

# Rebekah Mohn

Plant and Microbial Biology Department  
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St. Paul, MN 55108

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## EDUCATION

Plant and Microbial Biology Ph.D. Program, University of Minnesota (UMN), St. Paul. 2017-Current  
Bachelors of Science, Botany, Miami University (MU), Oxford, OH. May 2017

## FELLOWSHIPS, GRANTS, and AWARDS

### *Fellowships*

Fulbright Future Scholarship, Fulbright Commission, Australia. (\$27,000) 2020  
Dayton Fellowship, Bell Natural History Museum, UMN. (\$56,000) 2018-2019  
Charles P. Sigerfoos Graduate Fellowship, Ecology, Evolution, and Behavior, UMN. (\$4,000) 2018  
PBS Recruitment Fellowship, Plant Biological Sciences, UMN. (\$3,000) 2017

### *Grants*

Zoological Society Fund, Bell Natural History Museum, UMN. (\$2,500) 2018  
2018 J.S. Karling Graduate Student Research Award, Botanical Society of America. (\$1,000) 2018

### *Awards*

Triarch Botanical Photos Award, 1st Place, Botanical Society of America. (\$500) 2018  
Award for Achievement in Botany, Miami University. (\$5,000) 2017  
Young Botanist of the Year Award, Botanical Society of America. 2017

## RESEARCH INTERESTS

The use of phylogenomics to understand patterns of plant diversity; the systematic classification of plants; the impact of chromosome evolution on species evolution; the regulation of centromeres and their impact on chromosome evolution.

## PUBLICATIONS

**Mohn, R.**, Oleas, N., Smith, A., Swift, J., Yatskievych, G., Edwards, C. (Submitted). The Phylogeographic history of a range disjunction in Eastern North America: the role of post-glacial expansion into newly suitable habitat.

Li, M., An, H., Angelovici, R., Bagaza, C., Batushansky, A., Clark, L., Coneva, V., Donoghue, M., Edwards, E., Fajardo, D., Fang, H., Frank, M., Gallaher, T., Gebken, S., Hill, T., Jansky, S., Kaur, B., Klahs, P., Klein, L., Kuraparthi, V., Londo, J., Migicovsky, Z., Miller, A., **Mohn, R.**, Myles, M., Otoni, W., Pires, J.C., Riffer, E., Schmerler, S., Spriggs, E., Topp, C., Deynze, A.V., Zhang, K., Zhu, L., Zink, B.M., Chitwood, D. H. 2018. Topological Data Analysis as a Morphometric Method: Using Persistent Homology to Demarcate a Leaf Morphospace. *Frontiers in Plant Sciences* 9:553. doi: 10.3389/fpls.2018.00553

## PROFESSIONAL PRESENTATIONS

### **Oral Presentations**

**Mohn, R.A.** Evolution of Chromosome in Sundews (*Drosera*, Droseraceae). Fall 2019 Plant and Microbial Biology Colloquium Series. University of Minnesota. St. Paul, Minnesota, United States.

**Mohn, R.A.**, Smith, S., Yang, Y. Niche and Chromosome Evolution in the Sundews (*Drosera*, Droseraceae). Botany 2018. Rochester, Minnesota, United States.

**Mohn, R.A.**, Li, M., Hill, T., Jansky, S., van der Knapp, E., Chitwood, D., A morphological comparison of leaf, fruit, and tuber shape in recombinant pepper (*Capsicum annuum*) and potato (*Solanum tuberosum*) lines using persistent homology. Donald Danforth Plant Science Center REU 2016 Symposium. St. Louis, Missouri, United States.

**Mohn, R.A.**, Yatskievych, G.A., Swift, J., Edwards, C.E., Quantifying levels of genetic divergence among geographically isolated populations of *Delphinium exaltatum* (Ranunculaceae). Missouri Botanical Garden REU 2015 Symposium. St. Louis, Missouri, United States.

### **Poster Presentations**

**Mohn, R.A.**, Zenil-Ferguson, R., Yang, Y. Chromosome evolution in the carnivorous plants sundews (*Drosera*, Droseraceae). Evolution 2019. Providence, Rhode Island, United States.

**Mohn, R.A.**, Yatskievych, G.A., Swift, J., Edwards, C.E., A population genetic analysis to test the cause of disjunction between the Ozarks and Appalachians in tall larkspur (*Delphinium exaltatum*). Botany 2016. Savannah, Georgia, United States.

**Mohn, R.A.**, Yatskievych, G.A., Swift, J., Edwards, C.E., Quantifying levels of genetic divergence among geographically isolated populations of *Delphinium exaltatum* (Ranunculaceae). Missouri Botanical Garden REU 2015 Symposium. St. Louis, Missouri, United States.

## **PROFESSIONAL EXPERIENCE**

### **Research Experience**

Graduate Research on Genome Evolution of <i>Drosera</i> , Droseraceae, Ya Yang. UMN.	2017-Present
Graduate Rotation on Selfing and Self-Compatibility, David Moeller. UMN.	Fall 2017
LRRK Mutant: A Model for Parkinson's Disease, Yoshi Tomoyasu. MU.	Spring 2017
REU, Plant Morphometrics. Daniel Chitwood. Donald Danforth Plant Science Center.	Summer 2016
REU, <i>Delphinium</i> Population Genetics. Christy Edwards. Missouri Botanical Garden.	Summer 2015
Independent Research on <i>Erythronium albidum</i> , Michael Vincent. MU.	2014-2015

### **Specimen Curation**

Herbarium Assistant, Willard Sherman Turrell Herbarium, Miami University.	2013-2014
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### **Field Experience**

Minnesota, USA (3 days). <i>Drosera</i> transcriptomics.	2019
Costa Rica (4 weeks). Tropical Plant Systematics course, Organization of Tropical Studies.	2018
New Jersey, Virginia, Idaho, and Montana, USA (2.5 weeks). <i>Drosera</i> Transcriptomics.	2018
Eleuthera, Bahamas (1.5 weeks). Flora of Bahamas and Workshop.	2017
Missouri, USA (1 day). <i>Delphinium exaltatum</i> populations monitoring.	2015
Ohio, USA (1 day). <i>Delphinium exaltatum</i> sampling for population genetics.	2015
Missouri and Ohio, USA (1 week). <i>Erythronium albidum</i> and <i>E. mesocoreum</i> sampling.	2015
Missouri, USA (3 years). <i>Flora of Missouri</i> Voucher Collections	2012-2015

### ***Teaching Experience***

Undergraduate Teaching Assistant, Plant Taxonomy (Bio 302). Michael Vincent. MU. Fall 2016

### **UNIVERSITY/COMMUNITY/PUBLIC SERVICE**

Research Presenter, Bell Museum Advisory Board Meeting, UMN. 2019  
Visiting Scientist, Potions and Magic Summer Camps, Bell Natural History Museum 2018-2019  
Phytograds Treasurer, Phytograds Graduate Student Org., UMN. 2018-2019  
Outreach Leader, Plant Protection, Nokomis Farmer's Market, Market Science 2018  
Science Outreach Volunteer, Minneapolis Public School's STEM Expo 2018, Market Science 2018  
Incoming Student Mentor, Plant and Microbial Biology, UMN. 2018

### **PROFESSIONAL AFFILIATIONS**

American Society of Plant Taxonomists (ASPT)  
Botanical Society of America  
Society of Systematic Biologists  
Phi Beta Kappa (Honors Society)

### **ART AWARDS AND EXHIBITIONS**

"*Linnaea borealis*", ASPT t-shirt design contest winner, ASPT. 2018  
"Binary", Pervasive Technology, CSE Art Purchase Award, Comp. Sci. & Eng., MU. 2017-2018  
"Our Soil", Student Response Exhibition (SRE): Conflict and Resolution. MU Art Museum. 2017  
"Commitment to Freedom", SRE: Conflict and Resolution. MU Art Museum. 2017  
"Marked Outcasts", SRE: Freedom Summer. MU Art Museum. 2015