

# K. BODIE WEEDOP

kbweedop@gmail.com  $\diamond$  bweedop.github.io

## EDUCATION

---

<b>Utah State University</b> B.S. in Biology Overall GPA: 3.83	<b>2014-2017</b>
<b>College of Western Idaho</b> Overall GPA: 4.0	<b>2012-2014</b>
<b>Kuna High School</b> High School Diploma Overall GPA: 3.65	<b>2006-2010</b>

## EXPERIENCE

---

<b>Northeastern University</b> <i>Bioinformatics Research Assistant - Lotterhos Lab</i>	<b>September 2018 - Present</b> <i>Nahant, Massachusetts</i>
<ul style="list-style-type: none"><li>· Genomic data analysis to detect population structure and outliers.</li><li>· Tissue sampling, DNA extractions and Next-generation sequencing.</li></ul>	
<b>Utah State University</b> <i>Research Assistant - Pearse Lab</i>	<b>May 2017 - March 2018</b> <i>Logan, Utah</i>
<ul style="list-style-type: none"><li>· Research and writing performed under the guidance and supervision of Dr. Will Pearse.</li><li>· Wrote and tested DNA alignment program (splinter; <a href="https://github.com/bweedop/splinter">github.com/bweedop/splinter</a>) during undergraduate project (Jan 2017 - April 2017);</li><li>· Written simulation study of the use phylogenetic imputation in conservation biology, focusing on the EDGE of Existence program.</li><li>· Developing R package 'nacdb' (<a href="https://github.com/pearselab/nacdb">github.com/pearselab/nacdb</a>), upgrading and migrating legacy codebase and adding new features.</li></ul>	
<b>Utah State University</b> <i>Lab Technician - National Aquatic Monitoring Center</i>	<b>June 2015 - March 2018</b> <i>Logan, Utah</i>
<ul style="list-style-type: none"><li>· Aquatic macroinvertebrate taxonomy using dichotomous key.</li><li>· Field sampling and experimental plot setup.</li></ul>	
<b>Utah State University</b> <i>Student-Athletic Tutor - Utah State University</i>	<b>September 2014 - June 2015</b> <i>Logan, Utah</i>
<ul style="list-style-type: none"><li>· Tutored collegiate student-athletes in biology, chemistry, and mathematics.</li></ul>	

## PRESENTATIONS

---

<b>Ecological Society of America</b>	<b>August 2018</b>
<b>K. Bodie Weedop</b> , Arne O. Mooers, Caroline M. Tucker, William D. Pearse. The Effect of Phylogenetic Uncertainty and Imputation on EDGE Scores.	

## PUBLICATIONS

---

### Submitted; In Review

**K. Bodie Weedop**, Arne O. Mooers, Caroline M. Tucker, William D. Pearse. The Effect of Phylogenetic Uncertainty and Imputation on EDGE Scores. [biorxiv.org/content/early/2018/07/24/375246](https://www.biorxiv.org/content/early/2018/07/24/375246)

## AWARDS

---

<b>Gene and Ruth Miller Scholarship</b>	<b>2016</b>
Award based on outstanding scholarship and ecological research promise.	
<b>College of Science Scholarship</b>	<b>2016</b>
Award based on outstanding scholarship.	
<b>Presidents Scholarship</b>	<b>2014</b>
Academic scholarship awarded to those with a 4.0 GPA.	

## TECHNICAL STRENGTHS

---

<b>Languages</b>	Python, R, HTML/CSS/Javascript
<b>Statistical Analysis</b>	Bayesian analysis, machine learning and deep learning algorithms
<b>Databases</b>	SQLite and MySQL
<b>Molecular Biology</b>	BioPython, DNA/RNA isolation, PCR, gel electrophoresis, cell/tissue culture