

**Ben A. Flanagan**

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**RESEARCH INTERESTS**

Evolution – Invasion biology – Genomics – Oxidative stress – Sex differences – Aging

**EDUCATION**

University of Southern California, Los Angeles, CA	Expected May 2022
Ph.D. Candidate Biological Sciences	
Advisor: Dr. Suzanne Edmands	
College of Charleston, Charleston, SC	May 2017
Master of Science in Marine Biology with Honors	
Advisor: Dr. Erik Sotka	
Clemson University, Clemson, SC	May 2014
Bachelor of Science in Genetics with Minor in Wildlife Fisheries Biology	
Advisor: Dr. Julia Frugoli	

**PUBLICATIONS**

- [8] **Flanagan, B.A.**, Huang, E.<sup>‡</sup> and Edmands S. *In prep.* Exogenous oxidative stressors illicit differing age and sex effects. *Experimental Gerontology*.
- [7] Li, N., **Flanagan, B.A.**, and Edmands, S. *Under review.* Food deprivation exposes sex-specific trade-offs between stress tolerance and lifespan in the copepod *Tigriopus californicus*. *Journal of Evolutionary Biology*.
- [6] Murren, C.J., Krueger-Hadfield S.A., Clark A., **Flanagan, B.A.**, Lees, L.E. and Sotka, E.E., *Accepted.* Individuals from non-native populations are stronger and bigger than individuals from native populations of a widespread seaweed. *Biological Invasions*.
- [5] **Flanagan, B.A.**, Li, N. and Edmands, S., 2021. Mitonuclear interactions alter sex-specific longevity in a species without sex chromosomes. *Proceedings of the Royal Society B*, 288(1962), p.20211813.
- [4] Krueger-Hadfield, S.A., **Flanagan, B.A.**, Godfroy, O., Hill-Spanik, K.M., Nice, C.C., Murren, C.J., Strand, A.E. and Sotka, E.E., 2021. Using RAD-seq to develop sex-linked markers in a haplodiplontic alga. *Journal of Phycology*, 57(1), pp.279-294.
- [3] **Flanagan, B.A.**, Krueger-Hadfield, S.A., Murren, C.J., Nice, C.C., Strand, A.E. and Sotka, E.E., 2021. Founder effects shape linkage disequilibrium and genomic diversity of a partially clonal invader. *Molecular Ecology*, 30(9), pp.1962-1978.
- [2] Li, N., **Flanagan, B.A.**, Partridge, M., Huang, E.J.<sup>‡</sup> and Edmands, S., 2020. Sex differences in early transcriptomic responses to oxidative stress in the copepod *Tigriopus californicus*. *BMC genomics*, 21(1), pp.1-11.
- [1] Sotka, E.E., Baumgardner, A.W., Bippus, P.M., Destombe, C., Duermit, E.A., Endo, H., **Flanagan, B.A.**, Kamiya, M., Lees, L.E., Murren, C.J. and Nakaoka, M., 2018. Combining niche shift and population genetic analyses predicts rapid phenotypic evolution during invasion. *Evolutionary Applications*, 11(5), pp.781-793.

underline indicates corresponding author(s), ‡ undergraduate mentee coauthor

**PRESENTATIONS - underline indicates presenter**

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**INVITED SEMINAR:**

2019 Women in Science and Engendering STEM-BYTES at the University of Southern California

**ORAL:**

- 2021 Marine and Environmental Biology Section Departmental Seminar; **B.A. Flanagan**,  
 2021 Joint conference of the American Society of Naturalists, the Society for the Study of Evolution, and the Society of Systematic Biologists; **B.A. Flanagan**, N. Li, S. Edmands  
 2020 Society for Integrative and Comparative Biologists; **B.A. Flanagan**, N. Li, S. Edmands  
 2019 Joint conference of the American Society of Naturalists, the Society for the Study of Evolution, and the Society of Systematic Biologists; **B.A. Flanagan**, N. Li, S. Edmands  
 2019 Joint conference of the American Society of Naturalists, the Society for the Study of Evolution, and the Society of Systematic Biologists; N. Li, **B.A. Flanagan**, S. Edmands  
 2019 Joint conference of the American Society of Naturalists, the Society for the Study of Evolution, and the Society of Systematic Biologists; M. Partridge, E. Watson, **B.A. Flanagan**, S. Edmands  
 2018 Marine and Environmental Biology Section Retreat, Department of Biological Sciences, University of Southern California; **B.A. Flanagan**, N. Li, S. Edmands  
 2018 Marine Evolution; E.E. Sotka, A. Baumgartner, P. Bippus, C. Destombe, E. Duermit, H. Endo, **B.A. Flanagan**, L. Lees, M. Kamiya, C.J. Murren, M. Nakaoka, S. Shinker, A.E. Strand, R. Terada, M. Valero, F. Weinberger, S.A. Krueger-Hadfield  
 2017 Western Society of Naturalists; **B.A. Flanagan**, S.A. Krueger-Hadfield, C.J. Murren, E.E. Sotka  
 2017 Benthic Ecology Meeting; **B.A. Flanagan**, S.A. Krueger-Hadfield, C.J. Murren, E.E. Sotka  
 2017 Benthic Ecology Meeting; S.A. Krueger-Hadfield, N. Kollars, **B.A. Flanagan**, S. Shinker, A.E. Strand, J.E. Byers, R. Terada, T. Greig, M. Hammann, D. Murray, F. Weinberger, E.E. Sotka  
 2017 Benthic Ecology Meeting; E.E. Sotka, A. Baumgartner, P. Bippus, C. Destombe, E. Duermit, H. Endo, **B.A. Flanagan**, L. Lees, M. Kamiya, C.J. Murren, M. Nakaoka, S. Shinker, A.E. Strand, R. Terada, M. Valero, F. Weinberger, S.A. Krueger-Hadfield  
 2016 Western Society of Naturalists; E.E. Sotka, A. Baumgartner, P. Bippus, C. Destombe, E. Duermit, H. Endo, **B.A. Flanagan**, M. Kamiya, L. Lees, C.J. Murren, M. Nakaoka, S. Shinker, A.E. Strand, R. Terada, M. Valero, F. Weinberger, S.A. Krueger-Hadfield  
 2016 Joint conference of the American Society of Naturalists, the Society for the Study of Evolution, and the Society of Systematic Biologists; **B.A. Flanagan**, S.A. Krueger-Hadfield, E.E. Sotka  
 2016 College of Charleston Graduate Student Research Colloquium; **B.A. Flanagan**, S.A. Krueger-Hadfield, E.E. Sotka

**POSTER:**

- 2019 Joint conference of the American Society of Naturalists, the Society for the Study of Evolution, and the Society of Systematic Biologists; N. Li, **B.A. Flanagan**, S. Edmands  
 2018 Population, Evolutionary and Quantitative Genetics Conference; N. Li, **B.A. Flanagan**, S. Edmands  
 2018 National Conference on Undergraduate Research; K. Campbell<sup>†</sup>, **B.A. Flanagan**, E.E. Sotka  
 2015 College of Charleston Graduate Student Research Colloquium; **B.A. Flanagan**, S.A. Krueger-Hadfield, E.E. Sotka  
 2015 Plant Symbiotic Association: ASPB Southern Section; S. Nowak, T. Kassaw, **B.A. Flanagan**, E. Schnabel, J. Frugoli  
 2014 Undergraduate Creative Inquiry Research Symposium; **B.A. Flanagan**, K. Kotwis, T. Kassaw, E. Schnabel, J. Frugoli

2014 Plant Symbiotic Associations: ASPB Southern Section; **B.A. Flanagan**, T. Kassaw, E. Schnabel, J. Frugoli  
‡ undergraduate mentee

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### COMPETATIVE GRANTS

2019 R.C. Lewontin Early Award, Society for the Study of Evolution (\$3,000)

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### LEADERSHIP, SERVICE, AND OUTREACH

2021 - 2022 Graduate Student Worker Organization Committee, University of Southern California  
2021 Admission Committee Student Representative, Department of Biological Sciences, University of Southern California  
2021 Graduate Student Recruitment Coordinator, Department of Biological Sciences, University of Southern California  
2018 Student Retreat Director, Department of Biological Sciences, University of Southern California  
2014 – 2017 Community Outreach Research and Learning, College of Charleston  
2015 Funding Director, Marine Biology Graduate Student Association, College of Charleston  
2014 President, CLEMSONLiVE, Clemson University.  
2013 Committee Director, CLEMSONLiVE, Clemson University

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### HONORS, FELLOWSHIPS AND SCHOLARSHIPS

2022 University of Southern California Dornsife Fellow  
2020 Most Outstanding Teaching Assistant - Honors Organismal Biology and Evolution  
2018 Most Outstanding Teaching Assistant - Honors Organismal Biology and Evolution  
2017 University of Southern California Dornsife Fellow  
2017 Outstanding Graduate Student in Marine Biology  
2016 College of Charleston Marine Genomics Fellow  
2013, 2014 Clemson University Dean's List  
2010, 2012 Clemson University President's List  
2010 – 2014 South Carolina Palmetto LIFE Math and Science Scholarship

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### TEACHING EXPERIENCE

2020 Honors Organismal Biology and Evolution TA. Fall. University of Southern California.  
2019 Honors Organismal Biology and Evolution TA. Fall. University of Southern California.  
2018 Honors Organismal Biology and Evolution TA. Fall. University of Southern California.  
2018 Cell Biology and Physiology Lab TA. Spring. University of Southern California.  
2016 Animal Behavior TA. Fall. College of Charleston.  
2016 Molecular Biology TA. Spring. College of Charleston.  
2015 Introduction to Cell and Molecular Biology TA. Spring. College of Charleston.  
2014 Evolution, Form and Function of Organisms TA. Fall. College of Charleston.

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### SOCIETY MEMBERSHIPS

2015 – Present Society for the Study of Evolution  
2017 – Present Western Society of Naturalists  
2014 – 2015 American Society of Plant Biologists