

KEVIN M. SMITH

PhD. Candidate in Environmental & Water Resources Engineering
NSF NRT Fellow in Data-Driven Decision-Making
NSF IGERT Fellow in Water and Diplomacy

EDUCATION

- 2013–
Current • **Tufts University**
PhD Candidate, Environmental and Water Resources Engineering
 Medford, MA
- 2011–
2013 • **Columbia University**
B.S. in Earth and Environmental Engineering
 New York, NY
- 2008–
2013 • **Oberlin College**
B.A. in Environmental Studies
 Oberlin, OH



REFEREED JOURNAL PUBLICATIONS

- 2021
IEEE
TAC • **Risk-sensitive safety analysis using Conditional Value-at-Risk**
M. P. Chapman, R. Bonalli, **K. M. Smith**, I. Yang, M. Pavone, C. J. Tomlin
 [10.1109/TAC.2021.3131149](https://doi.org/10.1109/TAC.2021.3131149)
- 2021
IEEE
LCSYS • **Classical Risk-Averse Control for a Finite-Horizon Borel Model**
M. P. Chapman, **K. M. Smith**  [10.1109/LCSYS.2021.3114126](https://doi.org/10.1109/LCSYS.2021.3114126)
- 2021
Frontiers
in Water • **Addressing Complex Challenges in Coupled Natural and Human Systems Through Principled Pragmatism**
K. M. Smith, W. Palash, E. Choudhury, S. Islam  [10.3389/frwa.2021.61725](https://doi.org/10.3389/frwa.2021.61725)
- 2014
Applied
Energy • **Forecasting Energy Consumption of Multi-family Residential Buildings Using Support Vector Regression**
R. K. Jain, **K. M. Smith**, P. J. Culligan, J. E. Taylor
 [10.1016/j.apenergy.2014.02.057](https://doi.org/10.1016/j.apenergy.2014.02.057)

REFEREED CONFERENCE PUBLICATIONS

- 2019
American
Control
Conference • **A Risk-Sensitive Finite-Time Reachability Approach for Safety of Stochastic Dynamic Systems**
M. P. Chapman, J. Lacotte, A. Tamar, D. Lee, **K. M. Smith**, V. Cheng, J. F. Fisac, S. Jha, M. Pavone, C. J. Tomlin
 [10.23919/ACC.2019.8815169](https://doi.org/10.23919/ACC.2019.8815169)
- 2018
IEEE
SusTech • **Reachability Analysis as a Design Tool for Stormwater Systems**
M. P. Chapman, **K. M. Smith**, V. Cheng, D. L. Freyberg, C. J. Tomlin
 [10.1109/SusTech.2018.8671362](https://doi.org/10.1109/SusTech.2018.8671362)

CONTACT INFO

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-  | stormwater.io

SKILLS

In The Lab

R, MATLAB/GNU Octave,
C#, SQL; HPC & cloud

In The Field

field methods, sensor and
data logger design, serial
protocols, wireless
telemetry