Jonathan B. Burkhardt, Environmental Engineer in EPA's National Risk Management Research Laboratory

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Areas of Expertise: Water distribution system modeling, adsorption modeling and event detection software. Current research involves modeling water quality in premise plumbing systems and modeling trace chemical adsorption in granular activated carbon and ion-exchange systems. Additional research has involved application of event detection software for a variety of monitoring applications.

Select Publications:
Hart, D., J.S. Rodriguez, J. **Burkhardt**, B. Borchers, C. Laird, R. Murray, K. Klise, and T. Haxton (2018). Quantifying Hydraulic and Water Quality Uncertainty to Inform Sampling of Drinking Water Distribution Systems. *Journal of Water Resources Planning and Management*, In Press.

Leow, A., J. **Burkhardt**, W.E. Platten III, B. Zimmerman, N.E. Brinkman, A. Turner, R. Murray, G. Sorial, and J. Garland (2017). Application of the CANARY event detection software for real-time performance monitoring of decentralized water reuse systems. *Environmental Science: Water Research & Technology*, **3**:224-234.

Klise, K. A., D. Moriarty, M. L. Bynum, R. Murray, J. **Burkhardt**, and T. M. Haxton. Water Network Tool for Resilience (WNTR) User Manual. U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-17/264, 2017.

Hall, J., S. Panguluri, R. Murray, and J. **Burkhardt** (2017). CANARY Eases Water Quality Event Detection. *OpFlow*, April 2017: 30-32.

Burkhardt, J.B., J. Szabo, S. Klosterman, J.Hall, and R. Murray (2017) Modeling the Fate and Transport of Arsenic in the Distribution System Simulator. *Environmental Modelling & Software*, **93**:322–331.

Configuring Online Monitoring Event Detection Systems (2014). U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-14/254.

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Education:
- Ph.D., Chemical Engineering, University of Cincinnati, 2013
- M.S., Chemical Engineering, University of Cincinnati, 2005
- B.S., Chemical Engineering, University of Cincinnati, 2003

Professional Experience:
- Environmental Engineer, USEPA, Cincinnati, OH, 2017–Present
- Federal Post-Doctoral Fellow, USEPA, Cincinnati, OH, 2015–2017
- ORISE Post-Doctoral Fellow, USEPA, Cincinnati, OH, 2013–2015
- Research/Teaching Assistant, University of Cincinnati, Cincinnati, OH, 2003–5, 2008–2013