

# Joseph A. Kleinkopf

Alpine Plant Ecology and Evolution

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## Education

### University of New Mexico

Ph.D., Plant Biology  
Advisor: Dr. Hannah Marx

Albuquerque, NM

Aug 2021 - Current

### Boston Teacher Residency - Umass-Boston

M.Ed., Secondary Science Education  
Supervisor: Bill Madden-Fuoco  
Mentor: Tim DiMario

Boston, MA

Jul 2018 - Aug 2019

### Washington State University

M.S., Plant Biology  
Advisor: Dr. Eric Roalson  
Thesis: *Detecting Hybridization in Hawaiian Cyrtandra using Genome-Wide Data*

Pullman, WA

Aug 2016 - May 2018

### University of Colorado

B.A., MCDB (Molecular, Cellular, and Developmental Biology) and Japanese  
Mentor: Dr. Erin Tripp  
Research Project: *Aberrant Plant Diversity in the Purgatory Watershed of Southeastern Colorado and Northeastern New Mexico*

Boulder, CO

Aug 2011 - May 2015

## Science Experience

### NSF Museum Research Training Program, University of New Mexico

Museum Research Traineeship Fellow

Albuquerque, NM

Aug 2021 - Current

### Hudson Biological Reserve, Washington State University

Graduate Research Assistant

Pullman, WA

May 2017 - Aug 2017

### Tripp Lab, University of Colorado

Undergraduate Lab Assistant

Boulder, CO

Aug 2014 - May 2016

### Museum of Natural History, University of Colorado

Herbarium Student Assistant

Boulder, CO

Aug 2014 - May 2015

## Publications and Presentations

### Publications

2. **Kleinkopf, J.A.**, W.R. Roberts, W.H. Wagner, E.H. Roalson. 2019. *Diversification of Hawaiian Cyrtandra (Gesneriaceae) under the influence of incomplete lineage sorting and hybridization*. Journal of Systematics and Evolution. 57(6). DOI: 10.1111/jse.12519
1. **Kleinkopf, J.A.**, D.A. Clark, and E.A. Tripp. 2017. *Aberrant Plant Diversity in the Purgatory Watershed of Southeastern Colorado and Northeastern New Mexico*. Western North American Naturalist. 77(3). DOI: 10.3398/064.077.0307

## Presentations

3. Detecting Hybridization in Hawaiian Cyrtandra using Genome-Wide Data. Poster presented at Washington State University Academic Showcase. Pullman, WA. March 2018.
2. Detecting Hybridization in Hawaiian Cyrtandra using Genome-Wide Data. Poster presented at Washington State University Biology Graduate Student Symposium. Moscow, ID. March 2018.
1. Detecting Hybridization in Hawaiian Cyrtandra using Genome-Wide Data. Oral Seminar Presentation at BioLunch, School of Biological Sciences, Washington State University. Pullman, WA. April 2018.

## Teaching Experience

### Salish Middle School, North Thurston Public Schools

Lacey, WA

6<sup>th</sup> Grade Earth and Space Science Teacher

Sep 2019 - Aug 2021

- Co-head of Equity Committee - 2020-2021
- Use and create curriculum and resources to teach earth and space sciences to 6th grade students.
- Design lessons with co-teacher and actively participate in grade level team meetings and professional development meetings.
- Evaluate academic and socio-emotional student progress through trackers and dialogue with students and parents.'

### Dearborn STEM Academy, Boston Public Schools

Boston, MA

10<sup>th</sup>-12<sup>th</sup> Grade Biology Resident - BTR

Sep 2018 - Jun 2019

- Collaborate with mentor teacher to design 10<sup>th</sup> grade biology units and lesson plans that align with Next-Generation Science Standards (NGSS) and MA science standards.
- Differentiate lessons for English Learners in Sheltered English Immersion classes and students with Individualized Education Plans.
- Design and evaluate assessments to measure student learning over the course of a lesson, week, or unit.
- Actively collaborate and participate in professional development with the DSA faculty and staff.

### School of Biological Sciences, Washington State University

Pullman, WA

Graduate Teaching Assistant - General Biology (BIOL 102) Lab

Aug 2016 - May 2018

- Designed and evaluated quizzes that assessed key points of each lab and provided feedback on student work.
- Worked with students during labs and office hours to help improve their understanding and written communication of biology.
- Communicated with lead instructor and lab coordinators to ensure students received high quality education.

### Science Discovery, University of Colorado

Boulder, CO

Undergraduate Teaching Assistant

May 2013 - Aug 2013

- Assisted graduate students with teaching and classroom management of summer courses for K-12 students.
- Worked with students of all ages in math, chemistry, physics, biology, and anatomy courses.

## Skills

- **Digital Tech:** Blackboard, Canvas, Aspen, Skyward, Google Classroom, Zoom, Google Meet
- **Lab:** DNA extraction, gel electrophoresis, PCR, sanger sequencing, library preparation, sequence capture, high-throughput sequencing
- **Field :** Native plant identification, botanical collection, herbarium cataloging
- **Programming:** R, Python, Bash, Git
- **Languages:** English (native), Japanese (conversational proficiency)

## Recognition

2021	<b>NSF UNM Museum Research Traineeship</b> , University of New Mexico, Albuquerque, NM
2017	<b>Higinbotham Travel Grant (\$3652)</b> , Washington State University, Pullman, WA
2015	<b>EBIO Undergraduate Scientist Feature</b> , University of Colorado, Boulder CO
2014	<b>Phi Beta Kappa Honors Society</b> , University of Colorado, Boulder CO

## References

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- **Dr. Hannah Marx**  
hmarx [at] unm.edu  
Assistant Professor, Herbarium Curator at the Museum of Southwestern Biology  
University of New Mexico, Albuquerque, NM
- **Dr. Eric Roalson**  
509-335-7921 | eric\_roalson [at] wsu.edu  
Professor, Director of Marion Ownbey Herbarium  
Washington State University, Pullman, WA
- **Dr. Warren Wagner**  
wagnerw [at] si.edu  
Research Botanist and Curator of Botany  
Smithsonian Institute, Washington, D.C.
- **Dixie Reimer**  
362-412-4590 ext. 47124 | dreimer [at] nthurston.k12.wa.us  
Secondary Science Instructional Specialist  
North Thurston Public Schools, Lacey, WA
- **Ivelisse Santos-Rodriguez**  
617-708-6716 | isantosrodriguez [at] bostonpublicschools.org  
Science Content Methods Instructor, Boston Teacher Residency Coach and Mentor  
Boston Public Schools, Boston, MA