

## Postdoctoral Research

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Missouri Botanical Garden (CCSD), St. Louis, MO  
Postdoctoral Fellow – Restoration Ecology 2020- Present

## Education

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Iowa State University, Ames, IA Ph.D., 2020  
Ecology and Evolutionary Biology

St. Olaf College, Northfield, MN B.A., 2013  
Major: Biology; Concentration: Environmental Studies

## Honors

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Teaching Excellence Award, Iowa State University – Graduate College 2018  
College of Liberal Arts and Sciences Graduate Fellowship, Iowa State University 2014 – 2015  
Distinction in the study biology awarded with graduation, St. Olaf College 2013

## Publications

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1. Wilsey, B.J., Martin, L.M., and **A.D. Kaul**. 2018. Phenology differences between native and novel exotic-dominated grasslands rival the effects of climate change. *Journal of Applied Ecology* 55:863–873. <https://doi.org/10.1111/1365-2664.12971>
2. **Kaul, A.D.**, and B.J. Wilsey. 2019. Monarch butterfly host plant (milkweed *Asclepias spp.*) abundance varies by habitat type across 98 prairies. *Restoration Ecology* 27:1274-1281. <https://doi.org/10.1111/rec.12993>
3. Page, M.L., Ison, J.L., Bewley, A., Holsinger, K., **Kaul, A.D.**, Koch, K., Kolis, K., and Wagenius, S. 2019. Pollinator Effectiveness in a composite: a specialist bee pollinates more florets but does not move pollen farther than other visitors. *American Journal of Botany* 106:1487-1498. <https://doi.org/10.1002/ajb2.1383>
4. **Kaul, A.D.**, and B.J. Wilsey. Exotic species drive patterns of plant species diversity in 93 restored tallgrass prairies. *Ecological Applications*. In Press.

### In Review

5. **Kaul, A.D.** Defining urban meadows: a model system for urban and restoration ecology. In revision (*Restoration Ecology*)
6. Clark, L.G., and **A.D. Kaul**. *Chusquea montisylvicola* (Poaceae: Bambusoideae: Bambuseae), a new species endemic to the Andes of southern Ecuador. In review (*Journal of the American Bamboo Society*)

### In Preparation

7. **Kaul, A.D.**, and B.J. Wilsey. Cover crop species alter grassland community assembly through niche modification.

## Posters and Presentations

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Selected Poster and Oral Presentations (presenter in bold)

1. **A. Kaul** and B. Wilsey. Exotic abundance is the best predictor of plant diversity in restored tallgrass prairies. Oral presentation at: Ecological Society of America, New Orleans, LA, August 7, 2018.
2. **A. Kaul** and B. Wilsey. Predictors of milkweed abundance in Iowa prairie plantings. Oral presentation at: Iowa Chapter of The Wildlife Society Winter meeting, Ames, IA, February 8, 2018.
3. **A. Kaul**, and B. Wilsey. Retrospective assessment of prairie restoration success. Oral Presentation at: 31<sup>st</sup> Annual Iowa Integrated Roadside Vegetation Management Conference, Marshalltown Iowa, September 29, 2017.
4. B. Wilsey, **A. Kaul**, and L. Martin. Phenology differences between native and novel ecosystems exceed the effects of climate change. Oral presentation at: Ecological Society of America, Fort Lauderdale, FL, August 11, 2016.
5. S. Kannenberg, R. Wieme, **A. Kaul**, C. Oviedo, and K. Shea. Productivity and soil characteristic patterns in a restored tallgrass prairie chronosequence. Poster presented at: Minnesota Academy of Science Winchell Undergraduate Research Symposium 2013, Minneapolis, MN, April 13, 2013.
6. **A. Kaul**, and S. Wagenius. Pollinating bees of *Echinacea angustifolia*: who gets the job done?. Oral presentation and poster presented at: Chicago Botanic Garden REU poster symposium 2012, Glencoe, IL, July 20, 2012.
  - a. Received award for “Best Oral Presentation” at symposium of 12 REU research students
7. **A. Kaul**, and S. Wagenius. Pollinating bees of *Echinacea angustifolia*: who gets the job done?. Poster presented at: University of Minnesota Summer Undergraduate Research Symposium 2012, St. Paul, MN, August 9, 2012.
8. **A. Kaul**, C. Oviedo, S. Kannenberg, R. Wieme, and K. Shea. Growth patterns and soil characteristics of a restored conifer forest after 18 Years. Poster presented at: St. Olaf College Summer Research Symposium, Northfield, MN, August 5, 2011.

#### Panels

1. Confessions from Graduate Students: Advice from Graduate Students about Navigating and Surviving Graduate School. Ecological Society of America, New Orleans, LA, August 9, 2018.
2. Oh, the Places You’ll Go: A Workshop for Undergraduate Students Interested in Attending Graduate School. Ecological Society of America, Fort Lauderdale, FL, August 9, 2016.

#### Local Presentations

1. **A. Kaul** and B. Wilsey. Retrospective assessment of prairie restoration success. Oral presentation at: 25<sup>th</sup> Annual Graduate Research in Ecology and Evolutionary Biology Symposium. Iowa State University. Ames IA, February 3, 2018.
2. **A. Kaul**. Plant Community Assembly and Tallgrass Prairie Restoration. Invited Oral Presentation at: Iowa State University Biological Sciences Club Seminar Series. Ames IA, November 8, 2017.

## Grants

#### Received

Iowa Department of Transportation 90-00-LR16-216 (Co-PI) (\$15,720)	2016
Iowa Department of Transportation 90-00-LR15-113 (Co-PI) (\$15,899)	2015
Prairie Biotic Research – small grants program (PI) (\$1,000)	

#### Internal Funding

ISU EEOB Finch Fund Award – (\$2,700; 2018) (\$1,000; 2017), (\$1,500; 2016), (\$2,500; 2015)	2015
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#### Applied

NSF Graduate Research Fellowship Program	2014, 2015
Iowa Native Plant Society Grant	2015, 2016

## Institutional Leadership and Service – Iowa State University

#### Department of Ecology Evolution and Organismal Biology (EEOB)

EEOB Honors and Awards Committee	2017 – 2019
EEOB Graduate Studies Committee	2015 – 2016
EEOB Biology Graduate Student Org (GSO) – Member	2014 – Present
Graduate and Professional Student Senate (GPSS) – Senator	2016 – 2017

Graduate Student Mentor: Emily Ernst, Tyler Butts	2015 – Present
<b>Ecology and Evolutionary Biology Graduate Program (EEB)</b>	
Ecology and Evolutionary Biology (EEB) Graduate Program Supervisory Committee	2017 – 2019
Graduate Research in Evolutionary Biology and Ecology (GREBE) – Member	2014 – Present
President	2015 – 2016
Vice President	2016 – 2017
<b>Graduate College</b>	
McNair Scholars Program – Graduate Student Mentor	2018 – Present

## ***Service and Professional Development***

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### **Societies**

Ecological Society of America	2015 – Present
ESA Student section liaison to Plant Population Ecology section	2016 – 2018
Iowa Prairie Network	2015 – Present
American Society of Naturalists	2018 – Present
Botanical Society of America	2018 – Present
Society for Ecological Restoration	2018 – Present

### **Peer Review**

- Perspectives in Plant Ecology, Evolution, and Systematics
- Plant Ecology
- Restoration Ecology
- Torrey Botanical Society

### **Professional Development**

Preparing Future Faculty – PFF associate certificate	Spring 2019
Center for Integrated Teaching and Learning (CIRTL) – associate certificate	Spring 2019
Reiman Gardens – Science Communication Fellowship	2019
Wakonse Fellowship – ISU Graduate and Professional Student Senate	2019

## ***Teaching Experience – Iowa State University***

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Ecology	Laboratory Teaching Assistant	2016, 2017, 2018, 2019
Plant Systematics	Laboratory Teaching Assistant	2017, 2018, 2019, 2020
Seminar – Discussions in Ecology and Evolution Research		5x (2017-2020)
Co-developed course and Co-Instructed with fellow grad student Erica Baken		
Principles of Biology I	Instructor of Record	Summer 2017
Principles of Biology I	Laboratory Teaching Assistant	Fall 2015

## ***Pre-Graduate Work Experience***

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<b>Conservation and Land Management Intern,</b> Chicago Botanic Garden, Glencoe IL	Jun 2013 – Nov 2013
Interned with the Bureau of Land Management botanist in Richfield UT	
<b>Student Naturalist,</b> Department of Biology, St. Olaf College	2012 – 2013
<b>Student Editor,</b> BioMass (Biology department newsletter), St. Olaf College	2012 – 2013
<b>REU Intern,</b> Chicago Botanic Garden, Glencoe IL	Summer 2012
<i>Echinacea angustifolia</i> pollination biology with Stuart Wagenius	
<b>Research Student,</b> CURI, St. Olaf College	Summer 2011
Conifer and Tallgrass prairie restoration ecology with Kathleen Shea	