Katie Scranton

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Experience

Senior Data Scientist, Elsevier — 2018 - present
Precision Medicine

Lecturer, University of California, Los Angeles — 2018
Life Sciences

Postdoctoral Fellow, University of California, Los Angeles — 2016 - 2018
Department of Ecology and Evolutionary Biology

Postdoctoral Fellow, Yale University — 2012 - 2015
Department of Ecology and Evolutionary Biology

Education

Ph.D., University of California, Berkeley — 2006 - 2012
Department of Environmental Science, Policy, and Management

B.Sc., McGill University — 2000 - 2005
Major in Biology, Minor in Mathematics and Statistics

Publications

1. A. Hastings, K. Abbott, K. Cuddington, T. Francis, G. Gellner, Y.C. Lai, A. Morozov, S. Petrovskii, **K. Scranton**, M.L. Zeeman, 2018. Transient phenomena in ecology. *Science*. doi: 10.1126/science.aat6412

2. Littrell, K.A., S.R. Gephard, A.D. MacDonald, E.P. Palkovacs, **K. Scranton**, and D.M. Post, 2018. Pre-zygotic isolation and potential for pre-zygotic isolation and hybridization between landlocked and anadromous alewife (*Alosa pseudoharengus*) following secondary contact. *Evolutionary Applications*. DOI: 10.1111/eva.12645

3. **Scranton, K.**, P. Amarasekare, 2017. Predicting phenological shifts in a changing climate. *PNAS*. doi: 10.1073/pnas.1711221114

4. **Scranton, K.**, V. Lummaa, S.C. Stearns, 2016. The importance of the timescale of the fitness metric for estimates of selection on phenotypic traits during a period of demographic change. *Ecology Letters*. **19**: 854-861.

5. **Scranton, K.**, D.A. Vasseur, 2016. Coexistence and emergent neutrality generate synchrony among competitors in fluctuating environments. *Theoretical Ecology*. **9(3)**:353-363.

6. de Valpine P., **K. Scranton**, J. Knape, K. Ram, and N.J. Mills, 2014. The importance of individual developmental variation in stage-structured population modeling. *Ecology Letters*. **17(8)**:1026-1038

7. **Scranton, K.**, J. Knape, and P. de Valpine, 2014. An approximate Bayesian computation approach to parameter estimation in a stochastic stage-structured population model. *Ecology*. **95(5)**:1418-1428

8. **Scranton, K.**, M. Stavrinides, N. J. Mills, and P. de Valpine, 2013. Small-scale intraspecific life history variation in herbivorous spider mites (*Tetranychus pacificus*) is associated with host plant cultivar. *PLoS ONE* **8**:e72980.

9. de Valpine, P., **K. Scranton**, and C. P. Ohmart, 2010. Synchrony of population dynamics of two vineyard arthropods occurs at multiple spatial and temporal scales. *Ecological Applications.* **20**:1926–1935.

Invited Talks

Women in Statistics and Data Science Conference, American Statistical Association — October 2017
WSDS R-Ladies Panel: Improving Gender Diversity in a Male Dominated Community

Louisiana State University — May 2017
Department of Oceanography and Coastal Sciences

Rutgers, the State University of New Jersey — April 2017
Department of Ecology, Evolution, and Natural Resources

University of California, Riverside — October 2016
Department of Biology

University of Sheffield, United Kingdom — April 2015
Department of Animal and Plant Sciences

Haverford College, Pennsylvania — November 2014
Department of Mathematics and Statistics

Teaching

Lecturer, University of California, Los Angeles — Spring Quarter 2018
Introduction to Collaborative Learning Theory & Practice

Lecturer, University of California, Los Angeles — Winter Quarter 2018
Mathematics for Life Scientists

Outreach

Tutorial on blogdown - R-Ladies Philadelphia	September 2018
Founder and Organizer of R-Ladies LA	2016 - 2018
Reviewer for Graduate Women in Science National Fellowship Program	2017
Women In Science at Yale mentor	2013-2015
New Haven Science Fair mentor, Fairhaven School	2013-2014
Yale Pathways to Science volunteer	2013
Coordinator and Planning Committee member, Expanding Your Horizons conference	2011-2012
National Science Foundation GK-12 Fellow: Experiential science education	2010-2012
Tech Trek science camp: Professional women's evening	2008-2009

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