

## EDUCATION

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

<b>B.S., Biology</b>	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

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

- Population genomics of the Tasmanian devil (*Sarchophilus harrisii*)
- Landscape genomics of the streamside salamander (*Ambystoma barbouri*)

<b>Department of Biology, University of Iowa</b>	2017—2019
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Undergraduate Honors Research, Advisor: Dr. Andrew Forbes

- 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

<b>General Biology (BIO 102), Teaching Assistant</b>	2020
<i>School of Biological Sciences, Washington State University</i>	
<ul style="list-style-type: none"> <li>• Taught 36 students per semester</li> <li>• Led laboratory experiments</li> </ul>	
<b>General Ecology (BIO 372), Teaching Assistant</b>	2019
<i>School of Biological Sciences, Washington State University</i>	
<ul style="list-style-type: none"> <li>• Taught 36 students per semester</li> <li>• Led laboratory and field experiments</li> </ul>	

## 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 14<sup>th</sup> Annual Spring Undergraduate Research Festival. University of Iowa.

## SERVICE and OUTREACH

Palouse Discovery Science Center, Pullman, WA	2019—Present
<ul style="list-style-type: none"> <li>• Designed and led scientific enrichment activities for children ages 3-13yrs</li> </ul>	
Invited research talk, Undergraduate Research Club, Washington State University	2020
<ul style="list-style-type: none"> <li>• Presented doctoral research to promote interest in scientific research</li> </ul>	
Univ. of Iowa Biological Interests Organization	2015—2019
Fermilab 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

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American Society of Naturalists

2020—Present

Society for the Study of Evolution

2018—2019