
Eric W. Welch

Education

- Ph.D. Public Administration (1997), The Maxwell School of Citizenship and Public Affairs, Syracuse University, Concentration in Science and Technology Policy and Administration
- M.A. International Studies (1991) University of Oregon
- M.A. Asian Studies (1991) University of Oregon
- B.A. History (1985) University of Washington

EmploymentCurrent

Professor, School of Public Affairs, Arizona State University (ASU), 2014-
Director, Center for Science, Technology and Environmental Policy Studies (C-STEPS), 2014-
Visiting Professor, Graduate School of Economics and Management, Tohoku University,
Japan, 2021-2025
Senior Global Futures Scientist, Julie Ann Wrigley Global Futures Laboratory, ASU
Affiliated Faculty Positions at ASU
Institute for Social Science Research
Sustainable Transportation and Urban Futures Initiative
School for the Future of Innovation Studies
Center for Organizational Research and Design
Center for Technology, Data and Society
Swette Center for Sustainable Food Systems

Prior

Senior Fellow, Montpellier Advanced Knowledge Institute on Transitions, University of Montpellier,
2023
Associate Professor, Department of Public Administration, University of Illinois at Chicago, 2005-2014
Graduate College Faculty Member, University of Illinois at Chicago, 2001-2014
Director, Science, Technology and Environment Policy Lab, University of Illinois Chicago, 2005-2014
Assistant Professor, Department of Public Administration, UIC, 1998-2005
Postdoctoral Fellow, Center for Technology & Information Policy, Syracuse University, 1997-1998
External Researcher, Center for Economic Studies, US Bureau of the Census, 1996-1997
International Technology Management Consultant, Rubicon International, Portland Oregon, 1990-1993

Active research areas

- Adaptation to climate change, organizational and institutional responses to weather extremes and disasters; adaptation and resilience related to agriculture, health, and infrastructure;
- Science-policy-interface, governance and regulation of data and material inputs to science, global governance of research and development;
- Science policy, team science, science collaboration, disparities in access to academic science careers;
- University invention, patenting, innovation and commercialization of discoveries;
- Academic science competitiveness, science project and program evaluation;
- Management of public technology systems, use of technology in government, digital / electronic government.

Funded Research (*indicates current)

- *NSF Open Knowledge Network Proto-OKN Theme 1: The Water-Energy Nexus Open Knowledge Network (WEN-OKN, Multi-agency, #2333726, CoPI, 2023-2026)
- *Bill and Melinda Gates Foundation, Agriculture Strategy and Investment for Climate Adaptation. Accelerating Climate Adaptation via Meso-level Integration (PI, 2022-2025)
- *NSF EPSCoR RII Track I. ARISE: Adaptive and Resilient Infrastructures driven by social equity (ICER #2148878, 2022-2027)
- *NSF Coastlines and Peoples. Large-Scale CoPe: Rising Voices, Changing Coasts: The National Indigenous and Earth Sciences Convergence Hub, (ICER, 2022-2027)
- *NSF Future of Work at the Human Technology Frontier: Envisioning Public Procurement for a Sustainable Future (IIS and CISE #2222498, Co-PI, 2022-2024)
- *NSF Coastlines and Peoples. Large-Scale CoPe: The Cascadia Coastlines and People Hazards Research Hub (ICER #2103713, Co-PI, 2021-2026)
- *USGS Science Communication Theory, Design, Production and Engagement, Cooperative Agreement, US Geological Survey (PI, 2021-2024)
- *NSF EAGER: International Type II: Assessing the Role of Social Innovation for Resilience in Global Collaborative Research (OISE #2124687, PI 2021-2024)
- *NSF EPSCoR Program, Kansas Track II Aquatic Intermittency Effects on Microbiomes in Streams (AIMS) (2021-2025)
- *Science and Engineering Workforce Panel Opinion Survey (SciOPS), ASU and CSTEPS sponsored (PI, 2016-ongoing)
- *NSF EPSCoR Program, Kansas Track I Microbiomes of Aquatic habitats, Plants, and Soils (MAPS) (2017-2023)
- NSF RAPID: Linking institutional logics and data sharing to research outputs before and after SARS-CoV-2 peak infection, NSF SMA #2029936 (Supplement awarded 2021), PI, 2020-2023
- NSF Connecting Nuances of Foreign Status, Professional Networks, and Higher Education, National Science Foundation (DGE #1661206, PI 2017-2023)
- E-COFFEE Initiative to Reduce Pesticide Use in Coffee, Environmental Scanning to Assess Global Governance Structures and Opportunities for Collaboration, CIRAD, Co-PI, 2021-2023
- NSF ERC: Planning Grant: Engineering Research Center for Innovative Built and Regenerative Environments for Advancing Timeless Habitability and Equity (I-BREATHE), (EEC #2124284, Co-PI, 2021-2022)
- Global governance of genetic-based research and development in coffee: BREEDing Coffee for AgroForestry Systems (BREEDcafs), European Union, Horizon 2020, Sustainable Food Security – Resilient and resource-efficient value chains, Collaborator, 2017-2022
- Allen Coral Reef Atlas, Use Cases Leveraging Coral Reef Big Data and Visualization to Inform Global and National Policy, PI, 2021-2022
- Post COVID-19 Implications for Collaborative Governance of Genetic diversity and genomics research, International Treaty on Plant Genetic Resources for Food and Agriculture, Partnership with Keystone Policy Center and CIRAD, FAO of the UN - Climate, Biodiversity, Land and Water Department, 2020-2021
- National NSF EPSCoR Study on Academic Excellence and Research Competitiveness, National Science Foundation, Collaboration with M2, Abt Associates, American Association for the Advancement of Science and Georgia Institute of Technology, 2017-2020
- Center Alignment and Expansion Grant, College of Public Service and Community Solutions, ASU, An Integrative Approach to Adaptive Management and Collaborative Governance: Linking Extreme Weather and Transportation Vulnerability Using a Geodesign Platform to Visualize and Facilitate Decision Making, 2018-2019
- Implications of Advanced Sequencing and Synthetic Biology for the International Treaty on Plant Genetic Resources (ITPGRFA). United Nations Food and Agriculture Organization, PI, 2017
- Global Status of GRFA ABS Policies, Commission on Genetic Resources for Food and Agriculture, UN FAO, 2017

NSF Contested Resource Inputs to Science: How Institutional Provisions on the Access and Use of Materials and Data Affect Research Collaboration Structures and Outcomes. National Science Foundation, SciSIP #1360166, PI, 2014-2018

Potential and emerging impacts of the changing institutional landscape on the global exchange of genetic resources for food and agriculture (GRFA), International Food Policy Research Institute (IFPRI) and Bureau for Food Security, United States Agency for International Development (USAID) September, PI, 2015-2017

Institutional and Organizational Factors for Enabling Data Access, Exchange and Use Aims for DivSeek, PI, International Treaty for Plant Genetic Resources for Food and Agriculture (ITPGRFA) and Global Crop Diversity Trust (GCDT), UN Food and Agriculture Organization (FAO), PI, 2015-2016

Networks for Climate Smart Technologies in Uganda and Tanzania, Flagship Four, Climate Change for Agriculture and Food Security (CCAFS), Bioversity International, 2014-2016, Co-PI

Climate Change effects on Transit Emergency Management and Planning, Federal Transportation Administration, 2012-2016, Co-PI

Genetic Resources Policy Initiative (GRPI-2) to strengthen national capacities to implement the International Treaty on Plant Genetic Resources for Food and Agriculture, Bioversity International, 2012-2016, Co-PI

Climate Change Assessment of Facilitators and Barriers Germplasm Flows (CCAFS) between the GGIAR (Consultative Group on International Agricultural Research) Centres, CGIAR partners and other end users, Bioversity International, 2012-2016, Co-PI

Development of Evaluation Plan for Chicago Public Schools Travel Training Program, Federal Transportation Administration, 2014-2016, Co-PI

NSF Assessing the Kansas NSF EPSCoR Program Phase VI: Climate Change and Energy: Basic Science, Impacts, and Mitigation, 2009-2015, PI

NSF Breaking through the Reputational Ceiling: Professional Networks as a Determinant of Advancement, Mobility, and Career Outcomes for Women and Minorities in STEM, Grant # REESE-0910191. National Science Foundation, 2009-2014, Co-PI

Establishment of the CCIT Lab: Tracking Creative and Collaborative Information Technology, UIC College of Business, 2011-2014, Co-PI

NIH Evaluating the Center for Clinical and Translational Science (2009-2014) National Institutes of Health, 2010-2014, Senior Researcher, Co-Director

Research Collaboration on the Exchange and Use of Genetic Resources for Food and Agriculture, Agropolis Foundation, France, 2012-2014, PI

Knowledge for Policy: Critical Research for Understanding Potential Impacts of Access and Benefit Sharing on Eight Sectors of Genetic Resources for Food and Agriculture, National Institute for Food and Agriculture, US Department of Agriculture, Foreign Agricultural Service Grant # 2009-65213-06026, 2009-2013, PI

Synthesizing and Disseminating Local Government Approaches to Technology and Civic Engagement, Institute for Policy and Civic Engagement, 2012-2013, PI

Building Urban Resilience and Sustainability (BURST): Integrating Adaptive Infrastructure Systems with Institutional and Ecological Functions, Areas of Excellence Award, Office of the Vice Chancellor for Research, UIC, 2012-2013, Co-PI

Broadband Evaluation Workshop and Book, MacArthur Foundation, 2012-2013, Co-PI, with Karen Mossberger and Yonghong Wu

Science in Action: The Negotiation of a Multilateral Access and Benefit Sharing Agreement for Genetic Resources for Food and Agriculture, US Department of Agriculture, Foreign Agricultural Service, 2008-2012, PI

Exchange and Use of Genetic Resources Used in French Agricultural Research, CIRAD, 2010-2011, PI

Collaboration among the Chicago Transit Authority and the Urban Transportation Center at UIC, Chicago Transportation Authority and Illinois Department of Transportation, 2011-2012, Co-PI

Continuation of the National Study on City Government Technology and Civic Engagement Institute for Policy and Civic Engagement, 2011, PI

Continued Collaboration among the CTA, UIC, and MIT, Chicago Transit Authority, 2005-2010, Co-PI.

National Study on State Government Technology and Civic Engagement. Institute for Policy and Civic Engagement, 2010-2011, PI

Evaluation of the Landscape, Ecological and Anthropogenic Processes, National Science Foundation Integrative Graduate Education and Research Traineeship (NSF-IGERT) 2008-2011, PI.

National Study on City and Town Government Technology and Civic Engagement. Institute for Policy and Civic Engagement, 2010, PI

NSF Patenting Behavior of Academic Scientists and Engineers: A Micro-level Analysis of the Factors that Determine the Production of University Patents. National Science Foundation, Grant # SES-0750613, 2008-2011, PI. Supplement awarded August 2010, PI

Positioning the Institute for Policy and Civic Engagement as a Leader for Using Technology to Enhance Collaborative Governance in the Greater Chicago Region. Institute for Policy and Civic Engagement, 2009, PI

NSF Women in Science and Engineering: Network Access, Participation, and Career Outcomes (2005-2010). Grant # REC-052964. National Science Foundation, Co-PI; supplement awarded, 2008, Co-PI

Evaluation of the Mid-America Earthquake (MAE) NSF Engineering Research Center, 2005-2008, Co-PI

From E-government to E-governance: A Study of the Impact of E-government in Hong Kong, Hong Kong Research Grants Council, 2006-2008, Co-PI

Institute for Environmental Science and Policy, Modeling and Assessing the Effectiveness of Alternative Fuel Vehicle Fleet Replacement in Local Government: A Multidisciplinary Analysis of DuPage County Forest Preserve's Mandate, 2004-2005, Co-PI

Effect of Ozone Warning Days on Public Transportation Ridership. Chicago Transit Authority, 2003-2005, PI

Linking Technology and Democracy: A Study of Government Use of the Internet to Facilitate Public Discourse, 2003-2004, Great Cities Institute

Public Administration in the Age of Globalization: Studying the Effect of Interaction between Global Pressures and Domestic Contexts on Public Bureaucracy, Hong Kong Research Grants Council, 2002-2004, Co-PI

Global Environmental Research Fund. Comparative analysis of Japanese and US Voluntary Environmental Policies, Ministry of the Environment, Japan, 2002-2005, Co-PI

Global Environmental Research Fund. Feasibility Study for Comparative Environmental Policy Analysis. Japan Environment Agency, 2001-2002, Co-PI

A Study of the Process of Transformation toward an Industrial Society with Minimum Environmental Burden. Japan Environment Agency, Global Environmental Research Fund, 2000-2003, Co-PI

External Science Policy Consultancies, Science Project and Program Evaluations

National Science Foundation (NSF) Funded R&D Project and Program Evaluations

NSF EPSCoR Program, Iowa Track I Chemurgy 2: Meeting human needs from things that grow (2023-2028)

NSF EPSCoR Program, Montana Track I Smart Fires (2023-2028)

NSF EPSCoR Program, Arkansas Track II Membrane Viral Particle Separation (2022-2026)

NSF EPSCoR Program, Montana Track II Natural Resource Supply Chain Optimization using Aerial Imagery Interpreted with Machine Learning Methods (2022-2026)

NSF EPSCoR Program, Louisiana Track II Facilitating Ubiquitous Technology Utilizing Resilient Eco-friendly Sensors FUTURES (2022-2026)

NSF EPSCoR Program, Kansas RII BEC, Mitigating COVID-19 Career Challenges with Research and Professional Development Training for Undergraduate Students and Mentors in Field-based Environmental Sciences (2022-2027)

NSF EPSCoR Program, Kentucky Track I Advancing Kentucky's Manufacturing Partnerships in Enhanced Robotics and Structures (2019-2024)

NSF EPSCoR Program, Montana Track I Consortium for Research on Environmental Water Systems (CREWS) (2018-2023)

NSF EPSCoR Program, New Hampshire Track I BioMade project: New Hampshire Center for Multiscale Modeling and Manufacturing of Biomaterials (2018-2024)

NSF EPSCoR Program, Alaska Track I Fire and Ice: Navigating Variability in Boreal Wildfire Regimes and Subarctic Coastal Ecosystems (Fire & Ice) (2018-2024)

NSF EPSCoR Program, Rhode Island Track I Enhancing Rhode Island's Coastal Environment to Enable Growth in a Blue Economy (2017-2022)

NSF EPSCoR Program, Louisiana Track II FEC: Probing and Understanding the Brain: Micro and Macro Dynamics of Seizure and Memory Networks (2016-2020)

NSF EPSCoR Program, Maine Track I The Nexus of Coastal Social-Environmental Systems and Sustainable Ecological Aquaculture (2015-2020)

NSF EPSCoR Program, Alaska Track I Adapting to Changing Environments (2013-2018)

NSF EPSCoR Program, Kansas Track I Climate Change and Energy: Basic Science, Impacts, and Mitigation (2009-2014)

Research Competitiveness Program, NSF EPSCoR Assessment Initiative, American Association for the Advancement of Science (AAAS), 2017-2018.

NSF EPSCoR Program, New Hampshire Track I Interactions among Climate, Land Use, Ecosystem Services and Society (2011-2016)

NSF EPSCoR Program, Maine Track I Sustainability Solutions Initiative (2009-2014)

NSF EPSCoR program, Alaska Track I Resilience and Vulnerability in a Rapidly Changing North: The Integration of Physical, Biological & Social Processes (2007-2012)

NSF EPSCoR Program, Alaska Cyberinfrastructure Award (2012-2014)

NSF Integrative Graduate Education and Research Traineeship (NSF-IGERT) Program: Landscape, Ecological and Anthropogenic Processes (2008-2011)

National Research Council, National Academy of Sciences Panel, Board of Mathematical Sciences Review, Evaluation of the NSF VIGRE program (2007-2008)

American Association for the Advancement of Science (AAAS), NSF funded Maine EPSCoR Forest Bioproducts Research Program, Evaluation Expert on Science Evaluation Team (2007-2009)

American Association for the Advancement of Science, NSF funded Kansas EPSCoR Forecasting Ecological Change in the Central Plains Program, Evaluation Expert on Science Evaluation Team (2007-2009)

National Institutes of Health (NIH) R&D Project Evaluations

NIH Minority Access for Research Careers (MARC) program, US Virgin Islands, PI, (2011-2016).

NIH Center for Clinical and Translational Science, University of Illinois at Chicago (2009-2014), Evaluation Co-Director, NIH translational science research infrastructure program.

American Association for the Advancement of Science, NIH funded Maine IDeA Network of Biomedical Research Excellence (INBRE), Evaluation Expert on Science Evaluation Team (2009-2014).

Global Agriculture and Genetic Resources Project Evaluations

USAID, Sorghum and Millet Innovation Lab Evaluation, 2014-2018, Evaluation Technical Expert, 2017.

USAID, Peanut and Mycotoxin Innovation Lab Evaluation, 2012-2016, Evaluation Technical Expert, 2016.

USAID, Legume Innovation Lab Evaluation, 2012-2016, Evaluation Technical Expert, 2016.

UN FAO, Genetic Resources Programs since 2007 (2014-2015), Lead Evaluator

Other External Evaluation and Review Activity

Assessment of Global R&D Evaluation Methodologies, CONACYT (Consejo Nacional de Ciencia y Tecnología – National Council on Science and Technology of Mexico), Funded by the Mexican National Science Foundation (CONACYT) (with Julia Melkers) 2003-2004

Federal Agency Evaluation for the Government Performance Project. (1998) Project funded through a Pew Grant. Evaluated financial, capital, human, information and results management for three federal agencies: U.S. Patent and Trademark Office, U.S. Internal Revenue Service, & U.S. Customs Service. The Campbell Institute, Syracuse University

Evaluation to inform public decision-making forum (Charrette) for the formation of a water district for the Hamlet of Long Eddy, New York. (1998) Environmental Protection Agency, Environmental Finance Center, Syracuse University

Advisory Committees, Government Delegations & Global Consultancies

United Nations Food and Agriculture Organization (UN FAO), Consultation on Draft Guidance on Strengthening National Science-Policy Interfaces for Agrifood Systems, September 2023.

United Nations Food and Agriculture Organization (UN FAO), Consultation on Science Policy Interface: Understanding the Science and Evidence Based Decision Making in International Organizations, 2022-2023.

United Nations Food and Agriculture Organization (UN FAO), Consultation on Post COVID-19 Implications for Collaborative Governance of Genetic diversity and genomics research, International Treaty on Plant Genetic Resources for Food and Agriculture, Project Lead, 2021

International Treaty for Plant Genetic Resources for Food and Agriculture (ITPGRFA) and Global Crop Diversity Trust (GCDDT), UN Food & Agriculture Organization (FAO), Institutional and Organizational Factors for Enabling Data Access, Exchange and Use Aims for DivSeek, March 2016.

US Government Delegate, United Nations Food and Agriculture Organization (FAO), Commission on Genetic Resources for Food and Agriculture (CGRFA), 14th Regular Session, April 15-19, Rome, Italy, 2013

US Government Invited Observer, United Nations Food and Agriculture Organization (FAO), Commission on Genetic Resources for Food and Agriculture (CGRFA), Ad Hoc Technical Working Group on Access and Benefit-Sharing for Genetic Resources for Food and Agriculture (WG-ABS-1), Longyearbyen (Svalbard), Norway, September 11-13, 2012

US Government Invited Observer, United Nations Food and Agriculture Organization (FAO), Commission on Genetic Resources for Food and Agriculture (CGRFA), 13th Regular Session, Rome, Italy, July 2011

US Government Invited Observer, Expert on Access and Benefit sharing for Food and Agriculture, Nagoya, Japan, Conference of the Parties 10, Convention on Biodiversity, October 2010

US Government Delegation, Invited Expert on Access and Benefit Sharing for Food and Agriculture, Ninth Meeting of the Ad Hoc Open-ended Working Group on Access and Benefit-sharing (WG ABS 9), Convention on Biodiversity, Montreal, Canada, July 2010

US Government Delegation, Invited Expert Access and Benefit Sharing for Food and Agriculture, Ninth meeting of the Ad Hoc Open-ended Working Group on Access and Benefit-sharing (WG ABS 9), Convention on Biodiversity, Cali, Colombia, March 2010

US Government Delegation, US State Department, United Nations Commission on Genetic Resources for Food and Agriculture, Invited Academic Expert on Access and Benefit Sharing for Food and Agriculture, Rome, Italy 2009

Awards & Honors

Fellowship Award, Montpellier Advanced Knowledge Institute on Transitions, COHORT Programme, January 2023-July 2023.
Leadership Award, ASU Knowledge Enterprise Grants Program, Washington DC, ASU, 2021
Distinguished Service Award, School of Public Affairs, ASU 2022
Full Member by Nominated, Sigma Xi, 2021 –
Distinguished Scholar Award, College of Public Service & Community Solutions, ASU, 2018
Faculty Distinguished Research Award, School of Public Affairs, ASU, 2017
Agropolis Foundation Research Fellow, CIRAD, Montpellier, France 2012-2013
OECD Fellowship Award, Co-operative Research Programme: Biological Resource Management for Sustainable Agriculture, 2012-2013
Jefferson Science Fellowship, Finalist, 2012
JSPS Fellowship Award, Japan Society for the Promotion of Science, National Institute for Environmental Studies, 2009
Best Paper, Electronic Government, HICSS Conference, 2007
Faculty Scholar Award, Great Cities Institute, UIC, 2003-2004
Pi Alpha Alpha, Honor Society in Public Administration, 2000
STA Short-term Research Fellowship Award, Science & Technology Agency of Japan, National Institute for Environmental Studies, 2000
STA Long-term Research Fellowship Award, Science & Technology Agency of Japan, National Institute of Environmental Studies, Ministry of the Environment, Japan, 1998-1999
Roscoe Martin Award, Syracuse University, 1997
Young Scientists Summer Program (YSSP), International Institute for Applied Systems Analysis (IIASA), Industrial Metabolism & Long-Term Environmental Policy Project (funded through National Science Foundation Grant # INT-9302944), Vienna, Austria, 1996
Pi Gamma Mu, International Honor Society in Social Science, 1989

Publications

Refereed Journal Articles

1. Jung, H. Chen, Y., Frandell, A., Welch, E.W. (2024) Ties with Benefits: Relationship between Relational Multiplexity, *Gender and Work-Life Balance*, *ROPPA*.
2. Yu, S. and Welch, E.W. (2024) Responding Strategically to Natural Hazards: The Role of Hazard Experience, Infrastructure Vulnerability, and Public Managers' Risk Perception in Agency Coordination with Stakeholders, *Journal of Environmental Planning and Management*, 67(1), 108-130
3. Fusi, F., Jung, H., Welch, E.W. (2023) Technological Vulnerability and Knowledge about Cybersecurity: Threats to Innovativeness in Local Governments? *Public Management Review*.
4. Caldarulo, M. and Welch, E. (2023) Organizational Risk Perception in Public Agencies: The Role of Contracting and Scientific and Professional information, *Public Management Review*.
5. Feeney, M., Jung, H. Johnson, T. and Welch, E. W. (2023) US Visa and Immigration policy Challenges: Explanations for Faculty Perceptions and Intent to Leave, *Research in Higher Education*, 64, 1031-1057.

6. Fusi, F, Zhang, F; Welch E. W. (2023) Intra-organizational Communication in Public Agencies: The Effect of Contracting Out Core Services, *American Review of Public Administration*, with F. Fusi and F. Zhang, 53(5-6), 224-242.
7. Welch, E. W., Johnson, T. P., Chen, T., Ma, J., Islam, S., Michalegko, L., Caldarulo, M., Frandell, A. (2023) How Scientists View Vaccine Hesitancy. *Vaccines*, 11(7), 1208.
8. Zhang, F. & Welch, E. W. (2023) Explaining Public Organization Adaptation to Climate Change: Configurations of Macro- and Meso-Level Institutional Logics. *Journal of Public Administration Research and Theory*, 33(2), 357-374.
9. M. Caldarulo, J. Olsen, A. Frandell, S. Islam, T. Johnson, M. Feeney, L. Michalegko and E.W. Welch (2022) COVID-19 and Gender inequity in science: Consistent harm over time, *PLOS One*, 17(7), e0271089.
10. Caldarulo, M., Welch, E. W. & Feeney, M. K. (2022) Determinants of Cyberincidents among Small and Medium US Cities. *Government Information Quarterly*, 39(3) 101707.
11. Jung, H., & Welch, E. (2022) The Impact of Demographic Composition of Social Networks on Perceived Inclusion in the Workplace. *Public Administration Review*, 82(3), 522-536.
12. Aydemir, N. Y., Huang, W. L., & Welch, E. W. (2022). Late-stage academic entrepreneurship: Explaining why academic scientists collaborate with industry to commercialize their patents. *Technological Forecasting and Social Change*, 176, 121436.
13. Zhang, F., & Welch, E. W. (2021). More than just managerial self-efficacy: conceptualizing and predicting top managers' means efficacy about the organization under extreme events. *Journal of Managerial Psychology*, 37(1):29-46.
14. Xiang, T., Welch, E. W., & Liu, B. (2021). Power of social relations: The dynamics of social capital and household economic recovery post Wenchuan earthquake. *International Journal of Disaster Risk Reduction*, 66, 102607.
15. Johnson, T. P., Feeney, M. K., Jung, H., Frandell, A., Caldarulo, M., Michalegko, L., ... & Welch, E. W. (2021). COVID-19 and the academy: opinions and experiences of university-based scientists in the US. *Humanities and Social Sciences Communications*, 8(1), 1-7.
16. Frandell, A., Feeney, M. K., Johnson, T. P., Welch, E. W., Michalegko, L., & Jung, H. (2021). The effects of electronic alert letters for internet surveys of academic scientists. *Scientometrics*, 126(8), 7167-7181.
17. van Holm, E. J., Jung, H., & Welch, E. W. (2021). The impacts of foreignness and cultural distance on commercialization of patents. *The Journal of Technology Transfer*, 46(1), 29-61.
18. The Role of Genetic Resources in Breeding for Climate Change: The Case of Public Breeding Programmes in Eighteen Developing Countries (2020) *Plants*, 9(9): 1129 (with G Galluzzi, A Seyoum, M Halewood, I López Noriega)
19. Zhang, F., Stritch, J. M., & Welch, E. W. (2020). Tension in democratic administration: Does managerial confidence in administrative capacity reduce citizen participation in organizational decision-making? *Public Administration*, 98(3), 675-695.
20. Welch, E. W., Taggart, G., Feeney, M. K., & Siciliano, M. (2019). Navigating the labyrinth: Academic scientists' responses to new regulatory controls on biological material inputs to research. *Environmental Science & Policy*, 101, 136-146.
21. Van Holm, E. J., Wu, Y., & Welch, E. W. (2019). Comparing the collaboration networks and productivity of China-born and US-born academic scientists. *Science and Public Policy*, 46(2), 310-320.
22. Fusi, F., Welch, E. W., & Siciliano, M. (2019). Barriers and facilitators of access to biological material for international research: The role of institutions and networks. *Science and Public Policy*, 46(2), 275-289.
23. Miao, Q., Welch, E. W., & Sriraj, P. S. (2019). Extreme weather, public transport ridership and moderating effect of bus stop shelters. *Journal of Transport Geography*, 74, 125-133.
24. Fusi, F., Manzella, D., Louafi, S., & Welch, E. (2018). Building global genomics initiatives and enabling data sharing: Insights from multiple case studies. *Omics: A Journal of integrative biology*, 22(4), 237-247.

25. Gaughan, M., Melkers, J., & Welch, E. (2018). Differential social network effects on scholarly productivity: An intersectional analysis. *Science, Technology, & Human Values*, 43(3), 570-599.
26. Halewood, M., Chiurugwi, T., Sackville Hamilton, R., Kurtz, B., Marden, E., Welch, E., ... & Powell, W. (2018). Plant genetic resources for food and agriculture: opportunities and challenges emerging from the science and information technology revolution. *New Phytologist*, 217(4), 1407-1419.
27. Miao, Q., Welch, E. W., Zhang, F., & Sriraj, P. S. (2018). What drives public transit organizations in the United States to adapt to extreme weather events?. *Journal of environmental management*, 225, 252-260.
28. Miao, Q., Feeney, M. K., Zhang, F., Welch, E. W., & Sriraj, P. S. (2018). Through the storm: Transit agency management in response to climate change. *Transportation Research Part D: Transport and Environment*, 63, 421-432.
29. Zhang, F., Welch, E. W., & Miao, Q. (2018). Public organization adaptation to extreme events: Mediating role of risk perception. *Journal of Public Administration Research and Theory*, 28(3), 371-387.
30. Siciliano, M. D., Welch, E. W., & Feeney, M. K. (2018). Network exploration and exploitation: Professional network churn and scientific production. *Social Networks*, 52, 167-179.
31. Welch, E. W., Fusi, F., Louafi, S., & Siciliano, M. (2017). Genetic resource policies in international collaborative research for food and agriculture: A study of USAID-funded innovation labs. *Global food security*, 15, 33-42.
32. Kim, K., Welch, E. W., & Johnson, T. (2017). Human and social capital determinants of translational activity in medical sciences. *Science and Public Policy*, 44(5), 609-619.
33. Nijar, G. S., Louafi, S., & Welch, E. W. (2017). The implementation of the Nagoya ABS Protocol for the research sector: Experience and challenges. *International Environmental Agreements: Politics, Law and Economics*, 17(5), 607-621.
34. Yuille, M. M., Feller, P. I., Georghiou, L., Laredo, P., & Welch, E. W. (2017). Financial sustainability of biobanks: From theory to practice. *Biopreservation and Biobanking*, 15(2), 85-92.
35. McWilliams, A., Parhankangas, A., Coupet, J., Welch, E., & Barnum, D. T. (2016). Strategic decision making for the triple bottom line. *Business Strategy and the Environment*, 25(3), 193-204.
36. Shin, E., & Welch, E. W. (2016). Socio-Technical Determinants of Information Security Perceptions in US Local Governments. *International Journal of Electronic Government Research (IJEGR)*, 12(3), 1-20.
37. Welch, E. W., Feeney, M. K., & Park, C. H. (2016). Determinants of data sharing in US city governments. *Government Information Quarterly*, 33(3), 393-403.
38. Park, C. H., Welch, E. W., & Sriraj, P. S. (2016). An integrative theory-driven framework for evaluating travel training programs. *Evaluation and program planning*, 59, 7-20.
39. Bernal, M., Welch, E. W., & Sriraj, P. S. (2016). The effect of slow zones on ridership: An analysis of the Chicago Transit Authority "El" Blue Line. *Transportation Research Part A: Policy and Practice*, 87, 11-21.
40. Feeney, M. K., & Welch, E. W. (2016). Technology–task coupling: Exploring social media use and managerial perceptions of e-government. *The American Review of Public Administration*, 46(2), 162-179.
41. Welch, E. W., & Jha, Y. (2016). Network and perceptual determinants of satisfaction among science and engineering faculty in US research universities. *The Journal of Technology Transfer*, 41(2), 290-328.
42. Seyoum, A., & Welch, E. W. (2015). Ex Post Use Restriction and Benefit-sharing Provisions for Access to Non-plant Genetic Materials for Public Research. *Applied Economic Perspectives and Policy*, 37(4), 667-691.
43. Wu, Y., Welch, E. W., & Huang, W. L. (2015). Commercialization of university inventions: Individual and institutional factors affecting licensing of university patents. *Technovation*, 36, 12-25.
44. Feeney, M. K., Johnson, T., & Welch, E. W. (2014). Methods for identifying translational researchers. *Evaluation & the health professions*, 37(1), 3-18.
45. Blackburn, H. D., Plante, Y. V. E. S., Rohrer, G., Welch, E. W., & Paiva, S. R. (2014). Impact of genetic drift on access and benefit sharing under the Nagoya Protocol: the case of the Meishan pig. *Journal of animal science*, 92(4), 1405-1411.

46. Haller, M. K., & Welch, E. W. (2014). Entrepreneurial behavior of academic scientists: Network and cognitive determinants of commitment to grant submissions and award outcomes. *Entrepreneurship Theory and Practice*, 38(4), 807-831.
47. Feeney, M. K., & Welch, E. W. (2014). Academic outcomes among principal investigators, co-principal investigators, and non-PI researchers. *The Journal of Technology Transfer*, 39(1), 111-133.
48. Huang, W. L., Welch, E. W., & Corley, E. A. (2014). Public sector voluntary initiatives: the adoption of the environmental management system by public waste water treatment facilities in the United States. *Journal of Environmental Planning and Management*, 57(10), 1531-1551.
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2. Mossberger, K., Welch, E.W, Wu, Y. (2021) Broadband as Experimentation and Policy Learning (2021) in *Transforming Everything? Evaluating Broadband's Impacts across Policy Areas*, K Mossberger, EW Welch, Y Wu, eds, Oxford University Press
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4. Jung, H., Fusi, F., Welch, E.W., Louafi, S. (2021) Apply with Caution! The Contingent Effect of Blockchain Enabled Governance on Trust, in *E-government Research Handbook*, Welch, E.W. ed. Edward Elgar
5. Crumbly, J. and Welch, E.W. (2021) The Role of New Technologies in the E-Governance of Global Supply Chains, in *E-government Research Handbook*, E.W. ed. Edward Elgar
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7. Darnal, N., Welch, E.W., Cho, S.K., Duscha, M. (2019) Sustainable Supply Chains and Regulatory Policy, in *Handbook on Sustainable Supply Chains*, J Sarkis, ed., 513-525, Edward Elgar Publishers.
8. Moon, M.J. and Welch, E.W. (2015) Managing E-government, in J Perry and RK Christensen, eds. *Handbook of Public Administration*, 3rd Edition, Jossey-Bass Publishers.

9. Louafi, S. and Welch, E.W. (2014) Open systems vs strong IPR. Disentangling the debate on open access for meeting global challenges in life-science, *A Planet for Life*, Agence Française de Développement (AFD) and Institut du Développement et des Relations Internationales (IDDRI).
10. Welch, E.W. (2012) Potential Implications of the Nagoya Protocol for the Livestock Sector, *Journal of Animal Breeding and Genetics*, 129 (6), 423-424.
11. Dedeurwaerdere, T. Louafi, S. Welch, E.W. and Batur, F. (2012) Global Scientific Research Commons for Biodiversity Based Innovation in Digitally Networked Environments: A Neglected Tool for Implementing the 2010 Nagoya Protocol on Access and Benefit Sharing, in E Morgera, M Buck and E Tsioumani (eds.), *The Nagoya Protocol in Perspective: Implications for International Law and Implementation Challenges*, Brill/Martinus Nijhoff.
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13. Shin, E.J. and Welch, E.W. (2012) Environmental Auditing and Compliance, *Handbook of Sustainable Management*, CN Madu and CH Kuei, Editors (2012), World Scientific Publishing (with EJ Shin).
14. Zellner, M. Welch, E.W. and Hoch, C. (2011) Leaping Forward: Building Resilience by Communicating Vulnerability, in *Planning for the Unthinkable: Building Resilience through Collaboration*, Bruce Goldstein, ed. MIT Press.
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21. Welch, E.W. and Bretschneider, S.I (1999) Contracting In: Can Government Be a Business? (1999) In Frederickson H.G. & Johnson, J. eds. *Public Management Reform & Innovation: Research, Theory and Application*. Tuscaloosa: University of Alabama Press, pp. 259-279

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<https://www.fao.org/documents/card/en/c/cd0054en>
- Allen Coral Reef Atlas: Use Cases Leveraging Coral Reef Big Data and Visualization to Inform Global and National Policy, CSTEPS Project Report, June 29, 2022.
- Post COVID-19 Implications on Genetic Diversity and Genomics Research & Innovation: A Call for Governance and Research Capacity (with Selim Louafi), Report from Expert Consultation on Post COVID-19 Implications for Collaborative Governance of Genetic diversity and genomics research, International Treaty on Plant Genetic Resources for Food and Agriculture, Partnership with Keystone Policy Center and CIRAD, FAO of the UN - Climate, Biodiversity, Land and Water Department, December 2021 (multiple authors). <http://www.fao.org/3/cb5573en/cb5573en.pdf>
- National Survey of US Public Transit Agency Experience with and Response to Extreme Weather Events, 2017; 2019
- Potential and emerging impacts of the changing institutional landscape on the global exchange of genetic resources for food and agriculture (GRFA), ASU and IFPRI project report to US, AID, June 2017 (with S Louafi, F Fusi, D Manzella, M Siciliano, D Spielman).
- Scoping study: potential implications of synthetic biology and genomic research trajectories for the International Treaty on Plant Genetic Resources for Food and Agriculture, October 2017 (with T Kuiken, M Bagley and S Louafi). http://www.fao.org/fileadmin/user_upload/faoweb/plant-treaty/GB7/qb7_90.pdf
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- How are the meso-level expert organizations connected to farmers and among themselves? Comparing Rakai (Uganda) and Lushoto (Tanzania) (November 2016) Y Jha, EW Welch, R Ogwal-Omara, M Halewood, November 2016 <https://ccafs.cgiar.org/publications/how-are-meso-level-expert-organizations-connected-farmers-and-among-themselves#.WK7dkm8rJEY>.
- Adoption of climate smart technologies in East Africa Findings from two surveys and participatory exercises with farmers and local experts, A Bedmar Villanueva, Y Jha, R Ogwal-Omara, EW Welch, A Seyoum Wedajoo, M Halewood, February 2016
<https://ccafs.cgiar.org/publications/influence-social-networks-adoption-climate-smart-technologies-east-africa-findings-two#.Vyih4QrJhE>.
- Influence of social networks on the adoption of climate smart technologies in East Africa Findings from two surveys and participatory exercises with farmers and local experts, A Bedmar Villanueva, Y Jha, R Ogwal-Omara, EW Welch, A Seyoum Wedajoo, M Halewood, February 2016
<https://ccafs.cgiar.org/publications/adoption-climate-smart-technologies-east-africa-findings-two-surveys-and-participatory#.VyiiqoQrJhE>.
- Network and Non-network Survey Results as Inputs for Effective Implementation of International Treaty on Plant Genetic Resources for Food and Agriculture (2015): The Case of Cote d'Ivoire, Guatemala, Costa Rica, Uganda, Rwanda, Nepal and Bhutan (7 separate country reports; with A Seyoum, M Halewood, R Vernooy).
- Flows under Stress: Availability of Plant Genetic Resources in Times of Climate and Policy Change. (July 2012) Working Paper No. 18, CGIAR Research Program on Climate Change, Agriculture and Food Security. Isabel Lopez-Noriega, Gea Galluzzi, Michael Halewood, Ronnie Vernooy, Enrico Bertacchini, Devendra Gauchan).
- Transparency, Civic Engagement, and Technology Use in Local Government Agencies: Findings from a National Survey (June 2012) (with MK Feeney and M Haller).

Transparency, Civic Engagement, and Technology Use in Local Government Agencies: Findings from a National Survey (April 2011) Final Report (with MK Feeney and M Haller).

Interim Report, Emerging Markets Program: Interim Performance Report, Access and Benefit Sharing for Genetic Resources Used in US Food and Agriculture Exports, Foreign Agricultural Service, 2010.

State Policy Effects on Firm-level Simultaneous Environmental-Economic Efficiency, Center for Technology & Information Policy Working Paper, No. 98-01. Syracuse University (with SI Bretschneider).

The Role of Companies in Industrial Transformation (1999) Contributor, In P Vellinga, ed., Research Approaches to Support the Industrial Transformation Science Plan. Free University, Netherlands: Institute for Environmental Studies.

Organizations, Management, and Networks (1997) In Industrial Transformation for Sustainable Practice: An Inventory of Research, S de Bruyn, P Vellinga, R Heintz, eds., IHDP-IT #8. Free University, Netherlands: Institute for Environmental Studies.

Organization Level of Analysis for Industrial Transformation. (February, 1997) Working Paper IHDP-IT #5. Free University, Netherlands: Institute for Environmental Studies.

Courses Taught

Organization Theory and Behavior Seminar (PhD Level); Advanced Public Policy Seminar (PhD Level); Research Methods (PhD Level); Seminar in Network Theory and Research (PhD Level); Environmental Policy and Management; Science and Technology Policy Seminar (PhD Level); Technology and Innovation Theory Seminar (PhD Level); Business, Government & the Environment; Science, Technology & Environment; Computer Applications in Public Administration; Electronic Government; Bureaucracy & the Policy Process Seminar (PhD Level); Electronic Government; Public Decision Making; Organization Theory & Public Management; Intergovernmental Management; Internship and Professional Development Course; Public Administration Capstone; MPA Statistics I

Postdoctoral Advisees

Wenceslao Arroyo Machado, 2024-2025, Department of Information and Communication, University of Granada, Spain

Eric Van Holm, 2017-2019, ASU, Assistant Professor, Department of Political Science, University of New Orleans

Qing Miao, 2015-2017, ASU, Assistant Professor, Department of Public Policy, Rochester Institute of Technology

Aseffa Seyoum Wedajoo, 2013-2015, ASU/UIC, Assistant Professor, Center for Environment and Development, Addis Ababa University, Ethiopia

Myung Jin Lee, 2012-2014, UIC, Senior Lecturer, Department of Administrative Studies and Politics, Malaya University, Malaysia

Bronco Ponomariov, 2006-2008, UIC, Associate Professor, College of Public Policy, University of Texas San Antonio

Theses & Dissertations

Shaika Islam, PhD, Chair, ASU School of Public Affairs, expected graduation 2024

Mattia Caldarulo, PhD, Chair, ASU School of Public Affairs, expected graduation 2023, NASPAA Staats Emerging Scholar Award, 2023.

Suyang Yu, PhD, Chair, ASU School of Public Affairs, expected graduation 2023, Assistant Professor, University of Illinois, Springfield

Ashlee Frandell, PhD, Chair, ASU School of Public Affairs, 2023, Assistant Professor, University of Nevada Las Vegas

Hubeidatu Nuhu, PhD Dissertation, External Member, University Cape Town, South Africa, 2023

Heyjie Jung, PhD, Chair, ASU School of Public Affairs, 2022, Assistant Professor, Department of Political Science, University of Oklahoma.

Fengxiu Zhang, PhD, Chair, ASU School of Public Affairs, 2020, Assistant Professor, Schar School of Policy and Government, George Mason University, NASPAA Staats Emerging Scholar Award, 2019.

Leonor Camerera, PhD, Committee Member, ASU School of Public Affairs, 2020, Assistant Professor, SPEA, Indiana University.

Gustavo d'Oliveira, PhD, Chair, UIC Department of Public Administration, 2019, Brazilian Department of State.

Federica Fusi, PhD, Committee member, ASU School of Public Affairs, 2018, Assistant Professor, Department of Public Administration, University of Illinois at Chicago, NASPAA Staats Emerging Scholar Award, 2017.

Sang Eun Lee, PhD, Chair, ASU School of Public Affairs, 2017, Lecturer, Arizona State University, Hainan China Campus.

Gabel Taggert, PhD, Chair, ASU, School of Public Affairs, 2017, Assistant Professor, School of Politics, Public Affairs and International Studies, University of Wyoming.

Rashmi Krishnamurthy, PhD, Chair, ASU School of Public Affairs, 2016; Postdoctoral Scholar, Smith School of Business, Queens University, Canada.

Marla Parker, PhD, Chair, UIC Public Administration, 2014; Assistant Professor, Department of Political Science, California State University Los Angeles.

Eunjung Shin, PhD, Chair, UIC Public Administration, 2013; Research Fellow, Science, Technology and Environment Policy Institute (STEPI), Korea.

Yamini Jha, PhD, Chair, UIC Public Administration, 2013, Lecturer, Information & Decision Sciences, Valparaiso University, Indiana.

Agrita Kiopa, PhD, Committee Member, Georgia Institute of Technology Public Policy, 2013; Director of the Higher Education, Science and Innovation Department at Ministry of Education and Science of Latvia.

Wan-Ling Huang, PhD, Chair, UIC Public Administration, 2011; Associate Professor, Department of Public Administration and Policy, National Taipei University, Taiwan

Nilay Yavuz, PhD, Chair, UIC Public Administration, 2010; Associate Professor, Department of Political Science and Public Administration, Middle East Technical University, Turkey.

Kimberly Johns, PhD, Committee Member, UIC Public Administration, 2009, World Bank, Senior Public Sector Specialist.

Megan Haller, PhD, Chair, UIC Public Administration, 2008

Joanne Howard, PhD, Committee Member, UIC Public Administration, 2006; Clinical Assistant Professor of Public Administration, Stuart School of Business, Illinois Institute of Technology

Chen Huei-Yuan, PhD, Committee Member, UIC Public Administration, 2004; Associate Professor, Department of Administrative Management, Chinese Culture University, Taiwan.

Debra Mir, PhD, External Committee Member, UIC Urban Policy and Planning, 2003

Megan Mattingly, Master Thesis, Committee Member, UIC Urban Policy and Planning, 2009

Tanushri Swarup, Master Thesis, Committee Member, UIC Urban Policy and Planning, 2008