

Kris Wernstedt, Professor Emeritus (he/him/his)
Urban Affairs and Planning, School of Public & International Affairs, Virginia Tech
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Areas of Expertise

Urban Resilience Policy and Planning: natural hazards, urban transformations, adaptation to climate change and variability, solid waste management, infrastructure

International Development: informal settlements, household solid waste, drinking water, and sanitation (sub-Saharan Africa)

Decision-Making under Uncertainty: decision heuristics, risk, behavioral economics

Contamination and Redevelopment: regulatory reform, institutional controls, mining

Methods: statistical analysis, survey design, geographic information systems

Academic Qualifications

Ph.D., *City and Regional Planning*, Cornell University (US), 1991

M.R.P., *City and Regional Planning*, Cornell University (US), 1989

M.S., *Water Resources Management*, University of Wisconsin (US), 1983

B.S., *Geography*, Western Michigan University (US), 1980

Professional Experience

2006-present, *Professor Emeritus, Professor, and Associate Professor*, Urban Affairs & Planning, School of Public and International Affairs, Virginia Tech (US)

2016-2018, *U.S. Fulbright Scholar*, Inst. of Human Settlements Studies, Ardh U. (Tanzania)

1990-2006, *Fellow*, Resources for the Future, Washington, DC (US)

Refereed Journal Articles (previous 6 years)

Wernstedt, K., Velotti, L., & Roberts, P.S. Forthcoming. "Values from the frontlines: Planners and other local public officials on loss of life and equity in flood risk mitigation." *Journal of the American Planning Association*.
<https://doi.org/10.1080/01944363.2025.2517867>.

Bian, Ruijie "Rebecca", Pamela Murray-Tuite, Kris **Wernstedt**, and Seth Guikema. 2025. "Out-of-home activity adaptations of commuters and non-workers to the power outage at home induced by hurricane Irma." *Travel Behaviour and Society* 40:101017. doi: <https://doi.org/10.1016/j.tbs.2025.101017>.

Misra, Shalini, Norhan Abdelgawad, Kris **Wernstedt**, Morva Saaty, Jaitun Patel, Jeffrey Marion, and Scott McCrickard. 2024. "Toward a management framework for smart and sustainable resource management: The case of the Appalachian Trail." *Journal of Environmental Management* 372: <https://doi.org/10.1016/j.jenvman.2024.123422>.

Shen, Jiayun, Pamela Murray-Tuite, Kris **Wernstedt**, and Seth Guikema. 2024. "Estimating pre-impact and post-impact evacuation behaviors – An empirical study of Hurricane Ida in coastal Louisiana and Mississippi." *Journal of Transport Geography* 118:103925. <https://doi.org/10.1016/j.jtrangeo.2024.103925>.

Refereed Journal Articles (continued)

- Kihila, Jacob, **Wernstedt**, Kris, & Mengiseny Kaseva. 2021. "Waste Segregation and Potential for Recycling -A Case Study in Dar es Salaam City, Tanzania." *Sustainable Environment* 7 (1):1935532. doi: 10.1080/27658511.2021.1935532.
- Mwanyoka, Iddi, Makarius Mdemu, and Kris **Wernstedt**. 2021. "The Reality of Local Community Participation in the Natural Gas Sector in Southeastern Tanzania." *The Extractive Industries and Society* 8(1), 303-315. doi.org/10.1016/j.exis.2020.12.003.
- Roberts, Patrick S., Lucia Velotti, and Kris **Wernstedt**. 2020. "How Public Managers Make Tradeoffs Regarding Lives: Evidence from a Flood Planning Survey Experiment." *Administration & Society* July 2020. <https://doi.org/10.1177/0095399720944811>.
- Wernstedt**, Kris, Jacob Kihila, & Mengiseny Kaseva. 2020. "Biases and Environmental Risks in Urban Africa: Household Solid Waste Decision-Making." *Journal of Environmental Planning & Management* 63(11), 1946-1964. doi: 10.1080/09640568.2019.1691510.
- Kaseva, Mengiseny, Kris **Wernstedt**, & Jacob Kihila. 2019. "Measurement and Quantification of Residential Solid Waste in a Metropolitan City of a Developing Country." *Journal of Solid Waste Technology & Management* 45(4), 485-495. doi.org/10.5276/JSWTM/2019.485.
- Murray-Tuite, Pamela, Elham Hajhashemi, Susan Hotle, & Kris **Wernstedt**. 2019. "Using Agent-Based Modeling to Evaluate the Effects of Hurricane Sandy's Recovery Timeline on the Ability to Work." *Transportation Research Part D: Transport & Environment* 77, 506-524. <https://doi.org/10.1016/j.trd.2019.08.011>.
- Wernstedt**, Kris, Patrick S. Roberts, Joseph Arvai, & Kelly Redmond. 2019. "How Emergency Managers (Mis?) Interpret Forecasts." *Disasters* 43(1), 88-109. <https://doi.org/10.1111/disa.12293>.
- Roberts, Patrick & Kris **Wernstedt**. 2019. "Decision Biases and Heuristics Among Emergency Managers: Just Like the Public They Manage For?" *The American Review of Public Administration* 49(3), 292-308. <https://doi.org/10.1177/0275074018799490>.

Teaching (at Virginia Tech, unless otherwise indicated)

Advanced Quantitative Techniques In Urban Analysis
Cost-Benefit Analysis
Geographic Information Systems in Planning (GIS)
International Development
Knowledge, Theory, & Planning
GIS Network Analysis
Planning Theory and Practice
Policy, Planning, and Management in Developing Countries
Python Programming for Progressive Planning and Public Policy
Quantitative Techniques in Planning (crosslisted w/ Public Administration & Policy Inquiry)
Survey Research Tools for Metropolitan Resilience
Environmental Economics (Ardhi University, Tanzania)
Public Policy Analysis (Ardhi University, Tanzania)
Analysis & Governance of Sustainable Development (Venice International University, Italy)
Contemporary Europe Environmental Policy and Planning (Steger Center, Switzerland)