Mattia Caldarulo

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Academic positions

Assistant professor, Rochester Institute of Technology, Department of Public Policy   Aug. 2024 – Present

Faculty Research Associate, Arizona State University,
Centre for Science, Technology, and Environmental Policy Studies   May 2024 – Aug. 2024

Education

Arizona State University, School of Public Affairs   **Phoenix, USA**
Ph.D. in Public Administration and Policy, GPA: 4.00   Aug. 2019 – May 2024

Dissertation: "*Opening the Black Box: Examining How Public Sector
Organizations Interpret and Respond to Extreme Events Risks*"

Committee: Eric W. Welch (Chair – ASU), Mary K. Feeney (ASU), Justin M.
Stritch (ASU), Gordon Kinglsey (Georgia Institute of Technology)

Bocconi University – Fudan School of Management (Double degree program)   **Shanghai, PRC – Milan, Italy**
MSc in International Management, Double Degree Program with Fudan School of   Sep. 2015 – Jul. 2017
Management

Bocconi University   **Milan, Italy**
Bachelor of Science in Business Administration and Management   Sep. 2012 – Jul. 2015

Other research & teaching training

Rutgers University – Newark   **Newark, USA**
School of Public Affairs and Administration   Mar. 2024
Visiting Scholar

University of Michigan   **Ann Arbor, USA**
International Consortium for Political Science Research (ICPSR).   Jul. 2022 – Aug. 2022
Categorical Data Analysis.

Rotterdam School of Management   **Rotterdam, The Netherlands**
University undergraduate exchange program, "Erasmus +"   Sep. 2014 – Dec. 2014

Research Interests

Technology in government, Cyber-security, Digital equity, Science and technology policy,
Public Management, Risk management, Extreme weather

Publications

<u>**Peer-Reviewed Articles**</u> (*) PhD student

1. **Caldarulo, M.**, Olsen, J., & Feeney, M. K. (2024). Oversharing: The downside of data sharing in local
   government. *Public Administration*. https://doi.org/10.1111/padm.12993

2. **Caldarulo, M.**, Mossberger, K., & Howell, A. (2023). Community-Wide Broadband Adoption and Student Academic Achievement. *Telecommunications Policy*. https://doi.org/10.1016/j.telpol.2022.102445

3. Frandell A., Islam S.*, Chen T.*, **Caldarulo M.**, Johnson T. P., Michalegko L., Zhang Y.*, Welch E. W. (2024). Abortion Rights: Perspectives of Academic Scientists in the United States. *Women Health's Report.* http://dx.doi.org/10.1089/whr.2024.0041

4. **Caldarulo, M.**, Welch, E. W. (2023). Public agencies' risk perception: The role of contracting and scientific and professional information. *Public Management Review.* https://doi.org/10.1080/14719037.2023.2191629

5. 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.* https://doi.org/10.3390/vaccines11071208

6. **Caldarulo, M.**, Welch, E. W., & Feeney, M. K. (2022). Determinants of cyber-incidents among small and medium US cities. *Government Information Quarterly*. https://doi.org/10.1016/j.giq.2022.101703

7. **Caldarulo, M.**, Olsen, J., Frandell, A., Islam, S., Johnson, T. P., Feeney, M. K., Michalegko, L., & Welch, E. W. (2022). COVID-19 and gender inequity in science: Consistent harm over time. *PLoS ONE*, 17(7). https://doi.org/10.1371/journal.pone.0271089

8. Johnson, T. P., Feeney, M. K., Jung, H., Frandell, A., **Caldarulo, M.**, Michalegko, L., Islam, S., & Welch, E. W. (2021). COVID-19 and The Academy: Opinions and Experiences of University-Based Scientists in the U.S. *Humanities & Social Sciences Communications*. https://doi.org/10.1057/s41599-021-00823-9

Book Chapters

1. Tolbert, C. J., Mossberger, K., Gaydos, N., & **Caldarulo, M.** (2022). Addressing Spatial Inequality in Broadband Use and Community-Level Outcomes. In K. Mossberger, E. W. Welch, & Y. Wu (Eds.), *Transforming Everything? Evaluating Broadband's Impacts Across Policy Areas* (1st ed., pp. 101–138). Oxford University Press. https://doi.org/10.1093/oso/9780190082871.003.0006

Under Review

1. **Caldarulo, M.,** Risk management in the public sector: A conceptual analysis

2. **Caldarulo, M.**, Corley, E., Pezo Salazar, I.*, Islam, S.*, Welch, E. W., Organizational Memories of Extreme Events: Evidence from US public agencies

3. Li, R. G.*, **Caldarulo M.,** Feeney, M. K., A tale of three worlds: Reconciling artificial intelligence research, practice, and policy

4. **Caldarulo, M.**, Porumbescu, G. A., Hetling, A., Time poverty, waiting, and broadband adoption: Evidence from the US

5. **Caldarulo, M.**, Rothenberg, S., Tang, Z., Beyond Shared Value: Uncovering Stakeholder Burden Through the Lens of Public Administration

6. Gao, C.*, **Caldarulo, M.**, Porumbescu, G., The Role of Education in Moderating Broadband Access and Perceived Digital Competency

Working Papers

1. **Caldarulo, M.**, Fusi, F., Mind the Gap: Developing Organizational Mindfulness for Cyber-Incident Management in U.S. Local Governments

2. **Caldarulo, M.** & Li, R. G.*, Relational and institutional elements shaping cyber-threats at the local level

3. Ma, J.*, **Caldarulo M.**, Chen T.*, Johnson, T., Islam, S.*, Welch, E.W., AI in the academy: Opinions and Experiences of University-Based Scientists

4. **Caldarulo, M.,** Developing an organizational shared risk perception: The role of IT, learning and conflict management

5. Welch, E. W., Fusi, F., **Caldarulo, M.**, Pham, T., The Role of Institutional Logics in Legitimizing Scientific Data Sharing: Assessing the Co-Evolution of Logics and Sharing over the Course of the COVID-19 Pandemic

Academic Reports and Policy Memos

1. Porumbescu, G. A., Gao, C., **Caldarulo, M.** (2024). Linking Broadband Availability and Education to Digital Skills. Available at New Jersey State Policy Lab. New Brunswick, NJ: Rutgers University.

2. Sibanda D., Semuah Odoom E., Kanyangi W., Abigail Apuryinga A., Methner N., Welch E. W., Eakin H., **Caldarulo M.**, Ma J., Yogya Y., Magreta R. (2024). ACAMI Project Report: Meso-level organizations as key actors in effective and equitable climate change adaptation interventions in Africa: A landscape analysis.

3. **Caldarulo, M.** (2020). Was the United States Prepared to Confront COVID-19? According to Scientists, It Depends. Available at SSRN

Media

1. **Caldarulo, M.**, Olsen J., Feeney M. K. (2024). To avoid cyber-incidents, cities should incorporate robust protections in their data sharing processes. Available at USAPP - American Politics and Policy at the London School of Economics

Funded Research Projects

1. 09/2024 – 07/2026
    Principal Investigator. ESL Global Cybersecurity Institute. *Assessing cyber-vulnerabilities in US local governments* **$12,500**

2. 09/2024 – 07/2026
    Principal Investigator (Co-PI Eric W. Welch, ASU). **French Agricultural Research Centre for International Development (CIRAD).** *E-COFFEE Initiative to Reduce Pesticide Use in Coffee, Development of Global the Data Sharing Governance Structures.* **$5,000/$15,000**

Submitted Research Grants

1. **Co-PI.** (PIs Welch, E. W., Johnson, T. P., Arroyo-Machado, W.) *Scientist Opinion Panel Survey (SciOPS) – NSF*

Conferences (*presenter)

1. **Caldarulo, M.***, Porumbescu, G. A., Hetling, A., Time poverty, waiting, and broadband adoption: Evidence from the US. Presented at *International Research Society for Public Management (IRSPM)*, April 2025.

2. **Caldarulo, M.***, Fusi, F., Mind the Gap: Developing Organizational Mindfulness for Cyber-Incident Management in U.S. Local Governments. Presented at *International Research Society for Public Management (IRSPM)*, April 2025.

3. **Caldarulo, M.***, Organizational adaptation to extreme events: The role of risk perception heterogeneity and integration. Presented at *Public Management Research Conference (PMRC)*, June 2024.

4. Welch, E. W., Fusi, F., **Caldarulo, M.***, Pham, T., The Role of Institutional Logics in Legitimizing Scientific Data Sharing: Assessing the Co-Evolution of Logics and Sharing over the Course of the COVID-19 Pandemic. Presented at *Association for Public Policy Analysis and Management (APPAM) Conference*, November 2023.

5. **Caldarulo, M.***, Olsen, J., Feeney M. K., Cybercrime vulnerabilities: The Downside of Data Sharing in Local Government. Presented at *Seoul National University GSPA – Bocconi International Conference*, July 2023.

6. **Caldarulo, M.***, Corley, E., Pezo Salazar, I., Islam, S., Welch, E. W., Organizational Memories of Extreme Events: Evidence from US public agencies. Presented at *Association for Public Policy Analysis and Management (APPAM) Conference*, November 2022.

7. **Caldarulo, M.***, Olsen, J., Feeney M. K., Cybercrime vulnerabilities: The Downside of Data Sharing in Local Government. Presented at *Public Management Research Conference (PMRC)*, May 2022.

8. **Caldarulo, M.***, Welch, E. W., The Role of Intra-Organizational Coordination in Reducing the Impact of Extreme Weather Events. Presented at *Midwest Political Science Association (MPSA) Conference*, April 2021.

9. **Caldarulo, M.***, Welch, E. W., Louafi, S., Camillo, S., How the global pandemic changes data governance systems: A competing logics approach. Presented at *Association for Public Policy Analysis and Management (APPAM) Conference*, November 2020.

10. **Caldarulo, M.***, Mossberger, K., Does broadband impact children's school achievements? Presented at *Association for Public Policy Analysis and Management (APPAM) Conference*, November 2020.

Invited Presentations/Conferences (*presenter)

Caldarulo, M.*, Building a Digital Italy: Challenges, Progress, and Opportunity – March, 19, 2025 – Viva l'Italia – RIT Celebrates Italy, Dr. Elisabetta Sanino D'Amanda, Rochester Institute of Technology

Caldarulo, M.*, Designing and operationalizing survey research: The SciOPS case – October 17, 2022 – Guest lecture, Course in Public Service Research Methods, Dr. Siân Mughan, Arizona State University

Teaching Experience

Cyber-security Management and Public Policy – Undergraduate Course. Rochester Institute of Technology. (Online and in-person)	Fall 2024, Spring 2025
Readings in Public Policy (PUBL 700) – Graduate Course. Rochester Institute of Technology. (Online and in-person)	Fall 2024
Public Service & Policy in the 21st Century (PAF 200) – Undergraduate Course. Arizona State University, School of Public Affairs. (Online and in-person)	Fall 2022 – Spring 2023
Public Management (PAF 520) – Graduate Course. Arizona State University, School of Public Affairs. (Online)	Summer 2020

Awards and Honors

NASPAA Emerging Scholar Award. *Network of Schools of Public Policy, Affairs, and Administration.*	Oct. 2023

Outstanding Instruction by a Doctoral Student. *School of Public Affairs. Arizona State University.*	Apr. 2023
Outstanding Doctoral Student Award. *School of Public Affairs. Arizona State University.*	Apr. 2022

Research Experience

Graduate Research Assistant, Center for Science, Technology and Environmental Policy Studies (CSTEPS) — **Phoenix, USA**

1. *National Survey of Technology and Civic Participation in Local Governments* — May 2024 – Aug. 2024

   Research team member, sample frame development, designed and administered a national survey, organized junior students' work during the data cleaning process, developed the codebook and project report

2. *National Science Foundation – Rapid Grant: Linking institutional logics and data sharing to research outputs before and after SARS-CoV-2 peak infection (#2029936)– $84,400/$195,000 PI Dr. Eric W. Welch, Co-PI Dr. Federica Fusi, (UIC)* — June 2020 – Present

   Project Manager, coordinated an NSF-funded global project across two universities (UIC and ASU). Led the sample frame development and the design of two global surveys, coordinated faculty and students during the survey administration and design, responsible for data cleaning and management, development of codebook and project report, managed of IRB submission

3. *CSTEPS Transit Survey 2022 Dr. Eric W. Welch, Dr. Elizabeth A. Corley, Dr. Justin M. Stritch* — Feb. 2022 – Nov. 2023

   Project Manager, led project coordinating peers in developing the sample frame, designed and administered a national survey, organized junior students' work during the data cleaning process, developed the codebook and project report, managed IRB submission

4. *Scientist Opinion Panel Survey (SciOPS) Dr Eric W. Welch, Dr Mary K. Feeney, Dr. Tim Johnson (UIC)* — June 2020 – Present

   Research team member, tasks included survey design, data cleaning, and drafting final report and policy memos

Heldrich Center for Workforce Development (Heldrich Center) — Feb. 2024 – Apr. 2024

5. *Digital Equity Lab – Dr. Gregory Porumbescu (Rutgers SPAA), Dr. Andrea Hetling (Rutgers Bloustein School)*

   Research team member, tasks included data analysis, literature reviews, reports development.

Graduate Research Assistant, Center on Technology, Data and Society (CTDS)

6. *Venture Forward – (GoDaddy.com) Dr. Karen Mossberger* — Aug. 2019 – June 2020

Research team member, tasks included data analysis to evaluate the role of the density of domain name websites on local prosperity and opportunity using a dataset of GoDaddy customers in the US. The project has been featured in the [New York Times](#) and the Brookings Institute.

Service

Ad hoc reviewer: Journal of Public Administration Research and Theory (JPART); Public Management Review (PMR); Government Information Quarterly (GIQ); Information, Communication and Society (ICS); Telecommunication Policy (JTPO); Journal of Environmental Planning and Management (JEPM); Academy of Management Conference

Conference Discussant: Midwest Political Science Association (MPSA) 2021, undergraduate student section discussant

Co-Chair and Member of the Organizing Committee: ASU – Tohoku University Joint PhD Seminar Series on Technology, Science and Innovation Policy (Sept. 2020 – May 2024)
Volunteer: Public Management Research Conference (PMRC), 2022

Member of the Policies and Procedures committee – College of Liberal Arts – Rochester Institute of Technology (Jan. 2025 – Jan. 2028)

Instructor "An intro to Access": Taught to diverse learners Access basics, covering form creation, queries, and other essential functions (Jan. 2023 – June 2023)

Research & Travel Funding

Travel Grant *Graduate and Professional Association (GPSA).* $950	Sept. 2022
University Graduate Fellowship. *ASU School of Public Affairs.* $900	Aug. 2022
ICPSR Scholarship. *ASU School of Public Affairs.* $2,500	Jul. 2022 – Aug. 2022
Education Travel Award. *Center for Science, Technology and Environmental Policy Studies.* $1,000	Jul. 2022 – Aug. 2022
University Graduate Fellowship. *ASU School of Public Affairs.* $605	Feb. 2022
University Graduate Fellowship. *ASU School of Public Affairs.* $1,565	Jan. 2021
University Graduate Fellowship. *ASU School of Public Affairs.* $804	Jul. 2020

Scholarships

Graduate Scholarship. *Arizona State University*	2019 – Present
Fondo Sostegno Giovani. *Bocconi University*	2016
Erasmus+ Scholarship. *European Commission*	2014

Languages

Italian (native); **English** (expert); **Spanish** (intermediate), **French** (beginner), **Chinese** (beginner)

IT Skills

Office Suite (excellent), **R** (advanced), **MPLUS** (intermediate), **Tableau** (intermediate), **SPSS** (intermediate)

Other Relevant Work Experiences

Deloitte Consulting   **Milan, Italy**
Government & Public Services: **Consultant**   Nov. 2017 – Jul. 2019
Main tasks: PMO activities. Market and benchmark analysis. Reporting. Analysis of how to improve in terms of efficiency and effectiveness the operational processes of Italian public organizations.

PwC Italy   **Milan, Italy**
Transfer Pricing: **Analyst**   Feb. 2017 – Nov. 2017
Local file and Masterfile drafting complying with OECD guidelines; fiscal planning; scenario analysis