Marc A. Beer

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EDUCATION

Ph.D., Biology 2019—Present
Washington State University
GPA: 4.00/4.00

B.S., Biology 2015—2019
University of Iowa
Minor: Environmental Science
University Honors, Honors in Major, Phi Beta Kappa, with highest distinction
GPA: 4.19/4.00

FELLOWSHIPS TOTAL: $148,500.00

National Science Foundation Graduate Research Fellowship 2020—Present
$138,000

Philip H. Abelson Graduate Fellowship 2019—2021
Washington State University - $8,000.00

Iowa Center for Research by Undergraduates Summer Fellowship 2017
University of Iowa - $2,500.00

AWARDS and HONORS

Univ. of Iowa Honors Award for Outstanding Academic Achievement	2019
Phi Beta Kappa Society	Inducted 2018
Univ. of Iowa President's List	Seven semesters, 2016—2019
Univ. of Iowa Dean's List	Eight semesters, 2015—2019
Univ. of Iowa Tuition Scholarship	2016—2019
Univ. of Iowa Old Gold Scholarship	2015—2019
Univ. of Iowa National Scholars Award	2015—2019
Bill and John Fenton Scholarship	2018
Lowden Prize in Biology	2018
Rhodes Dunlap Second and Third Year Awards	2017—2018
Myrna Lee Sprengeler Memorial Scholarship	2017
Univ. of Iowa Classics Departmental Latin Award	2017
Ralph K. and Maxine J. Hibbs Scholarship	2016

RESEARCH EXPERIENCE

School of Biological Sciences, Washington State University 2019—Present
Doctoral Research, Advisor: Dr. Andrew Storfer

- Population genomics of the Tasmanian devil (*Sarchophilus harrisii*)
- Landscape genomics of the streamside salamander (*Ambystoma barbouri*)
    - Leveraged geographic information systems (GIS) data and reduced representation sequencing data to test for genetic-environment associations and identify candidate genes underlying local adaptation.

Department of Biology, University of Iowa 2017—2019

Undergraduate Honors Research, Advisor: Dr. Andrew Forbes

- Investigation of reproductive trait evolution in fly genus *Strauzia*
    - Quantified trait values for sexually dimorphic characters
    - Compared patterns of trait divergence among host-sharing species and non-host-sharing species
- Investigation of the thermal melanism hypothesis in three temporally isolated *Strauzia* species
    - Quantified thermal properties of differentially pigmented *Strauzia* species
    - Tested for differences in fitness proxies at cold temperatures among differentially pigmented *Strauzia* species

TEACHING EXPERIENCE

General Biology (BIO 102), Teaching Assistant 2020

School of Biological Sciences, Washington State University

- Taught 36 students per semester
- Led laboratory experiments

General Ecology (BIO 372), Teaching Assistant 2019

School of Biological Sciences, Washington State University

- Taught 36 students per semester
- Led laboratory and field experiments

PUBLICATIONS

Hippee, A.C., **Beer, M.A**., Bagley, R.K., Condon, M.A., Lisowski, E.A., Norrbom, A.L., and A.A. Forbes. Host shifting and host sharing in a genus of specialist flies diversifying alongside their sunflower hosts. *In review*, Journal of Evolutionary Biology.

Forbes, A.A., Bagley, R.K., **Beer, M.A**., Hippee, A.C., and H.A. Widmayer. 2018. Quantifying the unquantifiable: why Hymenoptera - not Coleoptera - is the most speciose animal order. BMC Ecology 18:21.

BOOK CHAPTERS

Storfer, A., Kozakiewicz, C.P., **Beer, M.A.**, and A.E. Savage. 2020. Applications of population genomics for understanding and mitigating wildlife disease. In Population Genomics: Wildlife (P. Hohenlohe and O.P. Rajora, eds.).

PRESENTATIONS

***** Presenter

*Hippee, A.C., **Beer, M.A**., Bagley, R.K., Condon, M.A., Lisowski, E.A., Norrbom, A.L., and A.A. Forbes. 01/2020. The phylogeny of genus *Strauzia* (Diptera: Tephritidae) reveals histories of host shifting, including repeated shifts onto the same plant hosts. Plant and Animal Genome Conference. San Diego, CA. Talk.

*Hippee, A.C., **Beer, M.A**., Bagley, R.K., Condon, M.A., Lisowski, E.A., Norrbom, A.L., and A.A. Forbes. 06/2019. The phylogeny of genus *Strauzia* (Diptera: Tephritidae) reveals histories of host shifting, including repeated shifts onto the same plant hosts. Evolution 2019. Providence, RI. Talk.

*Hippee, A.C., **Beer, M.A**., Bagley, R.K., and A.A. Forbes. 04/2019. The phylogeny of genus *Strauzia* (Diptera: Tephritidae) reveals histories of host shifting, including repeated shifts onto the same plant hosts. DSHB Symposium on Biological Sciences. Davenport, IA. Poster.

***Beer, M.A**., Hippee, A.C., and A.A. Forbes. 2018. Adaptive consequences of color variation among recently diverged varieties of a specialist insect. Iowa Center for Research by Undergraduates 14th Annual Spring Undergraduate Research Festival. University of Iowa, Iowa City, IA. Poster.

*Hippee, A.C., **Beer, M.A**., and A.A. Forbes. 04/2017. Evolution of adaptive coloration among recently diverged varieties of a specialist insect. DSHB Symposium on Biological Sciences. Davenport, IA. Poster.

SERVICE and OUTREACH

Palouse Discovery Science Center, Pullman, WA — 2019—Present

- Designed and led scientific enrichment activities for children ages 3-13yrs

Invited research talk, Undergraduate Research Club, Washington State University — 2020

- Presented doctoral research to promote interest in scientific research

Univ. of Iowa Biological Interests Organization Volunteer — 2015—2019
Fermilab Ecological Restoration Volunteer — 2017—2018
Univ. of Iowa Student Garden Volunteer — 2015—2016

PROFESSIONAL MEMBERSHIP

American Society of Naturalists — 2020—Present
Society for the Study of Evolution — 2018—2019