published and forthcoming social media and illegal wildlife trafficking research: https://onezero.medium.com/the-illegal-wildlife-market-is-booming-encrypted-messaging-makes-it-worse-1949c068ef64

Research Coverage: Coverage of research published on Iranian sanctions and access to medicines as mentioned in op ed by Fareed Zakaria: https://www.sunjournal.com/2019/07/14/fareed-zakaria-the-road-to-another-middle-eastern-war/ (Sun Journal); https://trib.com/opinion/columns/zakaria-the-road-to-another-middle-eastern-war/article_92f533d7-cfb6-51dd-b854-37445238be18.html (Caspar Star Tribune); https://www.stltoday.com/opinion/columnists/national/fareed-zakaria-the-road-to-another-middle-eastern-war/article_604171a8-3d2a-5b54-b6e6-cc7c8c614296.html (St. Louis Post-Dispatch)

Interview: Interview in Proto (Massachusetts General Hospital Publication) on future opportunities for blockchain in healthcare: http://protomag.com/articles/what-blockchain-could-do

Interview and Research Coverage: Interview and research coverage in Bloomberg and Los Angeles Times highlighting work on social media, illegal wildlife trafficking and machine learning: https://www.bloomberg.com/news/articles/2019-07-11/wildlife-traffickers-use-facebook-instagram-to-find-black-market-buyers?srnd=premium, https://www.straitstimes.com/world/united-states/wildlife-traffickers-use-facebook-instagram-to-find-black-market-buyers; https://www.latimes.com/business/la-fi-facebook-instagram-wildlife-black-market-20190712-story.html

Research Coverage: Research coverage in POLITICO Pro titled "Instagram chock full of opioids, study finds": https://www.politico.com/newsletters/morning-ehealth/2019/07/01/a-call-to-upgrade-public-health-data-452712; Research coverage in AI in Healthcare describing research findings from JMIR article on Instagram and illegal opioid sales: https://www.aiin.healthcare/topics/research/digital-drug-pushers-deep-learning

Interview and Research Coverage: Interview and research coverage in POLITICO Pro article "What your social media posts tell the government about your drug use" and POLITICO Morning eHealth newsletter, highlighting work on social media, opioid diversion and behavior and machine learning: https://subscriber.politicopro.com/ehealth/article/2019/04/what-your-social-media-posts-tell-the-government-about-your-drug-use-1319398, https://www.politico.com/newsletters/morning-ehealth/2019/04/03/va-faces-scrutiny-over-it-420721

Interview: Interview in Vox regarding FDA action against online sellers of contraceptive products: https://www.vox.com/2019/3/12/18260699/misoprostol-mifepristone-medical-abortion

Interview and Research Coverage: Interview and research coverage in Wall Street Journal highlighting work on Twitter, opioids and machine learning: https://www.wsj.com/articles/where-will-drug-overdoses-hit-next-twitter-may-offer-clues-11549471717?mod=searchresults&page=1&pos=1

2018   **Interview and Research Coverage:** Article in University of Toronto News highlighting publication of article in special issue of the Bulletin of the World Health Organization: https://www.utoronto.ca/news/scholars-u-t-s-who-collaborating-centre-develop-blueprint-combat-global-corruption-health

Interview: Interview regarding access to Twitter data for opioid research in BuzzFeed:

https://www.buzzfeednews.com/article/danvergano/twitter-mackey-data-opioids; and CNN article interview linking opioid prescribing to online purchasing and social media access: https://edition.cnn.com/2018/09/10/health/opioid-prescribing-study/index.html

Interview: Interview for blockchain applications for healthcare industry and informatics in publication Healthcare Executive Sept/Oct 2018, p.23-32.

Interview: Interview on potential of blockchain technology for healthcare in Health Tech Magazine, Fall 2018: https://healthtechmagazine.net/article/2018/08/how-will-blockchain-impact-healthcare-tech-leaders-weigh

Research Coverage: Research coverage in Reuters on JAMA Network Open commentary on substandard and falsified medicines: https://www.reuters.com/article/us-health-drugs-counterfeits/fake-low-quality-drugs-come-at-high-cost-idUSKCN1LG2TM; and in Voice of America: https://www.voanews.com/a/fake-low-quality-drugs-come-at-high-cost/4553145.html

Interview and Research Coverage: Interview and research coverage on Clinical Pain Advisor on opioid sales online and digital epidemiology: https://www.clinicalpainadvisor.com/home/topics/opioid-addiction/striking-a-balance-between-opioid-surveillance-and-patient-privacy/

Interview: Interview by LinkedIn Editor – Healthcare regarding academic innovation, intellectual property and conflicts of interest in LinkedIn: https://www.linkedin.com/pulse/doctor-inventors-face-unique-challenge-getting-support-beth-kutscher/

Media Activity: Interview regarding participation in FDA Online Opioid Summit in Wired: https://www.wired.com/story/tech-companies-deflect-blame-for-opioid-crisis-fda-summit/ and BuzzFeed: https://www.buzzfeed.com/danvergano/dark-web-opioids-report?utm_term=.cyy5XVMgg9#.nuq1md0ooR

Media Activity: Interview in ACP internist article on future regulatory decisions on direct-to-consumer screening testing: http://www.acpinternist.org/archives/2018/06/dtc-screening-tests-a-source-of-concern.htm

Media Activity/Research Coverage: Media coverage of research using machine learning to detect illicit online pharmacies and online opioid sales in Wired https://www.wired.com/story/one-woman-got-facebook-to-police-opioid-sales-on-instagram/ and Buzz Feed: https://www.buzzfeed.com/danvergano/fda-facebook-google-illegal-opioids-pharmacies?utm_term=.cqM0zLa886#.mqjY8MeXXP and https://www.buzzfeed.com/janelytvynenko/social-networks-are-losing-a-deadly-battle-with-illegal?utm_term=.fm9b5yQPP0#.bpQwZD5QQ8

Media Activity: Media coverage of HIMSS 18 session and presentation on blockchain and healthcare featured in Healthcare IT News: https://www.statnews.com/2017/12/01/fake-medicines-who-surveillance/, CIO Review: https://pharma-life-sciences.cioreview.com/news/realworld-healthcare-applications-of-blockchain-nid-25838-cid-36.html, CMS Wire https://www.cmswire.com/information-management/whats-next-for-blockchain/ and HealthTech Magazine: https://healthtechmagazine.net/article/2018/04/blockchain-buzz-only-growing-louder-healthcare

2017   **Media Activity:** Published article on STAT News First Opinion on WHO report and progress made towards combating fake medicines: https://www.statnews.com/2017/12/01/fake-medicines-who-surveillance/

Media Activity: Interview in MedCity News article on regulatory developments regarding direct-to-consumer genetic testing: https://medcitynews.com/2017/11/fda-and-genetic-testing/?rf=1

Research Coverage: Media coverage of published research on using machine learning to detect illegal sales of opioids online in American Journal of Public Health. UC San Diego Health System Press Release (http://ucsdnews.ucsd.edu/pressrelease/machine_learning_detects_marketing_and_sale_of_opioids_on_twitter); ASOP Global Press Release (http://www.prweb.com/releases/2017/10/prweb14841778.htm#!); News Articles in Scientific American (https://www.scientificamerican.com/article/ai-scans-twitter-for-signs-of-opioid-abuse/); Market Watch (http://www.marketwatch.com/story/how-robots-can-help-curb-trafficking-of-opioids-

2017-10-26); The Washington Times (http://www.washingtontimes.com/news/2017/oct/25/illegal-online-drug-peddlers-being-rounded-new-com/); Healthcare Analytics News (http://www.hcanews.com/news/using-ai-to-combat-the-opioid-crisis); The Economic Times (https://economictimes.indiatimes.com/tech/internet/new-tech-detects-marketing-sale-of-opioids-on-twitter/articleshow/61241608.cms); Salon (https://www.salon.com/2017/11/11/ai-scans-twitter-for-signs-of-opioid-abuse_partner/); ehealth Radio (https://ehealthradio.podbean.com/e/new-peer-reviewed-study-finds-online-pharmacies-are-using-twitter-to-sell-illegally-controlled-substances)

Research Coverage: Interview and radio news coverage on published research on global health corruption on BBC World Service Health Check segment: http://www.bbc.co.uk/programmes/p05b9q72; radio interview on German Public Radio Deutschlandfunk: http://ondemand-mp3.dradio.de/file/dradio/2017/12/04/falsche_pillen_wie_korruption_das_gesundheitswesen_dlf_20171204_1645_8653884c.mp3; and UCSD News Desk post: http://ucsdhealthsciences.tumblr.com/post/163993506700/the-disease-of-corruption

Media Activity: Interview about views on blockchain technology and pharmaceutical supply chain in online and print version of Pharmaceutical Technology: http://www.pharmtech.com/node/339106

Research Coverage: Interview and news coverage on cost and transparency of hospital billing practices in Medical Ethics Advisor: https://www.ahcmedia.com/articles/140796-are-hospital-billing-practices-unethical-chargemaster-still-used-to-boost-revenue

Media Activity: Interview in Motherboard (Vice) article on the potential limitations of the new .health domain and quality of information online: https://motherboard.vice.com/en_us/article/theres-a-new-health-domain-and-it-could-save-you-from-fake-medicine

Research Coverage: Interview and news coverage of research on expanded access policies and social media in Medical Ethics Advisor: https://www.ahcmedia.com/articles/139817-study-social-media-is-affecting-patients-access-to-investigational-drugs

2016   **Teaching and Research Coverage:** Article on Institute for Health Metrics and Evaluation highlighting use of IHME data for graduate teaching on global health financing: http://www.healthdata.org/acting-data/how-educators-are-informing-next-generation-gbd-research-and-tools

Media Activity Blog article published by BMC Series announcing appointment as Section Editor of Global Health at journal BMC Public Health: http://blogs.biomedcentral.com/bmcseriesblog/2016/11/28/introducing-the-global-health-section-editor-for-bmc-public-health/

Research Coverage: Website article on STAT linking to published research on global health corruption: https://www.statnews.com/2016/10/26/global-health-non-governmental-organizations/

Media Activity Interviewed for CNN article on how to pay less for prescription drugs and the impact of marketing on pharmaceutical drug pricing: http://www.cnn.com/2016/08/25/health/where-to-get-cheap-drugs/; LocalNews8: http://www.localnews8.com/lifestyle/health/how-to-pay-less-for-your-prescription-drugs-legally/41373496; Live TV interview on KUSI News: http://www.kusi.com/clip/12696930/epipen-price

Research Coverage: Article on Oxford University Press OUPblog highlighting review article on dangers of illicit online pharmacies published in the British Medical Bulletin: http://blog.oup.com/2016/06/digital-dangers-medicines-online/

Media Activity: Interviewed and featured with written profile as one of UCSD Extension's "50 Voices of the Future": https://ucsandiegoextension.wordpress.com/2016/06/21/50-voices-of-the-future-timothy-ken-mackeys-prescription-for-a-clean-bill-of-global-health/

Media Activity: Interviewed and featured in news article in AARP on fake medicines and consumer protection: http://www.aarp.org/health/drugs-supplements/info-2016/counterfeit-prescription-drugs-rx.html#slide1

Media Activity: Interviewed and featured in news article in Christian Science Monitor on tobacco control policy including the United Kingdom's decision to implement plain packaging and the court victory for Uruguay's national packaging laws: http://www.csmonitor.com/World/Global-

News/2016/0519/Must-cigarette-packaging-be-bland-and-indistinct-British-High-Court-says-yes?cmpid=push002; and http://www.csmonitor.com/World/Global-News/2016/0709/Uruguay-The-little-country-that-changed-tobacco-laws

Research Coverage: Washington Post article discussing research published in special issue of Global Health Governance on the Ebola outbreak:
https://www.washingtonpost.com/pb/news/monkey-cage/wp/2016/05/12/the-world-health-organization-is-electing-a-new-leader-heres-what-you-need-to-know/

Research Coverage: BioMed Central "On Health" blog network article highlighting study on international drug policy reform published in the Harm Reduction Journal:
http://blogs.biomedcentral.com/on-health/2016/04/18/ungass-2016-commentary-series-historic-opportunity-international-drug-policy-reform/

Research Coverage: Press release and video highlighting research on pharmaceutical regulation as published in Proceedings of Mayo Clinic:
https://www.youtube.com/watch?v=LCXkvXU1wd4&feature=youtu.be (video);
http://www.mayoclinicproceedings.org/pb/assets/raw/Health%20Advance/journals/jmcp/jmcp_pr91_4_2.pdf (press release); and blog article on UCSD Health Sciences tumblr blog page:
http://ucsdhealthsciences.tumblr.com/post/142698354620/commentary-amarin-vs-fda-and-off-label-promotion

Research Coverage: Commissioned commentary in response to our research article published in BMC Medicine on social media and compassionate use:
http://bmcmedicine.biomedcentral.com/articles/10.1186/s12916-016-0586-6; and blog article in BioMed Central "On Medicine" blog network highlighting research findings:
http://blogs.biomedcentral.com/on-medicine/2016/02/10/going-social-help-terminally-ill-patients-gain-expanded-access/

2015   **Research Coverage:** Media coverage of research Twitter and prescription drug abuse published in Journal of Medical Internet Research. Joint ASOP and GHPi Press Release (http://www.prnewswire.com/news-releases/results-of-the-first-study-to-establish-a-link-between-twitter-and-illegal-online-pharmacies-published-in-jmir-300194388.html); article by National Association of Boards of Pharmacy: http://www.nabp.net/news/study-finds-link-between-twitter-content-and-illicit-online-pharmacies; news article on IPWatchdog http://www.ipwatchdog.com/2016/02/06/illicit-pharmaceutical-drug-sales-twitter/id=65659/; news article in Knoxville Times: http://www.knoxvilletimes.com/index.php/sid/240365839; podcast on Digital Parent podcast (available on iTunes/Soundcloud): http://digitalparentpodcast.com/illicit-online-pharmacies/

Research Coverage: Research coverage of presentation at the American Society for Tropical Medicine and Hygiene and published research on counterfeit/fake medicines in BioMed Central "On Medicine" blog network: https://blogs.biomedcentral.com/on-medicine/2015/11/04/malaria-reservoir-ebola-challenges-counterfeit-drugs-astmh-64th-annual-meeting/

Media Activity: Interviewed and featured in news article in POLITICO Pro on drug companies using prescription drug discount program to gain access to patient data:
https://www.politicopro.com/ehealth/story/2015/12/big-pharma-gets-data-for-discounts-079507

Media Activity: Interviewed regarding special invited session on Applied Global Health Diplomacy during 2015 American Public Health Association Meeting by APHA TV:
https://www.youtube.com/watch?v=UBH1zywpXCc

Research Coverage: Media coverage of research on e-cigarette sales online published in Drug & Alcohol Dependence. UC San Diego Health System Press Release (http://health.ucsd.edu/news/releases/Pages/2015-10-02-online-e-cigarette-vendors-use-Internet.aspx); news article in Consumer Affairs:
http://www.consumeraffairs.com/news/researchers-find-that-ordering-e-cigarettes-online-is-pretty-easy-100615.html; radio feature on KFBK-AM (aired October 6, 2015); La Jolla Light news article (October 8, 2015, page A7) and Live radio interview with KOGO Radio San Diego (aired October 15, 2015.)

Media Activity: Interviewed and featured in news article in Science Magazine on the public

health implications of the Transpacific Partnership Agreement:
http://news.sciencemag.org/health/2015/10/trade-agreement-praised-and-panned
Research Coverage: Media coverage of research on counterfeit medicines published in American Journal of Tropical Medicine & Hygiene. UC San Diego Health System Press Release (http://health.ucsd.edu/news/releases/Pages/2015-04-20-falsified-medicines-taint-global-supply.aspx); News Article in New Republic (http://www.newrepublic.com/article/121589/counterfeit-medicine-global-problem); Medical Daily (http://www.medicaldaily.com/global-problem-counterfeit-drugs-affects-even-legitimate-sources-such-hospitals-and-329914#); Medical News (http://www.news-medical.net/news/20150421/UC-San-Diego-study-examines-counterfeit-drug-penetration-in-global-medicine-supply-chains.aspx); Infection Control Today (http://www.infectioncontroltoday.com/news/2015/04/falsified-medicines-taint-global-supply.aspx); Laboratory Equipment (http://www.laboratoryequipment.com/news/2015/04/global-pandemic-counterfeit-medicine-needs-more-attention); Pharma Technology Focus Article "Tip of the Iceberg" (http://www.nridigital.com/pharma-technology-magazine/august-2015.html?wv=s%2FPharma%2520Technology%2520Focus%2F8e39fe4d-1815-5813-871a-d40dd3c7b8a6%2FPTF%25201507%2Ffake.html); the Medicine Maker "Finding Fakes" (https://themedicinemaker.com/fileadmin/user_upload/TMM_0915.pdf); Live radio interview with CBS/KCBS Radio News San Francisco (aired April, 25, 2015.)
Research Coverage: News article in Securing Industry quoting research on counterfeit Avastin published in Nature Reviews Clinical Oncology (http://www.securingindustry.com/pharmaceuticals/fake-avastin-incident-could-happen-again-/s40/a2316/#.VSTI7VxEnih)
Media Interview: Interviewed and quoted in Pittsburgh Post-Gazette on new technology addressing counterfeit medicines (http://www.post-gazette.com/business/healthcare-business/2015/02/20/Tiny-radio-transmitter-could-help-stifle-sales-of-bogus-meds/stories/201502220035)

2014 **Research Coverage:** Research on health domains featured by numerous media outlets including National Public Radio (http://www.npr.org/blogs/health/2014/09/26/351416992/will-dot-health-make-it-more-likely-that-youll-get-scammed), the Canadian Broadcasting Corporation (http://www.cbc.ca/news/health/health-websites-could-be-overrun-by-commercial-interests-experts-fear-1.2779128), TechDirt (https://www.techdirt.com/articles/20140926/08041428649/health-experts-issue-call-to-prevent-icanns-commercialization-new-health-domain-leading-to-exclusive-control-online-health.shtml), Medical News Today (http://www.medicalnewstoday.com/releases/283165.php), Kaiser Health News (http://www.kaiserhealthnews.org/Daily-Reports/2014/September/29/health-IT.aspx), and Inside Science (http://www.insidescience.org/content/new-internet-domains-could-affect-public-health-say-experts/2176).
Speaking Coverage: Featured story on panel discussion at BIO 2014 on BIOtechNOW website: (http://www.biotech-now.org/health/2014/06/convention-attendees-make-the-call-on-expanded-access#); Interviewed and quoted in healthcare business news article in Modern Healthcare regarding participation at BIO 2014. Article can be found at: http://www.modernhealthcare.com/article/20140621/MAGAZINE/306219945/biotechconvention-weighs-orphan-drug-development-ethics
Media Interview: Interviewed and quoted in News Article in the medical journal CMAJ. Article can be found at: http://www.cmaj.ca/content/early/2014/04/07/cmaj.109-4739.full.pdf+html
Research Coverage: Research and quotes from interview on health domains featured in article in Medpage Today. Article can be found at: http://www.medpagetoday.com/PracticeManagement/InformationTechnology/44766

2013 **Media Interview:** News coverage in Hong Kong and Macau in Macau Daily Times, Macao Daily (Chinese), and Exmoo News (Chinese) on advocacy for counterfeit medicines issue as part of activities with University of Saint Joseph and the Consulate General of the United States Hong

Kong & Macau. Articles can be found at: http://www.macaudailytimes.com.mo/macau/47403-us-professor-timothy-mackey%3A-"a-global-solution-is-needed-in-fighting-counterfeit-drugs".html; http://www.macaodaily.com/html/2013-09/28/content_840724.htm; and http://www.exmoo.com/index.php?m=content&c=index&a=show&catid=17&id=30753
Media Interview: Interview and story about research published in JAMA regarding direct-to-consumer advertising featured in news article in Toronto Star. Article can be found at: http://www.thestar.com/news/insight/2013/08/05/big_pharma_likes_social_media_for_marketing.html
Media Interview: SDSU News Center, "Counterfeit Inspiration", link: http://newscenter.sdsu.edu/sdsu_newscenter/news.aspx?s=74268

2012   **Media Interview:** Endocrine News, "Imposters in the Medicine Cabinet: A wave of counterfeit drugs puts public at risk", December 2012.
Media Interview: ABC World News National TV Broadcast and News Story, "Fake Online Pharmacies", link: http://abcnews.go.com/Health/fda-warns-consumers-dangers-buying-prescription-drugs-online/story?id=17352895#.UIrOBW_A9YU (News report) and http://abcnews.go.com/WNT/video/online-prescription-drug-dangers-17353130 (TV Broadcast)
Research Coverage: CSPAN-3, PSM 2012 Presentation, link: http://www.cspan.org/Events/Partnership-for-Safe-Medicines-Hosts-Counterfeit-Drug-Conference/10737434501-8/
Research and Advocacy Coverage: Center for Policy Analysis on Trade and Health (CPATH) article and link to research, link: http://www.cpath.org/id49.html.

2011   **Research Coverage:** FiercePharma Manufacturing article highlighting research, link: http://www.fiercepharmamanufacturing.com/node/9879/print
Media Interview: San Diego News Network (SDDN.com), interview and article on San Diego jobs in healthlaw and healthcare studies, link: http://www.sdnn.com/sandiego/2010-05-10/jobs-careers-employment/how-to-get-a-san-diego-job-in-health-law.

COMMUNITY SERVICE

2014   Guest speaker at American Cancer Society 2014 Relay for Life Opening Ceremony, San Diego, CA, USA

PROFESSIONAL/EDUCATIONAL TRAINING

>**Editorial Training:** Springer Nature, Foundation for Editors' Short Course, BioMed Central & SpringerOpen Editors' Conference, June 2017 (invited and funded attendee.)

>**Research Training:** Robert Wood Johnson Foundation, New Connections Tenth Annual Research and Coaching Clinic, October 2016 (invited and funded attendee.)

>**Teaching Training:** Council on Foreign Relations, College and University Educators Workshop, April 2016 (invited and funded attendee.)

>**Leadership Training:** Association of Schools of Public Health (ASPH) Student Leadership Institute, October 2012 (invited and funded attendee.)

>**Software Training:** Tableau Desktop Fundamentals

OTHER TECHNICAL SKILLS AND TRAINING

UC San Diego – Extension, Paralegal Certificate (2004)
UC San Diego – Extension, Coursework in Intellectual Property Certificate, Coursework in Geographic Information Systems Certificate, Legal Ethics, Biostatistics, Overview of Regulatory Affairs for Medical Devices, Photography, and Microsoft Sharepoint

Foreign Languages: Japanese (日本語)
Statistical and Data Analysis and Visualization Software: SPSS, NVivo 10, Tableau, Google Data Studio
GIS Software: ArcGIS Desktop/Online, Google Earth Pro
Network Analysis Software: Gephi, NodeXL
Research Citation Software: Papers, Endnote X3, Zotero
Qualitative Tools: SurveyMonkey, NVivo
Graphic and Web Design: Proficient in Adobe Creative Suite 5/6 and Rapidweaver
Webserver and Database: Microsoft Sharepoint Server, OSX Server

ONLINE REFERENCES

UC San Diego Health Sciences Profile: http://profiles.ucsd.edu/timothy.mackey
Global Health Policy and Data Institute Profile: http://www.ghpolicy.org/team/tmac/index.html
Linkedin Profile: www.linkedin.com/in/tkmackey/
ResearchGate Profile: https://www.researchgate.net/profile/Tim_Mackey/?ev=hdr_xprf
Google Scholar: http://scholar.google.com/citations?user=o1IVUQIAAAAJ
ORCiD: http://orcid.org/0000-0002-2191-7833
Publons: https://publons.com/author/304712/tim-mackey#profile