

Kris Wernstedt, Professor (he/him/his)
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Areas of Expertise

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

International Development: solid waste, water and sanitation (sub-Saharan Africa)

Resilience Policy and Planning: natural hazard mitigation, urban transformations, adaptation to climate change and variability, urban infrastructure

Contamination and Redevelopment: regulatory reform, institutional controls

Methods: statistical analysis, survey design, geographic information systems

Academic Qualifications

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

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

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

B.S., *Geography*, Western Michigan University, 1980

Professional Experience

2018-present, *Professor*, Urban Affairs & Planning, Virginia Tech

2016-2018, *U.S. Fulbright Scholar*, Institute of Human Settlements Studies, Ardhi University

2013-2016, *Co-Director*, Urban Affairs & Planning, Virginia Tech

2006-2018, *Associate Professor*, Urban Affairs & Planning, Virginia Tech

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

Refereed Journal Articles (previous 5 years)

Mwanyoka, Iddi, Makarius Mdemu, and Kris **Wernstedt**. In Press. "The Reality of Local Community Participation in the Natural Gas Sector in Southeastern Tanzania. *The Extractive Industries and Society*. <https://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*. <https://doi.org/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: Case Study in Four Selected Informal Settlements in Dar Es Salaam City, Tanzania." *Journal of Solid Waste Technology & Management* 45(4), 485-495.

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>.

Refereed Journal Articles, continued

- 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>.
- Roberts, Patrick S., & Kris **Wernstedt**. 2018. "Herbert Simon's Forgotten Legacy for Improving Decision Processes." *International Public Management Journal*:1-26. <https://doi.org/10.1080/10967494.2018.1502223>.
- Kontou, Eleftheria, Pamela Murray-Tuite, & Kris **Wernstedt**. 2017: "Duration of Commute Travel Changes in the Aftermath of Hurricane Sandy using Accelerated Failure Time Modeling." *Transportation Research Part A: Policy & Practice*. 100:170-181. <https://doi.org/10.1016/j.tra.2017.04.015>.
- Lyon, Thomas P., Haitao Yin, Allen Blackman, & Kris **Wernstedt**. 2017: "Voluntary Cleanup Programs for Brownfield Sites: A Theoretical Analysis." *Environmental & Resource Economics*. 1-26. <https://doi.org/10.1007/s10640-017-0121-z>.
- Kontou, Eleftheria, Pamela Murray-Tuite, & Kris **Wernstedt**. 2016: "Commuter Adaptation in Response to Hurricane Sandy's Damage." *Natural Hazards Review*, [https://doi.org/10.1061/\(ASCE\)NH.1527-6996.0000231](https://doi.org/10.1061/(ASCE)NH.1527-6996.0000231).
- Roberts, Patrick & Kris **Wernstedt**. 2016: "Using Climate Forecasts Across a State's Emergency Management Network." *Natural Hazards Review*, [https://doi.org/10.1061/\(ASCE\)NH.1527-6996.0000222](https://doi.org/10.1061/(ASCE)NH.1527-6996.0000222).
- Wernstedt**, Kris & Pamela Murray-Tuite. 2015: "The Dynamic Nature of Risk Perceptions after a Fatal Transit Accident." *Risk Analysis*, 35(3), 536-552. <https://doi.org/10.1111/risa.12284>.

Externally Funded Projects (previous 5 years)

- RAPID: Distancing & Digital Information in the Face of COVID-19*, NSF, Co-Principal Investigator, 2020-present
- Caution: Heavy Load Ahead*, NSF, Principal Investigator, 2017-2019
- Urban Missing Data in Tanzania's Urban Informal Settlements*, UK Department for International Development, Coalition for Urban Transitions, and World Resources Institute, Investigator, 2017-2018
- Coordinated, Behaviorally-Aware Recovery for Transportation and Power Disruptions*, NSF, Co-Principal Investigator, 2017-present
- Emergency Management in Rural America: Decision-Makers Use of Climate Science in Flood Planning and Management*, National Science Foundation, Principal Investigator, 2011-2017
- Seasonal Climate Signals: Developing a Community of Practice*, National Oceanic and Atmospheric Administration, Principal Investigator, 2013-2016