

EDUCATION

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

TOTAL: \$148,500.00

National Science Foundation Graduate Research Fellowship \$138,000	2020—Present
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Philip H. Abelson Graduate Fellowship <i>Washington State University</i> - \$8,000.00	2019—2021
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Iowa Center for Research by Undergraduates Summer Fellowship <i>University of Iowa</i> - \$2,500.00	2017
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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 Doctoral Research, Advisor: Dr. Andrew Storfer	2019—Present
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- Population genomics of the Tasmanian devil (*Sarchophilus harrisii*)
- Landscape genomics of the streamside salamander (*Ambystoma barbouri*)

Department of Biology, University of Iowa Undergraduate Honors Research, Advisor: Dr. Andrew Forbes	2017—2019
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- Investigation of character displacement among host-sharing species in fly genus *Strauzia*

- Investigation of the thermal melanism hypothesis in three temporally isolated *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. Manuscript in preparation.

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

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

SERVICE and OUTREACH

Palouse Discovery Science Center, Pullman, WA 2019—Present

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

Graduate Women's Alliance in Academia, Washington State University 2019—Present

- Provided support for women in academia and helped undergraduate women with the transition into graduate school

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 2015—2019

Fermlab Ecological Restoration Volunteer 2017—2018

Univ. of Iowa Student Garden 2015—2016

LABORATORY and COMPUTATIONAL SKILLS

DNA extraction

Polymerase chain reaction

Population genetics software (e.g., Stacks, fastSTRUCTURE, adegenet, migrate-n)

Geometric morphometric analysis software (e.g., geomorph, tps programs)

Geographic information systems (ArcGIS, QGIS)

PROFESSIONAL MEMBERSHIP

American Society of Naturalists

2020—Present

Society for the Study of Evolution

2018—2019