

## **Audrey Bone, Toxicologist, in EPA's National Center for Computational Toxicology**

### [Mailing Address](#)

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**Area of Expertise:** Dr. Bone is a toxicologist with 7 years of experience conducting independent research on the impact of environmental exposures on biological pathways. She has experience in mechanistic and eco-toxicology using zebrafish, mosquitofish and Atlantic killifish as model systems as well as computational toxicology using quantitative high throughput screening (qHTS) datasets such as ToxCast.

### **Select Publications:**

Bone AJ, Matson CW, Colman BP, Yang X, Meyer JN and Di Giulio RT. [Silver nanoparticle toxicity to Atlantic killifish and Caenorhabditis elegans: A comparison of mesocosm, microcosm and conventional laboratory studies](#). Environmental Toxicology and Chemistry. 2015, 34 (2), pp 275-282. [Exit](#)

Bone AJ, Colman BP, Gondikas AP, Newton K, Harrold K, Unrine JM, Klaine SJ, Matson CW, and DiGiulio RT. [Biotic and abiotic interactions in aquatic microcosms determine fate and toxicity of Ag nanoparticles: Part 2 –Toxicity and Ag Speciation](#). Environmental Science & Technology. 2012, 46 (13), pp 6925-6933. [Exit](#)

Clark BW, Bone AJ and Di Giulio RT. [Resistance to teratogenesis by F1 and F2 embryos of PAH-adapted Fundulus heteroclitus is strongly inherited despite reduced recalibration of the AHR pathway](#). Environmental Science and Pollution Research. 2013, 1-11. [Exit](#)

Lowry GV, Espinasse BP, Badireddy AR, Richardson CJ, Reinsch BC, Bryant LD, Bone AJ, Deonarine A, Chae S, Therezien M, Colman BP, Hsu-Kim H, Bernhardt ES, Matson CW and Wiesner MR. [Long-term transformation and fate of manufactured Ag NPs in a simulated large-scale freshwater emergent wetland](#). Environmental Science & Technology. 2012, 46 (13), pp 7027-7036. [Exit](#)

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### **Education:**

- B.S., Clemson University, Clemson, SC; Chemistry, 2009
- Ph.D., Duke University, Durham, NC; Integrated Toxicology and Environmental Health

### **Professional Experience:**

- K.C. Donnelly Externship Award Supplement, 2013
- Duke Integrated Toxicology and Environmental Health Program Fellowship, 2009
- Undergraduate Award for Excellence in Environmental Chemistry, ACS, 2007
- Robert C. Byrd Fellowship, 2005-2009

### **Additional Publications:**

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