KATHLEEN M. VOGEL
SCHOOL FOR THE FUTURE OF INNOVATION IN SOCIETY
ARIZONA STATE UNIVERSITY

EDUCATION

- 1998 Ph.D., Chemistry (Bio-inorganic/Bio-physical), Princeton University, Princeton, NJ
- 1997 M.A., Chemistry, Princeton University, Princeton, NJ
- 1993 B.A., Chemistry, Biology, & Spanish, magna cum laude, Drury College, Springfield, MO

PROFESSIONAL APPOINTMENTS

- August 2020 to present
  - Professor (with tenure), School for the Future of Innovation in Society, Arizona State University.
    - June 2025 to June 2026: Associate Dean for Faculty, Rob Walton College of Global Futures
    - July 2021-August 2022: Interim Director
    - September 2021-present: Senior Global Futures Scientist, Julie Ann Wrigley Global Futures Laboratory
    - Fall 2021-present: Melikian Center Faculty Affiliate; Global Rights Hub, Trafficking Working Group
    - August 2020-June 2021: Deputy Director
- July 2018-June 2023
  - Honorary Lecturer, Department of Science and Technology Studies, University College London.
- February 2017 to August 2020
  - Associate Professor (with tenure), School of Public Policy, University of Maryland, College Park.
    - August 2019-August 2020: Director of Strategic Research Initiatives.
    - February 2017-August 2020: Senior Fellow, Center for International and Security Studies (CISSM), University of Maryland.
- August 2016 to March 2021
  - Appointment as Jefferson Science Fellow (2016-2018), U.S. Department of State, Office to Monitor and Combat Trafficking in Persons (JTIP). Reports and Political Affairs Officer with portfolio responsibilities for 12 countries in the Caribbean and East/Central Europe.
    - Wrote narratives for the annual U.S. Department of State *Trafficking in Persons* report for Western Hemisphere, European, and African countries; coordinated with relevant State Department and interagency offices; conducted consultations and official visits with foreign government officials in The Bahamas, Barbados, Saint Vincent and the Grenadines, Trinidad and Tobago, and Washington, DC.
  - Continued as an expert consultant with the JTIP office from August 2018 to March 2021.
- June 2014 to February 2017
  - Associate Professor (with tenure), Department of Political Science, North Carolina State University, Raleigh, NC.
    - June 2014-June 2016: Director, Science, Technology, and Society Program, Interdisciplinary Studies.
- September 2011 to August 2012 (sabbatical leave)
  - Senior Fellow, International Security Studies Program, Woodrow Wilson International Center for Scholars, Washington, DC.
- April 2011-June 2014
  - Associate Professor (with tenure), Department of Science and Technology Studies & Judith Reppy Institute for Peace and Conflict Studies, Cornell University, Ithaca, NY.

    - July 2013-June 2014: Associate Director, Judith Reppy Institute for Peace and Conflict Studies.
    - July 2012 to June 2013: Acting Director, Judith Reppy Institute for Peace and Conflict Studies.
- January 2004 to March 2011
    - Assistant Professor, Department of Science and Technology Studies & Judith Reppy Institute for Peace and Conflict Studies, Cornell University, Ithaca, NY.
        - January 2004-August 2011: Co-Organizer, Science, Technology, and Security Program in the Judith Reppy Institute for Peace and Conflict Studies.
        - July 2007-July 2011: Director of Undergraduate Studies, Department of Science and Technology Studies.
- January 2003 to December 2003
    - William C. Foster Fellow, Bureau of Nonproliferation, Office of Proliferation Threat Reduction, U.S. Department of State, Washington, DC.
        - Responsible for policy engagement on former Soviet biological weapons facilities and scientists.
- January 2002 to December 2002
    - Postdoctoral Fellow, Institute for Public Policy, University of New Mexico; Visiting Scholar, Cooperative Monitoring Center, Sandia National Laboratories, Albuquerque, NM.
- September 1999 to December 2001
    - Postdoctoral Associate, Peace Studies Program, Cornell University, Ithaca, NY.
- October 1998 to August 1999
    - Postdoctoral Fellow, Chemical & Biological Weapons Nonproliferation Program, Center for Nonproliferation Studies (CNS), Monterey Institute for International Studies, Monterey, CA.

PEER-REVIEWED BOOKS

Ford Jr., Carl W. and Kathleen M. Vogel, *US Intelligence Failure and Knowledge Creation: Improving Intelligence Analysis* (London: Routledge, 2025).

Vogel, Kathleen M., *Phantom Menace or Looming Danger?: A New Framework for Assessing Bioweapons Threats* (Baltimore: The Johns Hopkins University Press, 2013).

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Note: * indicates co-first-authors; [+]indicates current/former graduate students

Woods, Craig, Glenn A. Cross, and Kathleen M. Vogel, "The Future of State Sponsored Assassinations involving Chemical and Biological Weapons," for a special issue on the Future of Intelligence for the *Journal for Intelligence, Propaganda and Security Studies*, accepted and forthcoming.

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Security vol. 40, no. 6 (2025): *1097–1113,* https://doi.org/10.1080/02684527.2025.2565945.

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Coulthart, Stephen, M. Shahriar Hossain, Christopher Kampe[+], and Kathleen M. Vogel, "Data-Science Literacy for Future Security and Intelligence Professionals," *Journal of Policing, Intelligence, and Counterterrorism* (2023), https://doi.org/10.1080/18335330.2023.2187705.

Vogel, Kathleen M., "Comparative Analysis of Human Trafficking in Caribbean and African Islands from the annual *Trafficking in Persons Report*," *Journal of Global South Studies*, Special issue on Human Trafficking vol. 40, no. 1 (2023): 83-115, https://journals.upress.ufl.edu/jgss.

Gwendolynne Reid[+], Christopher Kampe[+], and Kathleen M. Vogel, "Tech Trajectories: A Methodology for Exploring the Tacit Knowledge of Writers Through Tool-Based Interviews," *Composition Forum* Special Issue vol. 49 (Summer 2022), https://compositionforum.com/issue/49/tech-trajectories.php

Vogel, Kathleen M. and Sonia Ben Ouagrham-Gormley, "Scientists as Spies? Assessing U.S. Claims about the Security Threat Posed by China's Thousand Talents Program for the U.S. Life Sciences," *Politics and the Life Sciences* (June 2022): 1-33, https://www.cambridge.org/core/journals/politics-and-the-life-sciences/article/abs/scientists-as-spies/DA5B1DD06F939076B5CD0D72423FB025.

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Vogel, Kathleen M. and Michael A. Dennis, "Tacit Knowledge, Secrecy, and Intelligence Assessments: STS Interventions by Two Participant-Observers," *Science, Technology, and Human Values* vol. 45, iss 5 (February 2018): 834-863, https://doi.org/10.1177/0162243918754673.

Hartney Swanson, Maureen[+] and Kathleen M. Vogel, "Big Data, Intelligence, and Analyst Privacy: Investigating Information Dissemination at an NSA-Funded Research Lab," *Intelligence and National Security* vol 33, no 3 (December 2017): 1-19, https://doi.org/10.1080/02684527.2017.1400234.

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Vogel, Kathleen M., "Revolution versus evolution?: Understanding scientific and technological diffusion in synthetic biology and their implications for biosecurity policies," *BioSocieties* vol. 9, iss. 4 (October 2014): 365-392, https://doi.org/10.1057/biosoc.2014.31.

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Vogel, Kathleen M., "The Need for Greater Multidisciplinary, Sociotechnical Analysis: The Bioweapons Case," *Studies in Intelligence* vol. 57, No. 3 (September 2013): 1-10, https://www.cia.gov/resources/csi/static/Need-for-Greater-Multidisciplinary.pdf.

Vogel, Kathleen M. and Sonia Ben Ouagrham-Gormley, "The Social Context Shaping Bioweapons (Non)Proliferation," *Biosecurity and Bioterrorism: Biodefense Strategy, Practice, and Science* vol. 8, no. 1 (March 2010): 9-24, https://doi.org/10.1089/bsp.2009.0054.

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Moffet, David A., Martin A. Case, John C. House, Kathleen Vogel, Robert D. Williams, Thomas G. Spiro, George L. McLendon, Michael H. Hecht, "Carbon Monoxide Binding by de Novo Heme Proteins Derived from Designed Combinatorial Libraries," *Journal of the American Chemical Society* vol. 123, no. 10 (2001): 2109-2115.

Kozlowski, Pawel M., Kathleen M. Vogel, Marek Z. Zgierski, Thomas G. Spiro, "Steric contributions to CO binding in heme proteins: a density functional analysis of FeCO vibrations and deformability," *Journal of Porphyrins and Phthalocyanines* vol. 5, iss. 3 (2001): 312-322.

Reynolds, Mark F., Ryan B. Parks, Judith N. Burstyn, Daniel Shelver, Marc V. Thorsteinsson, Robert L. Kerby, Gary P. Roberts, Kathleen M. Vogel, Thomas G. Spiro, "Electronic Absorption, EPR, and Resonance Raman Spectroscopy of CooA, a CO-sensing Transcription Activator from R. rubrum, Reveals a Five-Coordinate NO-heme," *Biochemistry* vol. 39, no. 2 (2000): 388-396.

Vogel, Kathleen M., Pawel M. Kozlowski, Marek Z. Zgierski, Thomas G. Spiro, "Role of the Axial Ligand in Heme-CO Backbonding; DFT Analysis of Vibrational Data," *Inorganica Chimica Acta* vol. 297, iss. 1-2 (2000): 11-17.

Vogel, Kathleen M., Songzhou Hu, Thomas G. Spiro, Elizabeth A. Dierks, Anita E. Yu, Judith N. Burstyn, "Variable Forms of Soluble Guanylyl Cyclase: Protein-Ligand Interactions and the Issue of Activation by Carbon Monoxide," *Journal of Biological Inorganic Chemistry* vol. 4, no. 6 (1999): 804-813.

Vogel, Kathleen M., Pawel M. Kozlowski, Marek Z. Zgierski, Thomas G. Spiro, "Determinants of the FeXO (X=C, N, O) Vibrational Frequencies in Heme Adducts from Experiment and Density Functional Theory," *Journal of the American Chemical Society* vol. 121, no. 43 (1999): 9915-9921.

Vogel, Kathleen M., Thomas G. Spiro, Daniel Shelver, Marc V. Thorsteinsson, Gary P. Roberts, "Resonance Raman Evidence for a Novel Charge Relay Activation Mechanism of the CO-Dependent Heme Protein Transcription Factor CooA," *Biochemistry* vol. 38, no. 9 (1999): 2679-2687.

Rojas, Nina R.L., Satwik Kamtekar, Cyrena T. Simons, Jeremy E. McLean, Kathleen M. Vogel, Thomas G. Spiro, Ramy M. Farid, Michael H. Hecht, "DeNovo Heme Proteins from Designed Combinatorial Libraries," *Protein Science* vol. 6, no. 12 (1997): 2512-2524.

Dierks, Elizabeth A., Songzhou Hu, Kathleen M. Vogel, Anita E. Yu, Thomas G. Spiro, Judith N. Burstyn, "Demonstration of the Role of Scission on the Proximal Histidine-Iron Bond in the Activation of Soluble Guanylyl Cyclase Through Metalloporphyrin Substitution Studies," *Journal of the American Chemical Society* vol. 119, no. 31 (1997): 7316-7323.

Hu, Songzhou, Kathleen M. Vogel, Thomas G. Spiro, "Deformability of Heme Protein CO Adducts: FT-IR Assignment of the FeCO Bending Mode," *Journal of the American Chemical Society* vol. 116, no. 24 (1994): 11187-11188.

Campbell, Douglas M., Frank J. Millero, Rabrindra N. Roy, Lakshmi N. Roy, Marcia Lawson, Kathleen M. Vogel, Catherine Porter Moore, "The Standard Potential for the Hydrogen-Silver, Silver-Chloride Electrode in Synthetic Seawater," *Marine Chemistry* vol. 44 (1993): 221-233.

Roy, Rabindra N., Lakshimi N. Roy, Kathleen M. Vogel, C. Porter Moore, Tara Pearson, Catherine E. Good, Frank J. Millero, Douglas M. Campbell, "The Dissociation Constants of Carbonic Acid in Seawater at Salinities 5 to 45 and Temperatures 0° to 45°C," *Marine Chemistry* vol. 44 (1993): 249-267.

Roy, Rabindra N., Lakshmi N. Roy, Marcia Lawson, Kathleen M. Vogel, C. Porter Moore, William Davis, Frank J. Millero, "Thermodynamics of the Dissociation of Boric Acid in Seawater at S=35 from 0° to 55°C," *Marine Chemistry* vol. 44 (1993): 243-248.

Roy, Rabindra N., C. Porter Moore, Monica N. White, Lakshmi N. Roy, Kathleen M. Vogel, David A. Johnson, Frank J. Millero, "Thermodynamic Properties of Aqueous Mixtures of HCl and $CoCl_2$ at Different Temperatures. Application of Pitzer's Formalism," *Journal of Physical Chemistry* vol. 96 (1992): 403-407.

Roy, Rabindra N., Kathleen M. Vogel, Catherine E. Good, William B. Davis, Lakshmi N. Roy, David A. Johnson, Andrew R. Felmy, Kenneth S. Pitzer, "Activity Coefficients in Electrolyte Mixtures: HCl + $ThCl_4$ + H_2O for 5° -55°C," *Journal of Physical Chemistry* vol. 96 (1992): 11065-11072.

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EDITED BOOKS

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- Jameson, Jessica Katz, Beverly B. Tyler, Kathleen M. Vogel, and Sharon S.B. Joines, "Facilitating Interdisciplinary Collaboration Among the Intelligence Community, Academy, Industry," Chapter 1, p. 3-20.
- Jameson, Jessica Katz, Kathleen M. Vogel, Beverly B. Tyler, and Sharon Joines, "Supporting Interdisciplinary Collaboration," Chapter 2, p. 21-54.
- Vogel, Kathleen M., Paul Jones, Matthew Schmidt, and Chris Argenta, "Supporting Collaboration and Discovery with Novel Computing Technologies," Chapter 6, p 173-200.
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BOOK CHAPTERS

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Vogel, Kathleen M., "Open Source Research and Intelligence," in *Open Source Investigations in the Age of Google*, Henrietta Wilson, Olamide Samuel and Dan Plesch (eds), (London: World Scientific

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MANUSCRIPTS UNDER REVIEW AND REVISION

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Gillum, David R and Kathleen M. Vogel, "Organizational Culture and Risk in High-Stakes Life Sciences Research," *Journal of Humanities and Social Sciences Communications*, under review, submitted June 2026.

Gillum, David R and Kathleen M. Vogel, "Biosecurity Governance in Practice," *Minerva*, under review, submitted May 2026.

WORKS-IN-PROGRESS

Vogel, Kathleen M., Sonia Ben Ouagrham-Gormley, Joy Zhang, Chris Kampe+, "Competition and Engagement: Delphi Survey Findings of U.S.-China Cooperation Related to Human Germline Genome Editing Science and Governance," article under development.

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DATASETS

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EDITORIAL/ADVISORY BOARDS

- Advisory Board member, for research study "A 'wet-lab' eval of LLMs' ability to uplift novices at dual-use virology," conducted by Panoplia Laboratories, June 2025 to present.
- Editorial Board member, *Science and Politics* (Science et Politique), Éditions Matériologiques (Paris), May 2025 to present.
- Executive Editorial Board member, "Sociotechnical Cyber Security," Bristol University Press, May 2023 to present.
- Editorial Board, *Intelligence and National Security*, January 2023-present.
- World Health Organization, Health Security Interface - Technical Advisory Group (HSI-TAG), September 2022-present.
    - Chair: Dual Use Research of Concern/Foresight Working Group, February 2023 to August 2025.
- Senior Editor, *IEEE Transactions on Technology and Society*, October 2023 to August 2025.
- Associate Editor, *IEEE Transactions on Technology and Society*, July 2022 to October 2023.
- Advisory Board member, Judith V. Reppy Institute of Peace and Conflict Studies, Cornell University, Fall 2021 to present.
- Editorial Advisor, *Secrecy and Society*, 2017 to present.
- Editorial Board, *Politics and the Life Sciences*, December 2016 to present.
- Editorial Board, *The Nonproliferation Review*, December 2011 to present.

EDITORIAL ROLES FOR SPECIAL ISSUE JOURNALS

- Joy Zhang (University of Kent, UK), Sonia Ben Ouagrham-Gormley (George Mason University), and Kathleen M. Vogel, editors, for a special issue on "How Do Scandals Shape the Understanding and Practice of Responsible Research and Innovation?" for the *Journal of Responsible Innovation*, forthcoming 2026.
- Roba Abbas (University of Wollongong, AU), Paul Jones (Alan Turing Institute), Kathleen M. Vogel, and Katina Michael, editors, for a special issue on "Socio-Technical Ecosystem Considerations: Threats and Opportunities for AI in Cybersecurity" for IEEE *Transactions on Technology and Society*, vol. 4, iss 2 (2023), https://technologyandsociety.org/tts-vol-4-issue-2-special-issue-on-socio-technical-ecosystem-considerations/
- Katina Michael, Roba Abbas (University of Wollongong, AU), Jeremy Pitt (Imperial College, UK), Kathleen Vogel, Mariana Zafeirakopoulos (University of Technology Sydney), editors for a special issue on, "Securitization for Sustainability of People and Place," for IEEE *Technology and Society Magazine* vol. 42, iss 2 (June 2023), https://ieeexplore.ieee.org/document/10174818.
- Kathleen M. Vogel, editor, for a special issue on biological weapons for *The Nonproliferation Review* vol. 27, iss 4-6 (2020), The Nonproliferation Review: Vol 27, No 4-6 (Current issue) (tandfonline.com). Vogel wrote an introduction to the special issue and provided editorial review of all 21 papers in the special issue.
- Kathleen M. Vogel and Elzbieta Gozdziak (Georgetown University) were co-editors for a special issue of the *Journal of Human Trafficking* vol. 6 no (2020), Journal of Human Trafficking: Vol 6, No 2 (tandfonline.com): "Palermo at 20: A Retrospective and Prospective." Vogel and Gozdziak wrote an introduction to the special issue and provided editorial review of all 12 papers in the special issue.
- Kathleen M. Vogel and Brian Balmer (University College London) served as co-editors for a special issue of the journal *Secrecy and Society* (vol. 2, iss. 1, 2018): "Secrecy and Intelligence." Vogel and Balmer wrote an introduction to the special issue, and provided editorial review of all eight papers in the special issue: https://scholarworks.sjsu.edu/secrecyandsociety/vol2/iss1/

- Kathleen M. Vogel, Amanda J. Ozin, and Jonathan E. Suk served as co-editors for a special issue of *Frontiers in Public Health* (May 2015): "Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenge." The editors wrote an introduction to the special issue and provided editorial review of all 19 papers in the special issue: https://www.frontiersin.org/research-topics/2211/dual-use-life-science-research-and-biosecurity-in-the-21st-century-social-technical-policy-and-ethic#articles

BOOK REVIEWS

Vogel, Kathleen M., Roundtable 11-13 on *Global Data Shock: Strategic Ambiguity, Deception, and Surprise in an Age of Information Overload* for *H-Diplo-ISSF* (March 13, 2020), available at: https://issforum.org/roundtables/11-13-data.

Vogel, Kathleen M., Book Review of Patrick F. Walsh, *Intelligence, Biosecurity, and Bioterrorism,* in *Intelligence and National Security* (May 2019): 1-3, DOI: 10.1080/02684527.2019.1622265.

Vogel, Kathleen M., "Rhodesia's Improbably Dirty War," *Survival*, vol. 60, iss. 6 (2018): 199-206.

Vogel, Kathleen M., Book Review: "Assessing the Legacy of The Soviet Bioweapons Program," *The Nonproliferation Review* vol. 19, no. 3 (November 2012): 473-480.

CREATIVE WORKS

Slava Paperno, Slavomir Grunberg, Sonia Ben Ouagrham-Gormley, and Kathleen M. Vogel, "The Anthrax Diaries: An Anthropology of Biological Warfare," https://russian.cornell.edu/bio/cfm/home.cfm?Lang=E&AccessCode=2000300040005000&Bandwidth=large.

OTHER PUBLICATIONS

Hussein A. Abbass, Kathleen M. Vogel, and Katina Michael "Special Issue Editorial: Intelligence Analysis with AI-Double-Edge Sword" *IEEE Technology and Society Magazine*, forthcoming.

Goodman, Michael, Celia Parker-Vincent, and Kathleen M. Vogel, "Anglo-American Intelligence to 2030 and Beyond – Trials, Tribulations, and Targets," *Insights,* King's Centre for the Study of Intelligence's blog, King's College London, forthcoming.

Gillum, David, R., Randy A. Albrecht, Rebecca Caruso, Amanda Craigen, Lesley Decker, Haley L. DeMers, Colleen Driskill, Robert Foreman, Deborah Howard, Barbara Johnson, Jens H. Kuhn, Yong-Bee Lim, Rebecca L. Moritz, Corrie Ntiforo, Luis Alberto Ochoa Carrera, Gregory Park, Christina L. Pier, Antony Schwartz, Adrian Self, Megan Shoff, Paul Skoglund, Mary Turlington-Powell, Hsiang-Ming Wang, and Kathleen M. Vogel, "Addressing Biosecurity Barriers in High-Risk Biological Research," *Health Security* (2026), https://doi.org/10.1177/23265094261447176

Gillum, David R., and Kathleen M. Vogel. (2026) White Paper on Repositioning Biosafety From a Compliance Burden to National Strategic Infrastructure. Futuring Governance Series. Canterbury, Kent: Centre for Global Science and Epistemic Justice (GSEJ), https://research.kent.ac.uk/global-science-and-epistemic-justice/wp-content/uploads/sites/2610/2026/04/WP-on-Repositioning-Biosafety-From-a-Compliance-Burden-to-National-Strategic-Infrastructure.pdf.

Gillum, David R., Anemone Franz, An Tran, and Kathleen Vogel, "A Goldilocks approach to centralization of high-risk pathogen research," *STATNews* (January 22, 2026), https://www.statnews.com/2026/01/22/high-risk-pathogen-research-centralization-concerns/.

Vogel, Kathleen M., "AI and bio-threat assessments," for special issue on intelligence and foresight, *Baltic Rim Economies Review* (January 2026), https://www.centrumbalticum.org/en/publications/baltic_rim_economies/baltic_rim_economies_1_2026_-_intelligence_and_foresight/kathleen_m._vogel_ai_and_bio-threat_assessments.

Gillum, David R., Arthur Daemmrich, and Kathleen M. Vogel, "A New Social Compact to Grapple with "Mirror Life" (October 28, 2025), Futuring Governance Series. Canterbury: Centre for Global Science and Epistemic Justice (GSEJ), https://blogs.kent.ac.uk/global-science-and-epistemic-justice/files/2025/10/A-New-Social-Compact-to-Grapple-with-Mirror-Life-1.pdf.

Cross, Glenn A., Jeffrey Bale, Herbert Tinsley, and Kathleen M. Vogel, "Potential for Biological Weapons Use in Apocalyptic Violence: Apocalyptic and Millennial Groups and Biological Weapons Use in the 21st Century" (January 2025), report for Open Philanthropy Foundation.

Abbas, Roba, Katina Michael, Jeremy Pitt, Kathleen M. Vogel, and Marina Zafeirakopoulos, "Socio-Technical Ecosystem Considerations: Threats and Opportunities for AI in Cybersecurity" (London: The Alan Turing Institute, November 2023), https://www.turing.ac.uk/news/publications/artificial-intelligence-ai-cybersecurity-socio-technical-research-roadmap.

Gillum, David+, Itty Abraham, and Kathleen M. Vogel, "Nuclear safety staffing in the United States: a crisis with no easy fix," *Bulletin of the Atomic Scientists* (July 14, 2023), https://thebulletin.org/2023/07/nuclear-safety-staffing-in-the-united-states-a-crisis-with-no-easy-fix/.

Michael, Katina, Roba Abbas, Jeremy Pitt, Kathleen M. Vogel, and Mariana Zafeirakopoulos, "Securitization for Sustainability of People and Place," *IEEE Technology and Society Magazine* (July 7, 2023), https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10174818.

Michael, Katina, Roba Abbas, Jeremy Pitt, Kathleen Vogel, and Mariana Zafeirakopoulos, editorial, "Securitization for Sustainability of People and Place," for IEEE *Technology and Society Magazine* vol. 42, iss 2 (June 2023): 22-28, https://ieeexplore.ieee.org/document/10174818.

Zhang, Joy Y., Kathleen M. Vogel, and Sonia Ben Ouagrham-Gormley, "How Chinese Academics Became a Force for Good Governance," *Issues in Science and Technology* vol. XXXIX, no. 4 (Summer 2023), https://issues.org/chinese-academics-good-governance-zhang-ouagrham-gormley-vogel/.

Zhang, Joy Y., Ruipeng Lei, Kathleen Vogel, Sonia Ben Ouagrham-Gormley, *Looking Back into the Future: CRISPR and Social Values: BioGovernance Common's Open Discussion with Chinese Academics* (Canterbury: Centre for Global Science and Epistemic Justice, University of Kent, February 2023), https://blogs.kent.ac.uk/global-science-and-epistemic-justice/2023/02/13/report-release-looking-back-into-the-future-crispr-and-social-values/#.

Vogel, Kathleen M., "Combating Human Trafficking in the Americas: 2022 TIP Report Findings," *Human Rights and International Humanitarian Law Seminar 2022* (Washington DC: Inter-American Defense College, 2022), https://publications.iadc.edu/wp-content/uploads/sites/6/proceedings/Derechos_Humanos_2022_.pdf.

Lim, Yong-Bee, Kathleen M. Vogel, and David Gillum+, "Preparing for Twenty-First-Century Bioweapons, *Issues in Science and Technology* (December 8, 2022), https://issues.org/bioweapons-biological-weapons-convention-bwc-ngos/.

Gillum, David+ and Kathleen M. Vogel, "After the fact: Another controversial virus study raises questions

about US government oversight," *Bulletin of the Atomic Scientists* (October 28, 2022), https://thebulletin.org/2022/10/after-the-fact-another-controversial-virus-study-raises-questions-about-us-government-oversight/#post-heading.

Zhang, Joy, Y., Sonia Ben Ouagrham-Gormley, and Kathleen M. Vogel, "Creating Common Ground with Chinese Researchers," *Issues in Science and Technology* vol. 38, no. 4 (Summer 2022), https://issues.org/common-ground-chinese-researchers-biogovernance/.

Gillum, David[+], Rebecca Moritz, Yong-Bee Lim, Kathleen M. Vogel, "Charting a new course for biosafety in a changed world," *Issues in Science and Technology* (May 23, 2022), https://issues.org/new-course-biosafety-prevent-pandemics-gillum-moritz-lim-vogel/.

Vogel, Kathleen M., "Combating Human Trafficking in the Americas: 2021 TIP Report Findings," *Human Rights and International Humanitarian Law Seminar 2021* (Washington DC: Inter-American Defense College, 2022), http://publications.iadc.edu/proceedings/human-rights-and-international-humanitarian-law-2021-4/.

Lim, Yong-Bee, David Gillum[+], Kathleen M. Vogel, "Twenty Years After the Patriot Act, What Is the Future of Biosecurity?," *Issues in Science and Technology* (October 25, 2021), https://issues.org/biosecurity-20-years-after-patriot-act-lim-gillum-vogel/.

Gillum David[+], Kathleen M. Vogel, and Rebecca Moritz, "Reporting all biosafety errors could improve labs worldwide – and increase public trust in biological research," *The Conversation* (October 12, 2021), https://theconversation.com/reporting-all-biosafety-errors-could-improve-labs-worldwide-and-increase-public-trust-in-biological-research-168552.

Vogel, Kathleen M., "Combating Human Trafficking in the Americas: 2020 TIP Report Findings," *Human Rights and International Humanitarian Law Seminar 2020* (Washington DC: Inter-American Defense College, 2021), http://publications.iadc.edu/ebook/human-rights-and-international-humanitarian-law-seminar-2020/.

Vogel, Kathleen M., "Introduction to the special issue in honor of Raymond A. Zilinskas," *The Nonproliferation Review*, vol. 27, iss 4-6 (2020): 263-266, DOI: 10.1080/10736700.2020.1889105.

Ben Ouagrham-Gormley, Sonia and Kathleen M. Vogel, "Follow the money: What the sources of Jianke He's funding reveal about what Beijing authorities knew about illegal CRISPR babies, and when they knew it," *Bulletin of the Atomic Scientists* vol. 76, iss 4 (July 20, 2020): 192-199, https://thebulletin.org/2020/07/follow-the-money-what-the-sources-of-jiankui-hes-funding-reveal-about-what-beijing-authorities-knew-about-illegal-crispr-babies-and-when-they-knew-it/.

Ellison, Mary C. and Kathleen M. Vogel, *Human Trafficking Trends in the Western Hemisphere* (Washington, DC: William J. Perry Center, National Defense University, June 2020), http://williamjperrycenter.org/sites/default/files/publication_associated_files/Human%20Trafficking%20Trends%20in%20the%20Western%20Hemisphere.pdf.

Gozdziak, Elzbieta M. and Kathleen M. Vogel, "Palermo at 20: A Retrospective and Prospective," *Journal of Human Trafficking* vol. 6, no. 2 (2020): 109-118.

Lynch, Sean, Paul Jones[+], and Kathleen M. Vogel, "Smart Digital Assistance for Intelligence Analysis," *The Next Wave* vol. 22, no. 2 (2019): 30-35, available at: https://www.nsa.gov/Portals/70/documents/resources/everyone/digital-media-center/publications/the-

next-wave/TNW_22-2.pdf?ver=2019-02-25-104515-237.

Vogel, Kathleen M. and Brian Balmer, "Secrecy and Intelligence: Introduction," *Secrecy and Society* vol. 2, no. 1 (2018): 1-19.

Vogel, Kathleen M. and Students from PLCY 306, "Crispr goes global: A snapshot of rules, policies, and attitudes," *Bulletin of the Atomic Scientists* (5 June 2018), available at: https://thebulletin.org/crispr-goes-global-snapshot-rules-policies-and-attitudes11873.

Ben Ouagrham-Gormley, Sonia and Kathleen M. Vogel, "Gene Drives: The Good, The Bad, The Hype," *Bulletin of the Atomic Scientists* vol. 72 (October 2016), available at: http://thebulletin.org/gene-drives-good-bad-and-hype10027.
Vogel, Kathleen M., "Does Chicken Little Always Have to Shape Bioterrorism Policy?" *The Nonproliferation Review* vol. 22, no. 2 (June 2015): 121-122.

Vogel, Kathleen M., Amanda J. Ozin, and Jonathan E. Suk, "Biosecurity and dual-use research: gaining function—at what cost?" *Frontiers in Public Health* (02 February 2015), available at: https://www.frontiersin.org/articles/10.3389/fpubh.2015.00013/full.

Vogel, Kathleen M., Sonia Ben Ouagrham-Gormley, Slawomir Grunberg, and Slava Paperno, "A Man Named Guenna," *Cultures* vol. 1, issue 4 (Autumn 2014): 76-85.

Vogel, Kathleen M. "Big Data, and the Invisible, Social Dimensions of Science," *Conference Proceedings of the Human-Centered Big Data Research*, Raleigh, NC, April 1-3, 2014, ASM (New York, NY, 2014): 1-3.

Vogel, Kathleen M., "Intelligent assessment: Putting emerging biotechnology threats in context," *Bulletin of the Atomic Scientists* vol. 69, no. 1 (January 2013): 43-52.

Vogel, Kathleen M., Op-Ed – Improving Intelligence on Emerging Bioweapons Threats: New Engagements Needed Between Intelligence and Academia, Virtual Biosecurity Center (16 January 2013), available at: http://www.virtualbiosecuritycenter.org/blog/op-ed-improving-intelligence-on-emerging-bioweapons-threats-new-engagements-needed-between-intelligence-and-academia.

Vogel, Kathleen M., Op-Ed – Making Anthrax, Virtual Biosecurity Center (8 November 2011), http://www.virtualbiosecuritycenter.org/blog/op-ed-%e2%80%94-making-anthrax.

Frerichs, Rebecca L., Reynolds M. Salerno, Kathleen M. Vogel, Natalie B. Barnett, Jennifer Gaudioso, Lauren T. Hickok, Daniel Estes, and Danielle F. Jung, *Historical Precedence and Technical Requirements of Biological Weapons Use: A Threat Assessment, SAND 2004-1854* (Albuquerque: International Security Initiatives, Sandia National Laboratories, May 2004).

Ben Ouagrham, Sonia and Kathleen M. Vogel, *Conversion at Stepnogorsk: What the Future Holds for Former Bioweapons Facilities*, *Cornell University Peace Studies Occasional Paper #28* (Ithaca: Cornell University Peace Studies Program, February 2003).

Cameron, Gavin, Jason Pate, and Kathleen Vogel, "Planting Fear: How Real is the Threat of Agricultural Bioterrorism?" *Bulletin of the Atomic Scientists* vol. 57, no. 5 (September/October 2001): 38-44.

FELLOWSHIPS AND GRANTS RECEIVED

Total Funding to Kathleen M. Vogel as PI or Co-PI: $7,222,042 [Note: Served as Co-PI on an

Intelligence Community Centers for Academic Excellence (IC-CAE) institutional grant with North Carolina State University, Duke University, University of North Carolina-Chapel Hill, and North Carolina Central University, September 2014 to August 2019, to create intelligence studies educational programs, courses, and activities across each of the campuses, $1.86 million, in addition to what is listed below].

- 2024 Security and Defence PluS Alliance seed grant for project, "Fundamental Understanding of the Disruptive Dynamics Caused by Artificial Intelligence and Swarm Systems on the Intelligence Community and Global Security," $10,000, 33% of award to Kathleen M. Vogel, (in collaboration with Katina Michael, ASU and Hussein Abbass, University of New South Wales, Australia), June 2024-December 2024.
- National Endowment of the Humanities, "AI and the Future of Intelligence Analysis," $74,928, 100% of award to Kathleen M. Vogel, August 1, 2024 to July 31, 2026. [Note: in April 2025 this grant was terminated by DOGE under the Trump Administration]
- National Institutes of Health, "Assessing U.S. Biosafety and Biosecurity Compliance for Potential Pandemic Pathogens," $867,382, 100% of award to Kathleen M. Vogel, May 1, 2023 to April 30, 2026 (in collaboration with David Gillum, University of Nevada, Reno).
- U.S. Department of State, "Fellowship for Afghan Nuclear Scientists-in-Exile," $796,657, 20% of award to Kathleen M. Vogel (lead PI), July 1, 2023-September 30, 2024 (in collaboration with Itty Abraham, Faheem Hussain, Pamela DeLargy, Mary Turlington-Powell).
- U.S. Department of State, "Fellowship for Afghan Chemical and Biological Scientists in Exile," $1,299,894, 20% of award to Kathleen M. Vogel (lead PI), July 1, 2023-September 30, 2024 (in collaboration with Craig Woods, Faheem Hussain, Pamela DeLargy, Mary Turlington-Powell).
- U.S. Department of Defense, June 1, 2023 to May 31, 2024; $1,498,299; 33% of the award to Kathleen M. Vogel (lead PI) (in collaboration with George Poste, Craig Woods, and Glenn Cross).
- Good Ventures Foundation, "Apocalyptic Millenarian Groups and Use of CBW Agents," $354,750; 100% of award to Kathleen M. Vogel (lead PI), January 1, 2023-January 31, 2025 (in collaboration with Glenn Cross, Jeffrey Bale, and Herbert Tinsley).
- Good Ventures Foundation, "The Rise ln Use Of Chemical Biological Weapons Agents ln Assassinations," $354,749; 100% of grant awarded to Kathleen M. Vogel (lead PI), September 1, 2022 to December 31, 2024 (in collaboration with Glenn Cross).
- The Alan Turing Institute, "Socio-Technical Ecosystem Considerations: Threats and Opportunities for AI in Cybersecurity," $124,883, 50% of grant awarded to Kathleen M. Vogel (lead PI), October 15, 2022-February 14, 2023, (in collaboration with Roba Abbas, AU; Katina Michael, ASU; Jeremy Pitt, UK, and Marina Zafeirakopoulos, AU).
- U.S. Department of State/U.S. Embassy Beijing, "Creating a Bio-Governance Commons," $18,840; 100% of grant awarded to Kathleen M. Vogel (lead PI), September 1, 2021-August 31, 2022, (in collaboration with Joy Zhang, University of Kent, UK and Sonia Ben Ouagrham-Gormley, George Mason University).
- U.S. National Science Foundation, "Standard: Ethical Issues Surrounding Human Germline Genome Editing in China's Global Scientific Strategy," $399,165; grant awarded to Kathleen M. Vogel (lead PI), with a subaward to GMU; 52% of grant funds to Vogel ($209,182), September 1, 2019-August 31, 2024 (in collaboration with Sonia Ben Ouagrham-Gormley, George Mason University).
- U.S. Air Force, "Assessment of CRISPR in China," $156,309; grant awarded to Sonia Ben Ouagrham-Gormley, George Mason University (GMU), with a sub-award to Kathleen M. Vogel; 50% split in grant funds ($78,154 each) between GMU and UMD/Vogel, June 1, 2018-May 31, 2020.
- Rutherford Fellow, Alan Turing Institute, London, UK, £63,450 (USD $83,200); 100% of grant awarded to Kathleen M. Vogel, March 2018-March 2019.
- University of Maryland RASA fellowship, summer 2018 research, $9,000; 100% of grant awarded to Kathleen M. Vogel
- Ottawa Workshop on Strategic Foresight: Charting the Future of Technology and National Security and Defence Priorities, submission by Carleton University, University of Maryland, and Pherson

Associates (USA), November 10, 2017, $16,500; collaborative grant awarded to Carleton University; 100% of grant to Carleton University, Ottawa, Canada.

- North Carolina State University/University of Maryland, LAS DO7 Task Order: Collaboration," Laboratory for Analytic Sciences, $113,843; 100% of grant awarded to Kathleen M. Vogel, January 1, 2017 to December 31, 2017,
- North Carolina State University, "LAS DO6 Task Order: Behavior Modeling," Laboratory for Analytic Sciences, $96,516; 100% of grant awarded to Kathleen M. Vogel, January 1, 2016 to December 31, 2016,
- North Carolina State University, "LAS DO5 Task Order 5.6 Collaboration," Laboratory for Analytic Sciences, $70,850; 100% of grant awarded to Kathleen M. Vogel, April 1, 2015 to March 31, 2016.
- North Carolina State University, Scholarship and Research Award, "The Anthrax Diaries," $3,738; 100% of grant awarded to Kathleen M. Vogel, October 2014 to May 2015.
- National Science Foundation, "Workshop: Developing New Methods and Analytic Networks for Researching Intelligence Communities and De-Classified National Security Documents," $24,938; 100% of grant awarded to Kathleen M. Vogel, September 2014-December 2015.
- North Carolina State University, "LAS DO3 Task Order 2.1 Collaboration," Laboratory for Analytic Sciences, $52,889; 100% of grant awarded to Kathleen M. Vogel, May 1, 2014 to March 31, 2015.
- National Science Foundation, "Improving Intelligence: A New Dialogue Between S&TS Scholars and Intelligence Analysts," $85,000; 100% of grant awarded to Kathleen M. Vogel, July 2012-June 2014.
- Cornell University, Cornell Institute for European Studies Innovation Fund, "Making Anthrax," film documentary on U.S. and Soviet bioweapons programs, $6,000; 100% of grant awarded to Kathleen M. Vogel, Summer 2012.
- Cornell University, Center for Teaching Excellence, "Making Anthrax," film documentary on U.S. and Soviet bioweapons programs, $1,400; 100% of grant awarded to Kathleen M. Vogel, fall 2011.
- Senior Fellow, Woodrow Wilson Center International Center for Scholars, Washington, DC, $85,300; 100% of fellowship awarded to Kathleen M. Vogel, September 2011-May 2012.
- Cornell University, Department of Science and Technology Studies, "Making Anthrax," film documentary on U.S. and Soviet bioweapons programs, $2,500; 100% of grant awarded to Kathleen M. Vogel, fall 2011.
- Federation of American Scientists, Virtual Biosecurity Center, "Making Anthrax," film documentary on U.S. and Soviet bioweapons programs, $30,000; 100% of grant awarded to Kathleen M. Vogel, July 2011-December 2011.
- Cornell University, Einaudi Center for International Studies Seed Grant, "Making Anthrax," pilot film documentary on U.S. and Soviet bioweapons programs, $4,000; 100% of grant awarded to Kathleen M. Vogel, November 2010-December 2011.
- Carnegie Corporation of New York, "Living Legacy: An Oral History of U.S. and Soviet Bioweaponeers and Its Implications for Understanding Past, Present, and Future Biosecurity Threats," $290,000; 100% of grant awarded to Kathleen M. Vogel, January 2008-December 2011.
- Mellon Humanities Project, Interface of Humanities and Sciences/Technology Cluster, "Biosecurity Threats: Risks, Assessments, and U.S. Preparedness," $5,000; 100% of grant awarded to Kathleen M. Vogel, April-October 2007.
- Ploughshares Fund grant, "Assessing the Bioterrorism Threat from Dual-use Biotechnology," $23,656; 100% of grant awarded to Kathleen M. Vogel, December 2005-December 2006.
- William C. Foster Fellowship, U.S. Department of State, $52,727; 100% of grant awarded to Kathleen M. Vogel, January 2003-January 2004.
- Ed A. Hewett Fellowship, National Council for Eurasian and East European Research (NCEEER), $60,000; 100% of grant awarded to Kathleen M. Vogel, January 2002-December 2002.
- Carnegie Scholar, Carnegie Corporation of New York, for project, "A Plague Upon the Nations: Proliferation Concerns from the Former Soviet Bioweapons Complex," $78,400; 100% of grant awarded to Kathleen M. Vogel, June 2000-May 2002.

- Grant (with Judith Reppy, Cornell) from Lawrence Livermore National Laboratory for the workshop, "Agro-Terrorism: What is the Threat?" Cornell University, Ithaca, NY, $30,709; grant awarded to Kathleen M. Vogel (post-doc) and Judith Reppy (professor), March 2000-July 2001.
- Union of Concerned Scientists (with Milton Leitenberg), Bioweapons scoping study, $10,000; 50% of grant ($5000) awarded to Kathleen M. Vogel, March-May 2001.
- United States Institute of Peace grant for project, "A Plague Upon the Nations: Proliferation Concerns from the Former Soviet Bioweapons Complex," $30,000; 100% of grant awarded to Kathleen M. Vogel, May 2000-December 2001.

AWARDS/RECOGNITION RECEIVED

- 2026 Global National Security Institute Fellow, University of South Florida, May 2026.
- 2023 Irregular Warfare Initiative Non-Resident Fellow, a joint collaboration of Princeton University's Empirical Studies of Conflict Project and the Modern War Institute at West Point.
- 2021 Director's Service Award, School for the Future of Innovation in Society, Arizona State University.
- 2019 U.S. Department of State Appreciation Award, Office to Monitor and Combat Trafficking in Persons.
- Rutherford Fellowship, The Alan Turing Institute, London, UK, March 2018-March 2019.
- 2018 U.S. Department of State Appreciation Award, Office to Monitor and Combat Trafficking in Persons.
- U.S. National Academies of Science and U.S. Department of State, Jefferson Science Fellowship, August 2016-July 2017.
- Outstanding Advisor Award, College of Humanities and Social Sciences, North Carolina State University, May 2016.
- Andrew Carnegie Scholar, Inaugural Class, 2000, Carnegie Corporation of New York Awards $1.1 Million to the First Class of Carnegie Scholars : News | Carnegie Corporation of New York.

INVITED TALKS (selected)

"Assessing Biosecurity Threats: A Socio-Technical Approach," 4th Biosecurity Symposium, ABSA International, May 12, 2026 (Zoom).

"Perspectives on Mirror Life Controversy," Harvard-Yale Biosafety Symposium, Harvard University, May 4-5, 2026, Cambridge, MA.

"How to Prevent Intelligence Failure," Inside Intelligence webinar, Johns Hopkins University, March 18, 2026 (Zoom).

"Biosafety and Biosecurity: A U.S. and International Perspective," Universidad Nacional Autónoma Altoandina de Tarma, Peru, July 16, 2025.

Panelist, Oxford Emerging Threats Panel On Dual Use Technologies, Oxford, UK, June 9, 2025, (Zoom).

"The Intelligence Community is Broken: A Roadmap to Achieve Real Analytical Reform," Intelligence Studies Summit, National Intelligence University, Washington, DC, March 14, 2025, https://www.ni-u.edu/ISS/.

Panelist, Defence Innovation: Integrating Emerging Technologies and Talent, Athena Series: Women in Strategy Conference, Arizona State University, Tempe, AZ, March 11, 2025.

"Big Data, AI, and the Future of the U.S. Intelligence Workforce," International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria, March 3, 2025.

"Assessing Security Threats and Intelligence Problems: A Socio-Technical Approach," Hamilton Lugar School of Global and International Studies, Indiana University, Bloomington, IN, December 11, 2024.

"Assessing Biosecurity Threats: A Socio-Technical Approach," School of Public Health, Brown University, Providence, RI, November 12, 2024.

National Academies of Sciences, Engineering, and Medicine, "Assessing Security Concerns about China's Talent Programs," for their consensus study, "International Talent Programs in the Changing Global Environment," Zoom, December 8, 2023.

"Findings from Pilot Study on US Scientists' Attitudes Towards Collaborating with China on Genome Editing," Circular Bio-economy panel, 4th International Symposium on Zymomonas mobilis (INSZMO-2023), Chengdu, China, September 17, 2023.

"State-Sponsored Assassinations and How They Challenge the CW Norm," Center for Security Studies (CSS), ETH, Zurich, Switzerland, July 10, 2023.

"How can we bring science and technology into intelligence curricula?" Workshop on Teaching Intelligence, Central Florida Intelligence Community Center for Academic Excellence, May 11, 2023 (Zoom).

"Science, Technology, and Security: Knowledge Production and Policy," Implications, Department of Political Science, University of Notre Dame, South Bend, IN, April 12, 2023.

Global (Dis)Order? The Future of Governance and Geopolitics, Global Futures Conversations, Arizona State University, Tempe, AZ, April 10, 2023.

"Assessing U.S. Biosafety and Biosecurity Compliance for Potential Pandemic Pathogen Research and Dual Use Research of Concern," International Working Group on Strengthening the Culture of Biosafety and Biosecurity and Responsible Conduct in the Life Sciences, Zoom presentation with David Gillum, March 28, 2023.

"How do Emerging Technologies Become Emerging Threats?" National Defense University, Washington, DC, October 27, 2022.

"Caribbean Regional Trends to Combat Human Trafficking," Human Rights and International Humanitarian Law Seminar, Inter-American Defense College, Zoom presentation, October 21, 2022.\

"Assessing U.S. Biosafety and Biosecurity Compliance for Potential Pandemic Pathogen Research and Dual Use Research of Concern," David Gillum and Kathleen M. Vogel, Biosecurity Conference, Arizona State University, SkySong Bldg, Scottsdale, AZ, October 20, 2022.

"China and Biosecurity/Bioeconomy," Kathleen M. Vogel, Sonia Ben Ouagrham-Gormley, Ed You, and Gerald Epstein, Biosecurity Seminar (Kenneth Oye and Gigi Kwik-Gronvall), October 4, 2022 (Zoom presentation).

"Western Hemisphere/Caribbean Regional Trends and Coordination to Combat Human Trafficking," Caribbean Area Studies Seminar, Foreign Service Institute, Zoom presentation, September 1, 2022.

"Western Hemisphere/Caribbean Regional Trends and Coordination to Combat Human Trafficking," Caribbean Area Studies Seminar, Foreign Service Institute, Zoom presentation, June 30, 2022.

"Western Hemisphere/Caribbean Regional Trends and Coordination to Combat Human Trafficking," Caribbean Area Studies Seminar, Foreign Service Institute, Zoom presentation, February 24, 2022..

"How are emerging technologies (re)-shaping the security landscape? Centre for Science and Security Studies (CSSS), Department of War Studies, King's College London, UK, Zoom presentation, January 19, 2022.

"Biosecurity: What are we missing?," BioRAFT Environmental Health and Safety Community Connection Webinar Series, November 4, 2021, EHS Community Connection Webinars (bioraft.com) (Zoom presentation).

"Western Hemisphere/Caribbean Regional Trends and Coordination to Combat Human Trafficking," Caribbean Area Studies Seminar, Foreign Service Institute, Zoom presentation, October 21, 2021.

"Human Trafficking in the Americas," Human Rights and International Humanitarian Law Seminar, Inter-American Defense College, Zoom presentation, October 22, 2021.

"Lab Leak Case Study," STS Summer School @ Harvard, Harvard University, Cambridge, MA, Zoom presentation, August 3, 2021.

"USG Policy & Practice in the Caribbean Region," Caribbean Area Studies Seminar, Foreign Service Institute, Arlington, VA, Zoom presentation, July 1, 2021.

"Secrecy & U.S. Nuclear Weapons," (with Alex Wellerstein and Erik Arnesen), Washington History Seminar: Historical Perspectives on International and National Affairs," The Wilson Center, Washington, DC, Zoom presentation, May 10, 2021, Secrecy and U.S. Nuclear Weapons | C-SPAN.org.

"Western Hemisphere Regional Trends and Coordination to Combat Human Trafficking," (with Rebecca Morgan), Caribbean Area Studies Seminar, Foreign Service Institute, Arlington, VA, Zoom presentation, March 2, 2021.

"Algorithms that Empower: ACS and the Future of Intelligence Analysis," IEEE ISTAS20, Zoom presentation, November 15, 2020.

"Human Trafficking in the Americas," Human Rights and International Humanitarian Law Seminar, Inter-American Defense College, Zoom presentation, October 28, 2020.

"Western Hemisphere Regional Trends and Coordination to Combat Human Trafficking," (with Rebecca Morgan), Caribbean Area Studies Seminar, Foreign Service Institute, Arlington, VA, Zoom presentation, June 25, 2020.

"Western Hemisphere Regional Trends and Coordination to Combat Human Trafficking," (with Mary Ellison), Caribbean Area Studies Seminar, Foreign Service Institute, Arlington, VA, August 21, 2019.

"Intelligence-Academia Engagement," Department of War Studies, King's College, London, UK, May 16, 2019.

"Big Data, Privacy, and the U.S. Intelligence Workforce," Judith V. Reppy Institute for Peace and Conflict Studies, Cornell University, April 25, 2019.

"Methods," Triangle Institute for Security Studies, Intelligence Community Center for Academic Excellence Conference, TISS at Sixty: Intelligence in a National Security Context, University of North Carolina, Chapel Hill, North Carolina. April 13, 2019.

"Tackling the Challenges of Intelligence Analysis with Workplace Productivity Software," The Alan Turing Institute, London, UK, March 20, 2019.

"Anticipating Emerging Biotechnology Threats: A Case Study of CRISPR," Jonathan B. Tucker CBW Symposium, National Defense University, Washington, DC, delivered via Zoom from London, England, December 13, 2018.

"Anticipating Emerging Biotechnology Threats: A Case Study of CRISPR," Symposium: Human Germline Editing—Perspectives of Global Regulation, University of Heidelberg, Heidelberg, Germany, November 14, 2018.

"Anticipating Emerging Biotechnology Threats: A Case Study of CRISPR," International Studies Research Unit, School of Law and Politics, Cardiff University, Cardiff, England, October 31, 2018.

"Anticipating Emerging Biotechnology Threats: A Case Study of CRISPR," (with Sonia Ben Ouagrham-Gormley), UK Defence Science and Technology Laboratory, Porton Down, England, October 23, 2018.

"Bringing the National Security Agency into the Classroom: Ethical Reflections on Academia-Intelligence Agency Partnerships," Department of Science and Technology Studies, University College London, London, UK, October 10, 2018.

"How to Evaluate Current and Prospective Biological Weapons Threats," Roundtable on current and prospective biological terror threats as well as the role analytical frameworks play in the analysis of those threats, National Counterterrorism Center, McLean, VA, March 8, 2018.

"Anticipating Emerging Biotechnology Threats," Ottawa Workshop on Strategic Foresight: Charting the Future of Technology and National Security, Carleton University, Ottawa, Canada, November 10, 2017.

"Biosecurity," Making the Living World Engineerable: Science, Practice, and Policy, National Academy of Sciences, Engineering, and Medicine, Washington, DC, November 16, 2016.

"Ethics and Big Data Analytics: Bringing NSA into the Classroom," Department of Science, Technology, and Society, Virginia Polytechnic Institute and State University, Blacksburg, VA, November 4, 2016.

"Biotechnology and Bioterrorism: Re-Conceptualizing Bioweapons Threats," Animal and Plant Health Inspection Service/USDA, Riverdale, MD, September 27, 2016.

"Improving Threat Assessment," Dogs that Haven't Barked: Towards an Understanding of the Absence of Technological Threats, Lawrence Livermore National Laboratory, Livermore, CA, July 7, 2016.

"Oral History of the US and Soviet Bioweapons Programs: How Memory of the Past can Inform Current International Security Problems," (with Sonia Ben Ouagrham-Gormley), History, Security, and Arms Control Workshop, University College London, London, UK, June 22, 2016.

"New Technologies of Mass Destruction," Tobin Project Meeting on Reassessing Threat Assessment, Washington, DC, May 20, 2016.

"Biosecurity and CRISPR," Keynote talk for The Three Is & Biosecurity, The Carolina Inn, Chapel Hill, NC, April 14, 2016.

"Biotechnology and Bioterrorism: Re-Conceptualizing Bioweapons Threats," Center for Global Security Research, Lawrence Livermore National Laboratory, Livermore, CA, September 4, 2015.

"Biological Warfare and Terrorism," 7th Annual Center on Irregular Warfare and Armed Groups (CIWAG) Symposium, Irregular Warfare and Armed Groups: Retrospect and Prospect, United States Naval War College, Newport, Rhode Island, June 23-24, 2015.

"How to Analyze and Weigh the Validity of Information Generated by Insider Accounts," Open-Source Tools for the Assessment of Compliance with the Biological Weapons Convention, Expert workshop organized by the Research Group for Biological Arms Control, University of Hamburg, Geneva Switzerland, August 3, 2014.

"What is the role of tacit knowledge in what malevolent actors could achieve?" Presentation to National Ground Intelligence Center, Charlottesville, VA, July 23, 2014.

"S&TS Translations into Intelligence: Some Early Observations," Translations of Security Conference, Centre for Advanced Security Theory (CAST), Department of Political Science, University of Copenhagen, Copenhagen, Denmark, May 20-22, 2014.

"What is the Role of Tacit Knowledge in What Malevolent Actors Could Achieve?" Flowers Consortium Workshop on 'Synthetic Biology and Biosecurity,' King's College, London, UK, February 28, 2014.

"Revolution versus Evolution?: Understanding Scientific and Technological Diffusion in Synthetic Biology," Q Symposium: Security in the Quantum Age, the first annual conference of the University of Sydney's Centre for International Security Studies, Sydney, Australia, February 20-22, 2014.

"Intelligence Forecasting: The Jefferson Experiment," for Issues and Non-issues in Science and Medicine, University of Exeter, Exeter, UK, September 27-28, 2013.

"Synthetic Biology: A Case Study in Complexity for Bioterrorists," DARPA/DSO Speaker Series, Arlington, VA, July 22, 2013.

"Threat Assessment and Mitigation Strategies: A Dialogue about Biological Weapons," Center for Science Technology and Security Policy, American Association for the Advancement of Science, Washington, DC, June 20, 2013.

"Synthetic Biology: A Case Study in Complexity for Bioterrorists," DARPA/DSO Speaker Series, Arlington, VA, July 22, 2013.

"Phantom Menace or Looming Danger?: A New Framework for Assessing Bioweapons Threats," International Security Studies Program and Los Alamos National Laboratory Seminar Series, Woodrow Wilson International Center for Scholars, Washington, DC, March 22, 2013.

"The Duality of Technology," Centre for Advanced Security Theory (CAST), University of Copenhagen, Copenhagen, Denmark, October 22, 2012.

"Bird Flu and Bioterrorism: Re-thinking the Use of Expert Knowledge in Intelligence Assessments," Workshop on Understanding and Improving Intelligence Analysis: Learning from other Disciplines, Brunel University's Centre for Intelligence and Security Studies in collaboration with University of Mississippi's Center for Intelligence and Security Studies, London, UK, July 13-14, 2012.

"The Role of Tacit Knowledge in WMD Proliferation: Past and Present," Seminar Series, International Security Studies Program, Woodrow Wilson International Center for Scholars and Los Alamos National Laboratory, Washington, DC, April 20, 2012.

"Intelligence Collection and Analysis on WMD Threats," and "How Credible is the Threat of Attacks with Chemical-Biological Agents," Workshop on Weapons of Mass Destruction Terrorism, NATO Centre of Excellence -Defence Against Terrorism, Ankara, Turkey, January 31-February 1, 2012.

CONFERENCE PRESENTATIONS

"Understanding the Socio-Technical Impacts of AI on Intelligence Analysis," Kathleen Vogel, Katina Michael and Hussein Abbass, UKAIS2025, Newcastle, UK, April 2025.

"Biosecurity Education: Building the Next Generation, Biosecurity, Biosafety, and Bioethics Conference, AlChE (American Institute of Chemical Engineers) 2020 Biosecurity, Biosafety, Bioethics Conference, Arizona State University, December 4, 2020 (Zoom presentation).

"Algorithms that Empower? Platformization in U.S. Intelligence Analysis," ISTAS 20: International Symposium on Technology and Society, November 15, 2020 (Zoom presentation).

"Examples of Tradecraft Development and Project Successes," 2019 Symposium on Cryptologic History: From Discovery to Discourse, Center for Cryptologic History, National Security Agency, Kossiakoff Center, Laurel, MD, October 12, 2019.

"Algorithms that Empower? ACS and the Future of Intelligence Analysis," 2019 Society for the Social Studies of Science, New Orleans, LA, September 2019.

"Bringing the National Security Agency into the Classroom: Ethical Reflections on Academia-Intelligence Agency Partnerships," 2018 Forum on Philosophy, Engineering and Technology, College Park, MD, May 31, 2018.

"Co-constructing Anticipatory Intelligence," 2017 International Studies Association, Baltimore, MD, February 25, 2017.

"Bringing NSA into the Classroom: Lessons Learned from Studying Student Workflows," 2016 International Studies Association, Atlanta, GA, March 17, 2016.

"Interdisciplinary Teams for Intelligence Analysis: An Experiment at NC State," 2015 Society for Social Studies of Science, Denver, CO, November 14, 2015.

"Creation of Multidisciplinary Teams for Improving Intelligence Analysis: A Natural Experiment at NC State," 2015 American Political Science Association, San Francisco, CA, September 4, 2015.

"Interventions into Intelligence: Some Reflections by a Participant Observer," 2015 International Studies Association Annual Meeting, New Orleans, LA, February 21, 2015.

"Ethnography of Engagement Between S&TS and U.S. Intelligence: Lessons-to-Date," 2013 Society for

the Social Studies of Science Annual Meeting, San Diego, CA, October 12, 2013.

"New Perspectives on Assessing Proliferation Risks," ISA ISSS-ISAC Joint Annual Conference, Bridging the Academic/Policy Divide, George Washington University, Washington, DC, October 4-6, 2013.
"Understanding Scientific and Technological Diffusion in Synthetic Biology," SB 6.0, London, UK, July 11, 2013.

"Assessing Deterrence," 2013 International Studies Association Annual Meeting, San Francisco, CA, April 4, 2013.

"Project BACHUS: Forecasting Bioweapons Threats with Experiment and Demonstration," 2013 International Studies Association Annual Meeting, San Francisco, CA, April 5, 2013.

"The H5N1 Controversy: Where Science Studies Meets Intelligence Practitioners," 2012 Society for the Social Studies of Science Annual Meeting, Copenhagen, Denmark, October 20, 2012.

"Sociotechnical Factors in U.S. Bioweapons Intelligence Assessments," 2012 International Studies Association Annual Meeting, San Diego, CA, April 3, 2012.

"Biosecurity Threats: Expertise and Intelligence Assessments," 2010 American Political Science Association Annual Meeting, Washington, DC, September 3, 2010.

"Biosecurity Threats: Expertise and Intelligence Assessments," 2009 Society for the Social Studies of Science Annual Meeting, Washington, DC, October 29, 2009.

"Living Legacy: An Oral History of U.S. & Soviet Bioweaponeers and Its Implications for Understanding Past, Present, and Future Biosecurity Threats," 2009 International Studies Association Annual Meeting, New York, NY, February 17, 2009.

"Imagined and Realized Futures of U.S. Bioweapons Threat Assessments," 2007 Society for the Social Studies of Science Annual Meeting, Montreal, Canada, October 12, 2007.

"Synthetic Biology: Reframers, Rewriters, and Bioterrorism Policy," 2006 Society for the Social Studies of Science Annual Meeting, Vancouver, Canada, November 3, 2006.

"Deconstructing the Bioterrorism Threat: New Insights from the Field of Science and Technology Studies," 2005 National Meeting of the Association for Politics and Life Sciences, Washington, DC, September 2, 2005.

INVITED WORKSHOPS AND OTHER PROFESSIONAL INVITATIONS

Moderator for panel "DURC, P3CO, and You," Yale-Harvard Biosafety Symposium, April 4, 2023, Boston, MA.

"Big Data, AI, and the Future of the U.S. Intelligence Workforce," Public Interest Technology Colloquium, Arizona State University, Zoom presentation, October 25, 2022.

Mirabella Lifelong Learning Lecture with Dr. Kathleen Vogel and Dr. Gary Grossman, September 1, 2022, Mirabella/Arizona State University, Tempe, AZ.

Computing Community Consortium (CCC) / Code 8.7 Workshop on Applying AI in the Fight Against

Modern Slavery, Washington, DC, March 3-4, 2020.

Code 8.7: Using Computational Research and Artificial Intelligence to End Modern Slavery, United Nations University, New York, NY, February 19-20, 2019.

"Workshop on Research Agendas in the Society Aspects of Synthetic Biology," Arizona State University, Tempe, AZ, November 4-6, 2014.

"Delphi Study Workshop: Looking Forward to Synthetic Biology Governance," North Carolina State University, Raleigh, NC, June 3-4, 2014.

Invited discussant, "Chemical and Biological Weapons Utility in the 21st Century Workshop," U.S. National Intelligence Council, Arlington, VA, October 14, 2010.

Invited participant, "Transparency, Compliance, and Building Confidence in the Biological Weapons Convention," American Association for the Advancement of Science, Washington, DC, August 13, 2010.

Invited participant, "Building Biosecurity Capacity," University of California, San Diego, and Carnegie Corporation of New York, Washington, DC, May 29-30, 2008.

Invited workshop participant and paper discussant, "The Problem of Biosecurity: Approaches from the Critical Social Sciences," Social Science Research Council, New York, NY, April 6-7, 2007.

Invited workshop participant, ISN/CTR Biosecurity Experts Group, American Association for the Advancement of Science, Washington, DC, June 2, 2006.

Invited workshop participant, Summer Workshop on Analysis of Military Operations and Strategy (SWAMOS) sponsored by Columbia University's Arnold Saltzman Institute of War and Peace Studies, Cornell University, Ithaca, NY, July 11-30, 2004.

GRADUATE STUDENT ADVISING

Ph.D. Students

Chair/Co-Chair

- Aurel Liddell, Ph.D. candidate-Innovations in Global Development, Chair of Ph.D. Committee, Dissertation: Strengthening Digital Competencies in Guyana: A Pathway for Mitigating Digital Divides and Promoting Digital Inclusion, School for the Future of Innovation in Society, Arizona State University, September 2021 to present.
- David Gillum, Ph.D. Candidate-Human and Social Dimensions of Science and Technology, Chair of Ph.D. Committee, Dissertation: Can the Subaltern Speak: The Case for Biosafety and Biosecurity Practitioners," School for the Future of Innovation in Society, Arizona State University, August 2022 to May 2025; graduated May 2025.
- Chantal Sathi, Ph.D. candidate-Innovations in Global Development/Human and Social Dimensions of Science and Technology, Interim faculty advisor, Dissertation: Discovering the Role of Public-Private Partnerships in Enabling Societally Beneficial Space-based Technology Transitions, School for the Future of Innovation in Society, Arizona State University, January 2022 to December 2024 (student chose to leave ASU).
- Dwayne Renville, Ph.D. candidate-Innovations in Global Development, Co-Chair of Ph.D. Committee, Dissertation: Inclusive Urban Flood Resilience: A Case Study of Georgetown, Guyana, School for the Future of Innovation in Society, Arizona State University, graduated May 2024.

- Gabrielle Lout, Chair of Ph.D. Committee-Human and Social Dimensions of Science and Technology, Dissertation: "Improving Human Rights in Global Fisheries," School for the Future of Innovation in Society, Arizona State University, graduated May 2022.
- Rebecca Earnhardt, Ph.D. candidate, Chair of Ph.D. Committee, UMD School of Public Policy, August 2019 to June 2020 (student left UMD to attend George Mason University).

Ph.D. Committee Member

- Carrie Sikorski, Ph.D. candidate- Innovations in Global Development, Committee Member, School for the Future of Innovation in Society, Arizona State University.
- Paul Ehmann, Ph.D. candidate-Biology and Society, Dissertation: The Biological and Toxin Weapons Convention: From bioterrorism to biosecurity: understanding the role of the convention, School of Life Sciences, Arizona State University, January 2023 to present.
- Nicholas Shadid, PhD. candidate-Biology and Society, Prospectus Committee Member, Dissertation: Imaginations of Suzhi in PRC Reproductive Policy and Technoscience, School of Life Sciences, Arizona State University, August 2022 to present.
- Yagana Hafed, Ph.D. candidate-Innovations in Global Development, Committee Member, Dissertation: Civil Society in Uncivil Places: Afghan Diaspora Perspectives on Development and Resistance, School for the Future of Innovation in Society, Arizona State University, graduated December 2025.
- Denise Simmons, Ph.D. candidate-Innovations in Global Development, Committee Member, Dissertation: Science-based and institution-led innovation for climate adaptation: Case of rice-developing institutions in Guyana, School for the Future of Innovation in Society, Arizona State University, graduated December 2025.
- Alires Almon, Ph.D. candidate-Human and Social Dimensions of Science and Technology, Reader, May 2025 to July 2025.
- Shelby Hickman, Ph.D. Committee Member, Dissertation: Typologies of Forced Labor in Brazil, Department of Criminology and Criminal Justice, August 2019 to August 2020.
- Kristine Rodgers, Ph.D. candidate, Committee Member, Dissertation: Change Detection: Theoretical and Applied Approaches for Providing Updates Related to a Topic of Interest, University of Maryland-College Park College of Information Studies, August 2017-August 2020.
- Paul Jones, Ph.D. candidate, Committee Member, Dissertation: Self-Tracking Instrumentation Agents and Analytics to Enable Knowledge Creation and Collaborative Intelligence from Analytical Workflows, Department of Computer Science, North Carolina State University, 2015-2017; graduated 2017.
- Benjamin Wang, Ph.D. candidate, Committee Member, Dissertation: Contaminated Landscapes: Explosive Remnants of War in Sudan, Department of Science and Technology Studies, Cornell University, 2009-2013; graduated 2013.
- Dong Hao, Ph.D. candidate, Committee Member, Department of Materials Science and Engineering, College of Engineering, Concentration: Social Studies of Science and Technology, Cornell University, Fall 2009-2012; student passed away in 2012.
- Daniel Plafcan, Jr., Ph.D. candidate, Field Appointed Reader, Dissertation: Between State and Transnational Community: U.S.-Japan Technoscientific Diplomacy in Earth Observation, Department of Science and Technology Studies, Cornell University, 2006; graduated 2007.

Ph.D. Interim Advisor

- Neha Chhetri, Ph.D.-Candidate, Innovations in Global Development, School for the Future of Innovation in Society, Arizona State University, August 2025 to present.

Ph.D. External Member

- Naomi Rio, Ph.D.-Candidate, Dissertation: Project Coast: South Africa's Chem-Bio Weapons Program, University of Hamburg, Germany, Co-Chair, September 2025-present.

- Damon Dade, Ph.D.-Candidate-Public Policy, George Mason University, External Reader, March 2023 to April 2026; graduated 2026.
- Shannon Fye-Marnien, Ph.D. candidate, Committee Member, Dissertation: An Examination of Contingency in Synthetic Genomics Research and Implications for National Security, Biodefense Program, George Mason University, 2010-2015; graduated 2015.

Master's Students
- Tony Genco, "Responsible Frontierism: A Policy Review of Experimental Land Use in the History of the American West," Applied Project, Master of Science and Technology Policy, ASU, 2024.
- Mitsushi Suzano, "Case Study of Interdisciplinary Research Organizations to Create Social Value at Arizona State University," Applied Project, Master of Science and Technology Policy, ASU, 2022.
- Phil Kane, "Emerging Threats in Low Earth Orbit: A Threatcasting Analysis on the Increasing Use of Near-Earth Satellites and its Future Risks," Applied Project, Master of Science and Technology Policy, ASU, 2021.
- Jacob Robertson, Applied Project, Master of Science and Technology Policy, ASU, 2021.
- Jenna Robinson, "Beyond the Horizon: A Policy Analysis of Methods for Creating a Space Resources Institute," Applied Project, Master of Science and Technology Policy, ASU, 2021.
- Francesca Lascala, "PROTECT's Human Trafficking Prevention and Education Implementation and Success Using the ThriveCast Platform" Applied Project, Master of Science and Technology Policy, ASU, 2021.
- Fritz Smith, "Where the Rubber Meets Cyberspace: The Symbiotic Relationship Between Smart Cities and Bicycles" Applied Project, Master of Science and Technology Policy, ASU, 2020.
- Blaine Rivas, "Forging An Unlikely Partnership: Opportunities for Sino-American Cooperation in Outer Space," Applied Project, Master of Science and Technology Policy, ASU, 2020.
- Heather Allen, Cornell Institute for Public Affairs, Supervised MPA thesis, Fall 2006-Spring 2007, Thesis: "What Drives South Africa's Military Policy? A Case Study of Air-Lift Technology," MPA degree, May 2007.

Undergraduate Students
- Elisabeth Baer, "French Use of Chemical and Biological Agents in Assassinations," SFIS Undergraduate Research Program, Spring 2023 to Spring 2025, Arizona State University.
- Diana RoDee, "Immunity of International Organizations and Access to Justice: An International Comparative Analysis," Barrett College Undergraduate Honors Thesis, Advisor, August 2023 to May 2024, Arizona State University.
- Hannah Smith, "Human Trafficking & Sexual Exploitation: The Negative Effects of UN Peacekeeping Missions & What Needs to Change," Barrett College Undergraduate Honors Thesis, Advisor, August 2022 to May 2023, Arizona State University.
- Jordan Harb, "Chemical Assassinations since the CWC," SFIS Undergraduate Research Program, Spring 2023, Arizona State University.
- Rachel Hess, "Human Trafficking in Cuba's Foreign Medical Missions Program," SFIS Undergraduate Research Program, Spring 2023, Arizona State University.
- Diana RoDee, "Human Trafficking in Cuba's Foreign Medical Missions Program," SFIS Undergraduate Research Program, Spring 2023, Arizona State University.
- Mark Danciu, "Biocontainment for Synthetic Biology," Barrett College Undergraduate Honors Thesis, Second Reader, Arizona State University, March 2023.
- Jordan Harb, "Labor Trafficking in the Middle East: Stolen Passports and the Kafala System," SFIS Undergraduate Research Program, Fall 2022, Arizona State University.
- Hannah Smith, "The Role of UN Peacekeepers and Human Trafficking in Haiti," SFIS Undergraduate Research Program, Fall 2022, Arizona State University.
- Audrey Safman, "Women in Trafficking: An Inside Look at Human Trafficking in Guyana," SFIS Undergraduate Research Program, Fall 2022, Arizona State University.

- Rishab Chatty, "Targeted Assassinations by Drones in the Global War on Terrorism," SFIS Undergraduate Research Program, Fall 2022, Arizona State University.
- Anthony McElroy, "Chemical & Biological Assassinations In Former Yugoslavia," SFIS Undergraduate Research Program, Fall 2022, Arizona State University.
- Leon Dilly, Undergraduate Honors Thesis, Second Reader, SFIS, Arizona State University, 2022.
- Jacklyn Ho, "Human Trafficking in Cuba's Foreign Medical Missions Program," SFIS Undergraduate Research Program, Fall 2020, Arizona State University.
- David Liendo Uriona, Biology and Society undergraduate thesis, 2014, Cornell University.

COURSES

Arizona State University

- FIS 201, Innovation in Society, Spring 2026 (core class for the undergraduate major-Innovation in Society).
- HSD 602, Science, Power, & Politics, Spring 2024 and Spring 2025 (core course for Ph.D. program- Human and Social Dimensions of Science and Technology).
- FIS 494/HSD 598, Antarctica: The Frozen Continent (study abroad course), December 2023-January 2024.
- FIS 494/HSD 598, Antarctica: Humans and the Environment, Fall 2023.
- HSD 598, Independent Study (David Gillum), Summer 2023.
- HSD 598, Independent Study (Aurel Liddell), Fall 2022.
- HSD 502, Advanced Science and Technology Policy, Spring 2022 (core class for Master of Science and Technology Policy).
- FIS 111, Welcome to the Future, Spring 2021 (core class for undergraduate major-Innovation in Society).

University of Maryland

Note: At UMD, I have developed all courses, with the exception of PLCY 699W.

- PLCY 306 Public Policy Analysis in Action, Spring 2018, 2019, and 2020, (core class for undergraduate public policy major).
- PLCY 388V Special Topics in Public Policy; From Artificial Intelligence to Genetic Engineering: The Policy Implications of Emerging Technologies, Spring 2018.
- PLCY 388Y/698Y Summer Study Abroad: Bombs, Bugs, and Poisons: Critical Policy Issues in Weapons of Mass Destruction: England and Austria, May-June 2019 [new course].
- PLCY 400 Senior Capstone; this is the undergraduate senior public policy capstone course, Spring 2020.
- PLCY 798C Science, Technology, and International Security (including an Executive Education course on the same topic at the U.S. National Reconnaissance Office, Chantilly, VA), Fall 2018; Spring 2019 [new course].
- PLCY 688E Social, Ethical, and Policy Implications of Big Data/AI Systems, Executive Education course at the U.S. National Reconnaissance Office, Chantilly, VA, Summer 2019 [new course].
- PLCY 699W and 790 Selected Topics Public Policy; Policy Engagement Project A, Fall 2019 and Spring 2020; this is the core master's in public policy capstone course (with Jonas Siegel)
- Graduate Workshop on Fundamentals of Scholarly Communication and Engagement: 6-week science policy/science communication workshop for UMD graduate students in science, engineering, and policy, Spring 2019 [with Rosina Bierbaum (School of Public Policy), Karen Lips (Biology), and Melissa Kenney (Earth System Science Interdisciplinary Center) [new workshop].

North Carolina State University

Note: At NC State, I developed both of the following courses

- IPGK 295 Current Controversies in Health and the Life Sciences: Ebola

- PS 498/598 Science, Technology, and National Security

Cornell University
Note: At Cornell, I developed STS 1112, STS 4391, STS 4711, and STS 6241; the other courses I inherited from other faculty but made modifications each year that I taught the courses.

- STS 1112 Bugs and Bombs: Thinking about Bioterrorism Threats in a Post 9-11 World [new course]
- STS 2011 What is Science? An Introduction to the Social Studies of Science and Technology (core class for undergraduate science and technology studies major)
- STS/BSOC 2051 Ethical Issues in Health and Medicine (core class for undergraduate biology and society major)
- STS/BSOC 3011 Life Sciences and Society (core class for undergraduate biology and society major)
- STS 4391 The Science of Spying: S&T in U.S. Intelligence
- STS 4711 The Dark Side of Biology
- STS 4831 The Military and New Technology
- STS 6241 Science, Technology, and International Security
- STS 7111 Introductory Seminar in Science and Technology Studies (co-taught with Michael Lynch) (core class for Ph.D. in Science and Technology Studies).

NATIONAL ACADEMIES SERVICE

- U.S. National Academies of Science, Engineering, and Medicine, Workshop Planning Committee, Strengthening Southeast Asian Academia and Industry Biotechnology and Biomanufacturing Safety and Security Workshop, February 2026 to present.
- Reviewer for, *Assessing and Improving Strategies for Preventing, Countering, and Responding to Weapons of Mass Destruction Terrorism: Chemical Threats*, Board on Chemical Sciences and Technology of the National Academies of Sciences, Engineering and Medicine, September-October 2023.
- U.S. National Academies of Science, Engineering, and Medicine, Engaging Scientists to Prevent Harmful Exploitation of Advanced Data Analytics and Biological Data -- A Workshop Series Planning Committee, August 2022 to August 2023.
- Reviewer, Board on Life Sciences, U.S. National Academies of Science, Engineering, and Medicine proceedings of a workshop Assessing and Improving Strategies for Preventing, Countering, and Responding to Weapons of Mass Destruction Terrorism: Biological Threats, November 2022.
- Member, Committee on Assessing Fundamental Attitudes of Life Scientists as a Basis for Biosecurity Education, Policy and Global Affairs Division, U.S. National Research Council, 2007-2009.

OTHER PROFESSIONAL SERVICE AND AFFILIATIONS

- Reviewer, "Identification of adults with lived experiences of modern slavery in the UK," a project of the British Institute of International and Comparative Law and the Human Trafficking Foundation, November 2022.
- Reviewer, National Institutes of Health, 2021.
- Reviewer, National Science Foundation, 2020, 2021.
- Co-organizer of panel, Science, Technology, and International Security, Society for the Social Studies of Science Annual Meeting, New Orleans, LA, 2019-2020.
- Affiliated faculty, Communication Rhetoric and Digital Media Program, North Carolina State University, February 2017 to the present.
- Mentor, 2015 Society for the Social Studies of Science, Denver, CO, September 2015.
- Member of the Advisory Board of the Global Health Section of the International Studies Association (GHS), 2014.
- Book Manuscript Reviewer, Stanford University Press, 2024, 2025.

- Book Manuscript Reviewer, Routledge, Intelligence Studies Series, 2022, 2025.
- Book Manuscript Reviewer, University College London Press, 2025
- Book Manuscript Reviewer, Rowman and Littlefield Press, 2024.
- Reviewer, National Science Foundation, 2012, 2015, 2016, 2020.
- Reviewer, *Journal of Responsible Innovation*, 2026.
- Reviewer, *American Journal of Qualitative Research*, 2024
- Reviewer, *Applied Biosafety*, 2024
- Reviewer*, Intelligence and National Security*, 2021.
- Reviewer, *Politics and the Life Sciences*, 2021, 2024, 2025, 2026
- Reviewer, *Survival,* 2020.
- Reviewer, *The International Journal of Intelligence, Security, and Public Affairs*, 2020.
- Reviewer, *Agriculture and Human Values*, 2018, 2019.
- Reviewer, *Journal of Human Trafficking*, 2019.
- Reviewer, *The Nonproliferation Review*, 2012, 2015, 2019.
- Reviewer, *BioSocieties*, 2014, 2026.
- Reviewer, *Science and Public Policy*, 2013.
- Reviewer, *Contemporary Security Policy,* 2013.
- Reviewer, *Science, Technology, & Human Values*, 2012.
- Reviewer, *Social Studies of Science*, 2007, 2010, 2011, 2024.
- Reviewer, *Biosecurity and Bioterrorism: Biodefense Strategy, Practice, and Science*, 2007, 2010, 2011, 2014
- September 2011-May 2012, Senior Fellow, Woodrow Wilson Center International Center for Scholars, Washington, DC.
- May-August 2010, Visiting Scholar, Center for Science, Technology, and Security Policy, American Association for the Advancement of Science, Washington, DC.
- Reviewer, *PLoS Pathogens*, 2010.
- Organizer of panel, "Re-thinking Expertise in Defense and Intelligence," 2009 Annual Meeting of the Society for the Social Studies of Science, Washington, DC, October 29, 2009.
- Co-organizer (with Gerald Epstein) for panel, "S&T Advice for Congress: The Campaign to Restore the Office of Technology Assessment," 2009 Annual Meeting of the Society for the Social Studies of Science, Washington, DC, October 29, 2009.
- Co-organizer of panel (with Judith Reppy), "Technoscience in the Production of Contemporary Security Dilemmas," 2007 Annual Meeting of the Society for the Social Studies of Science, Montreal, Canada, October 11-13, 2007.
- June-August 2007, Visiting Scholar, Center for Science, Technology, and Security Policy, American Association for the Advancement of Science, Washington, DC.
- Workshop facilitator, "Science, Technology and US National Security: Engaging the Next Generation," Women in International Security, Washington, DC, March 26, 2007.
- Reviewer, Cornell University Press, 2008.
- Reviewer, AAAS/U.S. National Academies Survey, "Security Risks in Life Science Research," 2007.
- Co-organizer for panel (with Rebecca Slayton and Sonja Schmidt), "Black-Boxed Security" 2006 Annual Meeting of the Society for the Social Studies of Science, Vancouver, Canada, November 1-5, 2006.
- May-August 2006, Visiting Scholar, Center for Science, Technology, and Security Policy, American Association for the Advancement of Science, Washington, DC.
- Member, Scientist Working Group on Biological and Chemical Security, Center for Arms Control and Nonproliferation, 2004 to the present.
- Reviewer, Grant Program, U.S. Institute of Peace, Washington, DC, 2004.
- Member, Society for the Social Studies of Science (4S).
- Member, Society for the History of Technology (SHOT).
- Member, International Studies Association (ISA).

- Member, Women in International Security (WIIS).

ARIZONA STATE UNIVERSITY SERVICE

- SFIS Online BA/BS and MS in Innovation degree development, Spring 2025 to present.
- ASU ADVANCE, Promotion and Tenure Program Cohort, Spring 2025
- SFIS 2.0 Co-Design Council Member, University Design Institute, Fall 2023-Spring 2024.
- Chair, SFIS Promotion and Tenure Committee, Fall 2023 to Summer 2025.
- Chair, SFIS Search Committee for Director of SFIS, Fall 2023.
- College of Global Futures By Laws Task Force, Spring 2023 to present.
- University Promotion and Tenure Committee, August 2022-December 2023.
- University Graduate Council, August 2022-May 2023.
- Search Committee Chair, Justice, Equity, Diversity, and Inclusion (JEDI) Faculty Search, successful cluster hire of 4 faculty candidates in Science, Technology, Innovation and Racial Justice (assistant and full professor), Public Engagement with Science, Technology, and Innovation (associate professor), Just and Sustainable Energy Transitions (assistant professor), January 2021-July 2021, School for the Future of Innovation in Society.
- Chair, Master of Science and Technology Policy degree, School for the Future of Innovation in Society, August 2020-present.
- Associate Director for Faculty, School for the Future of Innovation in Society, August 2020-August 2021.
- Ombudsperson, School for the Future of Innovation in Society, August 2020-August 2021.

UNIVERSITY OF MARYLAND SERVICE

- Chair, Faculty Diversity Committee, School of Public Policy, January 2020 to June 2020.
- Diversity, Inclusion, and Belonging Task Force, School of Public Policy, Fall 2019 to June 2020.
- S&T Policy Pillar head, School of Public Policy, Fall 2019 to June 2020.
- University Research Council, Fall 2019 to June 2020.
- Director of Strategic Research Initiatives, Fall 2019 to June 2020.
- Chair, Mentoring Committee for Assistant Professor Catherine Worsnop, School of Public Policy, Fall 2019-Spring 2020.
- APT Committee Chair for Assistant Professor Lucy Qiu, School of Public Policy, Spring 2019-June 2020.
- Robertson Foundation Fellowship Selection Committee, School of Public Policy, Spring 2019.
- Science, Technology, and Society Minor Committee, Cross-college Committee, Spring 2019-June 2020.
- Recruitment, Innovation, and Branding Committee, School of Public Policy, Spring 2019-June 2020.
- Undergraduate Learning Assessment Committee, School of Public Policy, Spring 2019-present.
- Faculty Workload and Rewards Project, School of Public Policy, Fall 2018-June 2020.
- Mentoring Committee for Assistant Professor Joannie Tremblay-Boire, School of Public Policy, Fall 2018-June 2020.
- Mentoring Committee for Assistant Professor Alec Worsnop, School of Public Policy, Fall 2017-June 2020.
- Faculty Search Committee, Nonprofit Search, School of Public Policy, 2017-2018.
- Executive Education Committee, School of Public Policy, 2017-2018.
- Science & Technology Policy Initiative, School of Public Policy, Fall 2017-June 2020.

NORTH CAROLINA STATE UNIVERSITY SERVICE

- Data Science Advisory Council, December 2015 to February 2017.
- Executive Advisory Board for Emerging Plant Disease and Food Security Faculty Cluster, Chancellor's Faculty Excellence Program, June 2015 to February 2017.
- Graduate Faculty member, Communication, Rhetoric, and Digital Media Ph.D. Program, April 2015

to February 2017.
- Faculty Advisor, Science, Technology, and Society club, January 2015 to September 2016.
- College of Humanities and Social Sciences Undergraduate Curriculum Committee, January 2015 to May 2016.
- Chancellor's Faculty Excellence Program Selection Committee, January 2015 to June 2015.
- Data-Driven Science Faculty Search Committee, January 2015-June 2015.
- Associate Membership Graduate Faculty, North Carolina State University, October 2014 to February 2017.
- College of Humanities and Social Sciences Research Committee, September 2014 to February 2017.
- Director, Science, Technology, and Society Program, August 2014 to June 2016.
- Interdisciplinary Studies Council, August 2014 to February 2017.
- Sustainability Committee, August 2014 to July 2015.

CORNELL UNIVERSITY SERVICE
- Faculty Advisor, Dial of Ahaz Pre-Health Society, August 2012 to June 2014.
- Faculty Advisor, Bioethics Society, 2007-2011; August 2012 to June 2014.
- Nominating Committee, College of Arts and Sciences, July 2012 to June 2014.
- Graduate Minor Field Faculty Member, Peace Studies and Peace Science, Summer 2010-June 2014.
- Faculty-in-Residence, Cornell-in-Washington Program, Washington, DC, Spring 2011.
- Department of Science and Technology Studies faculty search committee, 2012-2013; 2010-2011; 2006-2007.
- Graduate Field Faculty Member, Cornell Institute for Public Affairs, Fall 2006-June 2014.
- Member of Einaudi Center Foreign Policy Network, Fall 2005-June 2014.
- Member, Institute for Peace and Conflict Studies Executive Steering Committee, 2004-June 2014.
- Graduate Field Faculty Member, Department of Science and Technology Studies, Spring 2004-June 2014.
- Director of the Biology and Society and STS Undergraduate majors in the STS Department, 2007-2011.

CONFERENCE, WORKSHOP, AND MEETING ORGANIZATION
- October 3, 2025, "Biosafety and Biosecurity Considerations for Mirror Life," workshop, Washington, DC, co-organized with David Gillum (University of Nevada, Reno) and Arthur Daemmrich, Consortium for Science Policy & Outcomes (CSPO)).
- October 2, 2025 "Biosafety & Biosecurity for DURC and PEPP: Retrospective and Prospective Considerations for Policy," Closed door workshop with regulators, Washington, DC, co-organized with Tony Mills and Anemone Franz, American Enterprise Institute (AEI) and David Gillum (University of Nevada, Reno).
- September 20, 2024, "Fundamental Understanding of the Disruptive Dynamics Caused by Artificial Intelligence and Swarm Systems on the Intelligence Community and Global Security," PLuS Alliance Workshop, Canberra, Australia, Co-Organized with Katina Michael (Arizona State University) and Hussein Abbass (University of New South Wales, Australia).
- September 19, 2024, "The impact of AI on intelligence analysis," Australian Defence Science, Technology and Research Summit (ADSTAR), Canberra, Australia, Co-organized with Katina Michael (Arizona State University) and Hussein Abbass (University of New South Wales, Australia), https://a.storyblok.com/f/234418/x/92bb84eddd/adstar_program_2024_09_05.pdf.
- June 27-28, 2024, "Opportunities and challenges of cooperation with China on human germline genome editing research and governance," Arlington, VA, Co-organized with Sonia Ben Ouagrham-Gormley (George Mason University) and Joy Zhang (University of Kent, UK).
- Spring 2023, "Global Engagement on Human Germline Genome Editing: Opportunities and Challenges," Senate House, London, UK, March 9-10, 2023, Co-organized with: Joy Zhang (University of Kent, UK) and Sonia Ben Ouagrham-Gormley (George Mason University.

- Fall 2022, "Securitization for Sustainability of People and Place: A Call to Transdisciplinarity," The Fifteenth Workshop on the Social Implications of National Security (SINS22), Human Factors Series, An initiative of the IEEE SSIT Technical Committee on Emerging Technology in cooperation with the Society Policy Engineering Collective (SPEC) at Arizona State University, Venue: Hong Kong (virtual), November 10-11, 2022, Co-organizers: Mariana Zafeirakopoulos, University of Technology, Sydney, Roba Abbas, University of Wollongong, Jeremy Pitt, Imperial College London, Katina Michael, Arizona State University.
- Spring-Summer 2021, "Workshop on cybersecurity, artificial intelligence and society," January-June 2021 (co-organized with Katina Michael, Arizona State University, George Balston, The Alan Turing Institute, London, UK; Paul Jones, UK National Cyber Security Centre).
- Spring 2016, "Secrecy and Intelligence: Opening the Black Box," Raleigh, NC, April 18-19, 2016 (co-organized with Brian Balmer, University College London).
- Spring 2015: Buchdahl Symposium on Science, Technology, and Human Values, Raleigh, NC, April 10, 2015 (part of the symposium co-organized with Jeremy Packer, Communications, Rhetoric, and Digital Media Program).
- Fall 2012: Co-organized (with the UK Economic and Social Research Council's Genomics Policy and Research Forum), "US-UK Joint Workshop on Improving Intelligence Analysis for Emerging Biotechnology Threats," London, England, September 12-14, 2012.
- Spring 2012: Co-organized (with Einaudi Center for International Studies, Cornell-in-Washington, Cornell Club of Washington, DC, and Cornell-on-the Road), "Bugs & Bombs: Preparing Intelligently for Bioterrorism," Woodrow Wilson International Center for Scholars, Washington, DC, March 22, 2012.
- Spring 2010: Co-organized (with Matthew Evangelista), "Peace Studies Program 40th Anniversary Conference," Cornell University, April 9-10, 2010.
- Spring 2010: Co- organized (with Sonia Ben Ouagrham-Gormley), "Panel Discussion with Former Soviet Bioweapons Scientists," Biodefense Program, Department of Public and International Affairs, George Mason University, Arlington, VA, March 29, 2010.
- Spring 2009: Co-organized (with Sonia Ben Ouagrham-Gormley), "Panel Discussion with Former U.S. Bioweapons Scientists," Biodefense Program, Department of Public and International Affairs, George Mason University, Arlington, VA, March 17, 2009.