

## Education

Ph.D. University of Georgia, Ecology	<i>expected 2018</i>
M.S. Auburn University, Fisheries and Allied Aquacultures	2011
B.S. Michigan State University, LBS Microbiology and Immunology	2007

## Scholarships, Honors and Awards

Odum School of Ecology Small Grant (\$871)	2015
Alabama Fisheries Association David Bayne Scholarship (\$500)	2009-2010
Auburn University Thesis and Dissertation Research Award (\$1000)	2008-2009
Michigan State University Undergraduate Research and Arts Forum Merit Award (\$50)	2007

## Teaching Experience

Ecology, Auburn University	2009 (spring, fall)
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- Lectured ecology laboratory sections, in addition to guiding students in a field setting
- Organized and ran review sessions for lecture component of class
- Guided students through the scientific writing process
- Received high student evaluations and requested to return by department

Survey of Life, Auburn University	2011 (spring)
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- Introduced 4 sections of non-science majors to scientific concepts
- Prepared and ran review for laboratory practical

## Conference Presentations, Posters and Invited Talks

- [1] R. B. Kaul, S. Bowden, L. Wachsmuth, E. Dolan, and J. M. Drake. Population biology of infectious diseases reu site: Math majors at the bench. Ecological Society of America, August 2015.
- [2] R. B. Kaul, A. Smith, and J. M. Drake. Development of deterministic and stochastic models for a t7 phage- *E. coli* system with vaccination strategy implementation. Ecology and Evolution of Infectious Diseases, May 2015.
- [3] R. B. Kaul, A. Smith, and J. M. Drake. Exploring vaccine effectiveness through a model system. Odum Graduate Student Symposium, January 2015.
- [4] R. B. Kaul, A. Smith, and J. M. Drake. How does vaccine distribution affect the ability to control viral diseases. University of Arkansas at Little Rock, Biology Department, January 2015.
- [5] R. B. Kaul, A. M. Kramer, F. Dobbs, and J. Drake. Allee effects: Scaling down to the microbial level. Ecological Society of America, August 2014.
- [6] R. B. Kaul, A. M. Kramer, F. Dobbs, and J. Drake. Allee effects in experimental microbial systems. American Society for Microbiology, June 2012.

## Published Articles

- [1] R. B. **Kaul**, A. M. Kramer, F. C. Dobbs, and J. M. Drake. Experimental demonstration of an Allee effect in microbial populations. *Biology Letters*, *in press*. ISSN 1545-7885.
- [2] J. M. Drake, R. B. **Kaul**, L. W. Alexander, S. M. O'Regan, A. M. Kramer, J. T. Pulliam, M. J. Ferrari, and A. W. Park. Ebola Cases and Health System Demand in Liberia. *PLOS Biology*, 13(1): e1002056, Jan. 2015. ISSN 1545-7885.

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- [3] S. M. O'Regan, K. Magori, J. T. Pulliam, M. A. Zokan, R. B. **Kaul**, H. D. Barton, and J. M. Drake. Multi-scale model of epidemic fade-out: Will local extirpation events inhibit the spread of white-nose syndrome? *Ecological Applications*, 25(3):621–633, Apr. 2015. ISSN 1051-0761.
- [4] G. P. Horst, O. Sarnelle, J. D. White, S. K. Hamilton, R. B. **Kaul**, and J. D. Bressie. Nitrogen availability increases the toxin quota of a harmful cyanobacterium, *Microcystis aeruginosa*. *Water Research*, 54:188–198, May 2014. ISSN 00431354. doi: 10.1016/j.watres.2014.01.063.
- [5] J. D. White, R. B. **Kaul**, L. B. Knoll, A. E. Wilson, and S. Orlando. Large variation in vulnerability to grazing within a population of the colonial phytoplankter, *Microcystis aeruginosa*. *Limnology and Oceanography*, 56:1714–1724, 2011.
- [6] O. Sarnelle, J. Morrison, R. **Kaul**, G. Horst, H. Wandell, and R. Bednarz. Citizen monitoring: Testing hypotheses about the interactive influences of eutrophication and mussel invasion on a cyanobacterial toxin in lakes. *Water Research*, 44(1):141–150, Jan. 2010. ISSN 00431354.
- [7] A. E. Wilson, R. B. **Kaul**, and O. Sarnelle. Growth Rate Consequences of Coloniality in a Harmful Phytoplankter. *PLoS ONE*, 5(1):e8679, Jan. 2010. ISSN 1932-6203.