CAMERON M. KIEFFER, Ph.D.
Washington, D.C.
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PROFESSIONAL SUMMARY

Highly motivated pharmacology and public health specialist with program and policy experiences working with international, regional, and Federal decision makers. Understanding of foreign policy related to drug demand reduction, the public health consequences of the world drug problem, drug treatment, and counternarcotics. Experience building and maintaining relationships with counternarcotics and public health officials across the Department of State, U.S. government, and international organizations. Strong qualitative and quantitative analysis skills, including data science experience relevant to monitoring and evaluating foreign assistance programs. Extensive experience with data visualization and an ability to effectively communicate complex topics to diverse audiences in oral, written, and visual formats.

EDUCATION

Ph.D. Pharmacology — 2018
Creighton University School of Medicine, Omaha, Nebraska

B.S. Economics and Chemistry; Physics Minor — 2013
Summa cum laude, Creighton University, Omaha, Nebraska

PROFESSIONAL EXPERIENCE

U.S. DEPARTMENT OF STATE **12/2020 to Present**
Bureau of International Narcotics and Law Enforcement Affairs, Office of Knowledge Management

Advisor for Science and Data Analytics; AAAS Science and Technology Policy Fellow

Duties, Accomplishments, and Related Skills:
Provide subject matter expertise to develop policies and foreign assistance programs related to drug prevention, treatment, recovery, counternarcotics, opioids, data science, and data visualization.

Primary Responsibilities

- Direct integration of scientific and public health information and data into U.S. foreign policy and foreign assistance programs related to drug treatment, counternarcotics, and criminal justice.
- Participate in the development of Bureau-wide policies and strategies by researching issues and drafting proposed guidelines and explanatory material.
- Present clear and concise information and analysis in written and oral forms for leadership on emerging trends in public health, drug treatment, counternarcotics, and the opioid crisis.
- Lead the review of State Department documents—including position papers, information memos, talking points, and others—and federal legislation for counternarcotics equities and ensure that these documents are scientifically accurate and aligned with U.S. policy.
- Coordinate Division input for inter-office, -bureau, and -agency working groups.
- Represent the United States at international organizations and other informal intergovernmental working groups focused on public health and counternarcotics issues. Coordinate interagency technical expertise from the Departments of State and Health & Human Services (HHS), including the Office of Global Affairs, as well as the Office of National Drug Control Policy (ONDCP).
- Design and implement novel data analyses and data visualization techniques using the programming language R and graphic design software to provide advice to leadership.

- Advise Bureau working groups on the use of data, data analytics, and data visualization to transition the Bureau to a data-focused, agile, learning organization.
- Evaluate the design, monitoring, and evaluation of multi-country counternarcotics programs by reviewing international organization agreements and serving on technical evaluation panels.
- Build relationships, both within and outside of INL, to support Bureau work and maintain awareness of emerging topics, including by collaborating with interagency liaisons from Drug Enforcement Agency (DEA), Department of Defense, U.S. Coast Guard, and Department of Homeland Security.

U.S. DEPARTMENT OF STATE **12/2019 to 12/2020**
Bureau of International Narcotics and Law Enforcement
Affairs, Office of Knowledge Management

Program Analyst; AAAS Science and Technology Policy Fellow

Duties, Accomplishments, and Related Skills:
Provided technical advice, expertise, research, and policy analysis on a range of topics including counternarcotics, supply reduction, chemistry, drug treatment, data science and visualization.

Primary Responsibilities:
- Integrated scientific information and data into U.S. foreign policy and foreign assistance programs related to counternarcotics, law enforcement, and criminal justice.
- Presented clear and concise information and analysis in written and oral forms for leadership on public health, drug treatment, pharmacology, the opioid crisis, and drug supply reduction.
- Reviewed State Department documents—including memos, issue papers, letters of agreements, and others—and federal legislation for counternarcotics equities and ensure that these documents are scientifically accurate and aligned with U.S. foreign policy.
- Represented Division at inter-office, -bureau, and -agency working groups, including ONDCP's Peer Recovery Support Services (PRSS) working group.
- Participated in intergovernmental working groups and liaised with international organizations (primarily the Organization of American States) on public health and counternarcotics issues in consultation with State, HHS, and ONDCP.
- Supported leadership decision making by conducting data analyses and generating effective visualizations utilizing in-depth knowledge of the computer programming language R and graphic design software.
- Used technical and strategic knowledge of data, data analytics, and data visualization to advise working groups on the Bureau's transition to a data-focused, agile, learning organization.

SANOFI **10/2018 to 10/2019**
Office of Global Regulatory Science and Policy, North America

Policy Analyst/PhRMA Foundation Regulatory Science Fellow

Duties, Accomplishments, and Related Skills:
Provided regulatory strategy support by researching and analyzing U.S. Food and Drug Administration (FDA) regulations and presented policy guidance in written, oral, and data visualization formats.

Primary Responsibilities
- Presented information and analysis in written and oral forms for leadership on regulatory science and public health questions including on interpretations of FDA regulations and guidance. Synthesized relevant FDA guidance for monthly briefings to internal stakeholders.

- Represented company interests on Biotechnology Innovation Organization (BIO) trade organization working groups. Covered topics included vaccines, antimicrobial resistance, narcotics, opioids, and the use of artificial intelligence in regulatory decision making.
- Conducted data analyses and generated effective data visualizations to provide advice to company leadership utilizing in-depth knowledge of the computer programming language R and graphic design software.
- Analyzed legal requirements outlined in the Code of Federal Regulations (CFR) and United States Code (USC). Drafted memos on analysis results to advise drug development offices on topics including drug naming, post-marketing commitments, and drug licensing procedures.
- Participated in pharmaceutical regulatory policy meetings and trainings.

CREIGHTON UNIVERSITY SCHOOL OF MEDICINE **9/2013 to 9/2018**
Department of Pharmacology
2500 California Plaza, Omaha, NE, 68178

Graduate Student Researcher **Hours per week:** 40

Duties, Accomplishments, and Related Skills:

- Presented research at local, national, and international biomedical conferences in a variety of oral and written formats including eleven poster presentations, one 60-second oral presentation, and a biannual oral, formal PowerPoint presentations to the entire Department of Pharmacology.
- Wrote a comprehensive dissertation, entitled "Functional Identification and Modeling of Nerves in Airways," summarizing lab work. The dissertation effectively presented complex innovative research in a written format including an analysis of current therapies for the treatment of airway disease. It further included novel methods for computational modeling of neurotransmitters in the regulation of airways using machine learning techniques.
- Invited by principal investigator to instruct nursing student lectures on the pharmacology. Communicated complex topics to an audience via oral presentations. Taught lectures for five semesters, with each class having over fifty nursing students. Lectures were on diverse topics including the basics of pharmacology, the autonomic nervous system, antihistamines, hormones, and other topics. Received positive feedback on end-of-course evaluations.
- Designed a research program, including laboratory experiments, using animal tissues and cells to investigate the neurotransmitters responsible for control of the lungs and the effects of electronic cigarettes (e-cigarettes).
- Analyzed a pharmacology experiment result dataset with hundreds of thousands of data points using advanced programming skills. Created data visualizations that consolidated the results of the analysis and effectively communicated the results to diverse audiences.
- Designed and programmed a computer model in R to predict physiologic lung responses based on physiologic data collected from animal tissues. The model incorporated machine learning principles to identify appropriate physiological constants.
- Developed method to automatically analyze thousands of experimental images and generate a machine-readable dataset. Created a YouTube video effectively explaining method in an oral format for a technical audience.
- Solved lab-related problems including designing electronic devices, repairing lab equipment, and researching potential explanations for unexpected experimental results.
- Established mouse exposure methods for cigarettes and e-cigarettes. Designed and built an electronic e-cigarette exposure system. Used tissue from animal exposures to monitor the effects of e-cigarettes on airway function.

CVS/PHARMACY **9/2012 to 9/2015**
14460 W Maple Rd, Omaha, NE 68116

Pharmacy Technician **Hours per week:** 10

Duties, Accomplishments, and Related Skills:
Resolved health insurance issues with insurance companies; interacted with patients by providing quality customer service; dispensed medications; gained practical knowledge of the clinical use of pharmaceuticals.

CREIGHTON UNIVERSITY **9/2011 to 9/2013**
Department of Physics
2500 California Plaza, Omaha, NE, 68178

Physics Research Assistant **Hours per week:** 10

Duties, Accomplishments, and Related Skills:
Performed dielectric spectroscopy experiments to determine the physical properties of ionic gels for the development of new battery technologies. Presented a poster on research results at the Creighton University Honors Program annual research symposium.

AWARDS

U.S. Department of State Embassy Science Fellowship, Embassy Beijing, China. 2021.
2nd place – Toastmasters Table Topics Speech Competition, Area 23. 2020.
American Association for the Advancement of Science (AAAS) Science and Technology Policy Fellowship (STPF). 2019.
Pharmaceutical Research and Manufactures of America (PhRMA) Foundation Regulatory Science Fellowship. 2018.
All Graduate School Academic Achievement Award, Creighton University Graduate School. 2019.
1st Place – Best Poster Competition, Graduate/Professional Student, Basic Science Division, Creighton University Research Day. 2018.
Outstanding Poster Presentation Award, CNPHARS-ASPET Joint Symposia on Pharmacology. 2017.
2nd Place – Best Poster Presentation Award, ASPET Clinical and Translational Pharmacology Division, Experimental Biology. 2017.
ASPET Graduate Student Mentoring Program Travel Award, Experimental Biology. 2016.
Eagle Scout. 2007.

PUBLICATIONS

Kieffer CM, Reisin Miller A, Chacko B, Robertson AS. (2019) FDA Reported Use of Patient Experience Data in 2018 Drug Approvals. *Therapeutic Innovation & Regulatory Science*. https://doi.org/10.1177/2168479019871519
Kieffer CM and Robertson AS. (2019) Impact of FDA-Required Cardiovascular Outcome Trials on Type 2 Diabetes Clinical Study Initiation From 2008 to 2017. *Therapeutic Innovation & Regulatory Science*. https://doi.org/10.1177/2168479019860122
Kieffer CM and Abel PW. (2016) Calcitonin Gene-Related Peptide. *Reference Module in Biomedical Sciences.* Elsevier. doi: 10.1016/B978-0-12-801238-3.99350-4
Kieffer CM and Abel PW. (2016) Isoproterenol. *Reference Module in Biomedical Sciences*. Elsevier. doi: 10.1016/B978-0-12-801238-3.99340-1
Kieffer CM. (2015) Computer Skills for Scientists: Integral Tools of the Scientific Process. *ASPET Blog*.
Abel PW and **Kieffer CM.** (2014) Pulmonary Hypertension. *Reference Module in Biomedical Sciences*. Elsevier. doi: 10.1016/B978-0-12-801238-3.05255-7
Kieffer CM and Abel PW. (2014) Hyperkalemia. *Reference Module in Biomedical Sciences*. doi: 10.1016/B978-0-12-801238-3.05069-8

PRESENTATIONS

Kieffer CM. (2020) Data Literacy and Visualization. State Department Leadership Course.
Kieffer CM and Thompson AB. (2020) The Opioid Crisis and How the State Department Promotes a Balanced, Recovery-Oriented Approach to the World Drug Problem. State Department Foreign Policy Classroom.
Kieffer CM and Robertson AS. (2019) Using Data-Driven Policy to Advance Regulatory Science. DIA Regulatory Intelligence Working Group.
Kieffer CM. (2019) Regulatory Science in the Pharmaceutical Industry. Creighton University School of Medicine, Department of Pharmacology, Graduate Student Development Seminar
Kieffer CM, Tu Y, Abel PW. (2018) Pharmacokinetic Modeling of Acetylcholine-Induced Contraction in Mouse Trachea. Experimental Biology, ASPET Section, San Diego, CA
Kieffer CM, Tu Y, Abel PW. (2017) Neurotransmitter Systems in Mouse Lungs. CNPHARS-ASPET Joint Symposia on Pharmacology, Hangzhou, China
Kieffer CM, Tu Y, Abel PW. (2016) Effects of Nerve Stimulation in Mouse Lungs. Experimental Biology, ASPET Section, San Diego, CA
Kieffer CM. (2016) Introduction to Network Analysis Using Cytoscape. Creighton University School of Medicine, Bioinformatics Club Seminar.
Kieffer CM and Abel PW. (2015) Electrical Nerve Stimulation of Airways and Pulmonary Vasculature. Midwest Biomedical Research Forum, Omaha, NE

SERVICE AND TEACHING EXPERIENCE

Committee Member, Honors Program Alumni Advisory and Admissions Committees. Creighton University. 2014 to Present.
Instructor, Drug Demand Reduction Module (INL 801). U.S. Department of State. 2020
Guide, ASPET Washington Fellows Program, Hill Day to Support Biomedical Research. 2020
Instructor, Nursing Management of Pharmacotherapy (NUR 341). Creighton University. 2016 to 2018
Introduction to PK/PD; Introduction to Autonomic Pharmacology; Antihistamines and Bronchodilators; Drugs to Treat Hyperlipidemia; Thyroid Hormones and Glucocorticoids.
Teaching Assistant, General and Organic Chemistry Labs (CHM 204, 206, 322, 324), Creighton University. 2010 to 2012.
Shotgun Range Director, H. Roe Bartle Boy Scout Camp. Summer 2013.
Nature Lodge Director, H. Roe Bartle Boy Scout Camp. Summers 2011 and 2012.

PROFESSIONAL MEMBERSHIPS

American Society for Pharmacology and Experimental Therapeutics (ASPET)
American Association for the Advancement of Science (AAAS)
Regulatory Affairs Professionals Society (RAPS)

ADDITIONAL INFORMATION

Languages
English: Spoken (Native); Written (Native); Read (Native)
Mandarin Chinese: Spoken (Novice); Written (Novice); Read (Novice)
Spanish: Spoken (Novice); Written (Novice); Read (Intermediate)
Computer Programming Languages
R (Advanced), Python (Intermediate), HTML (Intermediate), CSS (Novice)
Software
Inkscape (graphic design), Audacity (audio editing), GitHub
Microsoft Office (Word, Excel, PowerPoint, PowerBI, SharePoint, Teams, Forms)
Foreign Service Institute (FSI) Training
Security Overseas Seminar (MQ911) 2021.

Mandarin Chinese Express, Parts 1 & 2, Distance Language Learning. (LCM420) 2020.
The People's Republic of China, Mongolia, and Taiwan. (ASEAP2002) 2020.
Northeast Asia Regional Overview. (ASEAP2101) 2020.
Private Sector Engagement – Tools and Techniques. (EXWKP1001) 2020.
Mitigating Unconscious Bias. (PT144) 2020.
New Technology Seminars – PowerBI. (PS322) 2020.
High Threat Security Overseas (HTSOS) 2019.

Other Relevant Training

Advanced Pharmacokinetic Modeling, Creighton University
Pharmacoeconomics, Creighton University