

# Carolyn J. Ferguson

## Curriculum Vitae

Division of Biology  
Ackert Hall 313  
Kansas State University  
Manhattan, KS 66506-4901

office phone: 785-532-3166  
Herbarium phone: 785-532-6619  
email: ferg@ksu.edu  
Skype: ferg54321

### Professional preparation

|                                       |                      |                    |
|---------------------------------------|----------------------|--------------------|
| Carleton College (Northfield, MN)     | Biology              | B.A. 1990          |
| University of Texas (Austin, TX)      | Botany               | Ph.D. 1998         |
| Washington University (St. Louis, MO) | Evolutionary Biology | Post doc 1998-2000 |

### Positions held

2015-present. Professor and Curator of the Herbarium. Division of Biology, Kansas State University, Manhattan, Kansas.  
2007-present. Associate Professor and Curator of the Herbarium. Division of Biology, Kansas State University, Manhattan, Kansas.  
2000-2007. Assistant Professor and Curator of the Herbarium. Division of Biology, Kansas State University, Manhattan, Kansas.  
1998-2000. NSF/Alfred P. Sloan Foundation Postdoctoral Fellow in Molecular Evolution. Department of Biology, Washington University, St. Louis, Missouri. Postdoctoral sponsor: Barbara A. Schaal.  
1993-1998. Graduate Teaching Assistant. Departments of Botany and Biology, University of Texas, Austin, Texas. Graduate adviser: Robert K. Jansen.  
1991-1993. U.S. Peace Corps Volunteer. Conservation of Natural Resources Program, Guatemala, Central America.

### Research interests

Plant systematics and evolution (phylogenetics, taxonomy), the plant genus *Phlox* (Polemoniaceae), biological research collections, science education

### Publications (^ indicates graduate student; \* indicates undergraduate)

Chansler<sup>^</sup>, M. T., C. J. Ferguson, S. D. Fehlberg and L. A. Prather. 2016. The role of polyploidy in shaping morphological diversity in natural populations of *Phlox amabilis*. *American Journal of Botany* 103: 1546-1558.  
Wright<sup>^</sup>, B. A., L. A. Prather and C. J. Ferguson. 2016. Polyploidy in *Phlox nana* (Polemoniaceae): diversity and distribution of cytotypes across a desert sky island region of North America. *Journal of the Botanical Research Institute of Texas* 10: 45-63.  
Ferguson, C. J., M. E. Darrach and M. H. Mayfield. 2015. *Phlox solivagus* (Polemoniaceae), a new species from the Blue Mountains in southeastern Washington. *Phytoneuron* 2015-25: 1-12.  
Majetic, C. J., S. D. Wiggam<sup>^</sup>, C. J. Ferguson and R. A. Raguso. 2015. Timing is everything: temporal variation in floral scent, and its connections to pollinator behavior and female reproductive success in *Phlox divaricata*. *American Midland Naturalist* 173: 191-207.

- Nepal, M. P., C. J. Ferguson and M. H. Mayfield. 2015. Breeding system and sex ratio variation in mulberries (*Morus*, Moraceae). *Journal of the Botanical Research Institute of Texas* 9: 383-395.
- Beck, J. B., C. J. Ferguson, M. H. Mayfield and J. Shaw. 2014. Reduced population genetic variation in black cherry (*Prunus serotina* subsp. *serotina*, Rosaceae) at its western range limit in Kansas. *Northeastern Naturalist* 21: 472-478.
- Fehlberg, S. D., M. C. Ty\* and C. J. Ferguson. 2014. Reexamination of a putative diploid hybrid taxon using genetic evidence: the distinctiveness of *Phlox pilosa* subsp. *deamii* (Polemoniaceae). *International Journal of Plant Sciences* 175: 781-793.
- Peirson, J. A., R. Riina, M. H. Mayfield, C. J. Ferguson, L. E. Urbatsch and P. E. Berry. 2014. Phylogeny and taxonomy of the New World leafy spurges, *Euphorbia* section *Tithymalus* (Euphorbiaceae). *Botanical Journal of the Linnean Society* 175: 191-228.
- Ferguson, C. J. Polemoniaceae. 2013. Pp. 686-701 *In* G. Yatskievych, ed. *Steyermark's Flora of Missouri, Vol. 3*. Missouri Botanical Garden Press, St. Louis, MO.
- Fehlberg, S. D. and C. J. Ferguson. 2012. Intraspecific cytotypic variation and complicated genetic structure in the *Phlox amabilis*-*P. woodhousei* (Polemoniaceae) complex. *American Journal of Botany* 99: 865-874.
- Fehlberg, S. D. and C. J. Ferguson. 2012. Intraspecific cytotype variation and conservation: an example from *Phlox* (Polemoniaceae). *Calochortiana* 1: 189-195.
- Ferguson, C. J., S. C. Strakosh^ and R. Patterson. 2012. *Phlox*. Pp. 1068-1071 *In* B. G. Baldwin, D. H. Goldman, D. J. Keil, R. Patterson, T. J. Rosatti, and D. H. Wilken, eds. *The Jepson Manual: Vascular Plants of California, Second Edition*. University of California Press, Berkeley, CA.
- Nepal^, M. P. and C. J. Ferguson. 2012. Phylogenetics of *Morus* (Moraceae) inferred from ITS and *trnL-trnF* sequence data. *Systematic Botany* 37: 442-450.
- Nepal^, M. P., M. H. Mayfield and C. J. Ferguson. 2012. Identification of eastern North American *Morus* (Moraceae): taxonomic status of *M. murrayana*. *Phytoneuron* 2012-6: 1-6.
- Patterson, R. and C. J. Ferguson. 2012. *Microsteris*. P. 1062 *In* B. G. Baldwin, D. H. Goldman, D. J. Keil, R. Patterson, T. J. Rosatti, and D. H. Wilken, eds. *The Jepson Manual: Vascular Plants of California, Second Edition*. University of California Press, Berkeley, CA.
- Woods^, T. M., J. L. Jonas and C. J. Ferguson. 2012. The invasive *Lespedeza cuneata* attracts more insect pollinators than native congeners in tallgrass prairie with variable impacts. *Biological Invasions* 14: 1045-1059.
- Worcester\*, L., M. H. Mayfield and C. J. Ferguson. 2012. Cytotypic variation in *Phlox pilosa* ssp. *pilosa* (Polemoniaceae) at the edge of its range in the central United States. *Journal of the Botanical Research Institute of Texas* 6: 443-451.
- McLauchlan, K. K., C. J. Ferguson, I. E. Wilson\*, T. W. Ocheltree and J. M. Craine. 2010. Thirteen decades of foliar isotopes indicate declining nitrogen availability in central North American grasslands. *New Phytologist* 187: 1135-1145.
- Floden\*, A. J., M. H. Mayfield and C. J. Ferguson. 2009. A new narrowly endemic species of *Dirca* (Thymelaeaceae) from Kansas and Arkansas, with a phylogenetic overview and taxonomic synopsis of the genus. *Journal of the Botanical Research Institute of Texas* 3: 485-499.

- Woods<sup>^</sup>, T. M., D. C. Hartnett and C. J. Ferguson. 2009. High propagule production and reproductive fitness homeostasis contribute to the invasiveness of *Lespedeza cuneata* (Fabaceae). *Biological Invasions* 11: 1913-1927.
- Fehlberg, S. D., K. A. Ford\*, M. C. Ungerer and C. J. Ferguson. 2008. Development, characterization and transferability of microsatellite markers for the plant genus *Phlox* (Polemoniaceae). *Molecular Ecology Resources* 8: 116-118.
- Ferguson, C. J., S. D. Fehlberg, K. A. Ford\* and S. C. Strakosh<sup>^</sup>. 2008. Phylogenetic relationships of the genus *Phlox* (Polemoniaceae): comparing and combining data sets from the chloroplast genome. Pp. 153-172 In A. K. Sharma and A. Sharma, eds. *Plant Genome: Biodiversity and Evolution, Volume 1, Part E*. Science Publishers, Enfield, NH.
- Vinasco, J., O. Li, A. Alvarado, D. Diaz, L. Hoyos, L. Tabachi, K. Sirigireddy, C. J. Ferguson and M. H. Moro. 2007. Molecular evidence of a new strain of *Ehrlichia canis* from South America. *Journal of Clinical Microbiology* 45: 2716-1719.
- Kula<sup>^</sup>, R. R., G. Zolnerowich and C. J. Ferguson. 2006. Phylogenetic analysis of *Chaenusa sensu lato* (Hymenoptera: Braconidae) using mitochondrial NADH 1 dehydrogenase gene sequences. *Journal of Hymenoptera Research* 15: 251-265.
- Strakosh<sup>^</sup>, S. C. and C. J. Ferguson. 2005. Pollination biology of four southwestern *Phlox* (Polemoniaceae) species: insect visitation in relation to corolla tube length. *The Southwestern Naturalist* 50: 291-301.
- Wiggam<sup>^</sup>, S. D. and C. J. Ferguson. 2005. Pollinator importance and temporal variation in a population of *Phlox divaricata* L. (Polemoniaceae). *American Midland Naturalist* 154: 42-54.
- Woods<sup>^</sup>, T. M., S. C. Strakosh<sup>^</sup>, M. P. Nepal<sup>^</sup>, S. Chakrabarti<sup>^</sup>, N. B. Simpson<sup>^</sup>, M. H. Mayfield and C. J. Ferguson. 2005. Introduced species in Kansas: floristic changes and patterns of collection based on an historical herbarium. *Sida* 21: 1695-1725.
- Prather, L. A., O. Alvarez-Fuentes<sup>^</sup>, M. H. Mayfield and C. J. Ferguson. 2004. The decline of plant collecting in the United States: a threat to the infrastructure of biodiversity studies. *Systematic Botany* 29: 15-28.
- Prather, L. A., O. Alvarez-Fuentes<sup>^</sup>, M. H. Mayfield and C. J. Ferguson. 2004. Commentary: implications of the decline in plant collecting for systematic and floristic research. *Systematic Botany* 29: 216-220.
- Ferguson, C. J. and R. K. Jansen. 2002. A chloroplast DNA restriction site study of eastern North American *Phlox* (Polemoniaceae): implications of congruence and incongruence with the ITS phylogeny. *American Journal of Botany* 89: 1324-1335.
- Prather, L. A., C. J. Ferguson and R. K. Jansen. 2000. Polemoniaceae phylogeny and classification: implications of sequence data from the chloroplast gene *ndhF*. *American Journal of Botany* 87: 1300-1308.
- Ferguson, C. J., F. Krämer\* and R. K. Jansen. 1999. Relationships of eastern North American *Phlox* (Polemoniaceae) based on ITS sequence data. *Systematic Botany* 24: 616-631.
- Ferguson, C. J., D. A. Levin and R. K. Jansen. 1999. Natural hybridization between an outcrossing and a selfing *Phlox* (Polemoniaceae): the maternal species of F<sub>1</sub> hybrids. *Plant Systematics and Evolution* 218: 153-158.
- Ferguson, C. J., S. C. Huber, P. H. Hong and S. R. Singer. 1991. Determination for inflorescence development is a stable state, separable from determination for flower development in *Pisum sativum* L. buds. *Planta* 185: 518-522.

## Funding support

### ***Current, PI or Co-PI***

Ferguson, C. J., S. D. Fehlberg (Desert Botanical Garden) and L. A. Prather (Michigan State University). “Collaborative Research: Polyploidy in *Phlox* and its effects on diversity,” NSF Systematics and Biodiversity Science program (Phylogenetic Systematics), DEB-1258167/1258067/1258005, 04/15/13-03/31/17 (with a one-year, no-cost extension, and one REU supplement), \$780,114 (**\$352,250**, KSU portion).

Ferguson, C. J. and M. H. Mayfield. “Plant biodiversity studies using herbarium, field and laboratory-based approaches,” KSU Agricultural Experiment Station and Cooperative Extension Service Hatch Project KS496, 10/01/13-09/30/18, funds variable.

### ***Previous, PI or Co-PI (≥10K)***

Ferguson, C. J. and E. A. Maatta. “2014-2015 EIDRoP Collaborative with USD 475,” part of U.S. Department of Defense Education Activity Grant “Steam into STEM” to USD 475, 08/01/14-07/31/15, **\$100,000**.

Scharmann, L. C., C. T. Culbertson (final PI), C. J. Ferguson, I. M. Totten and N. S. Rebello (final PIs: CTC, CJF, NSR and M. Brueseke). “K-State Teach Program,” NSF Robert Noyce Teacher Scholarship program, DUE-0934905, 06/15/09-05/31/15 (with a one-year, no-cost extension), **\$875,359**.

Ferguson, C. J., T. Bolton, S. Kambhampati, I. M. Totten and N. S. Rebello (final PIs: CJF, TB, NSR, E. Maatta and S. Tanona). “Evidence-based inquiry into the distant, remote, or past (EIDRoP): linking evidence to inference in the Kansas science classroom,” NSF Graduate STEM Fellows in GK-12 Education (GK-12) program, DGE-0841414, 04/15/09-03/31/15 (with a one-year, no-cost extension), **\$2,768,351** (including one international supplement).

Zolnerowich, G., C. J. Ferguson, D. B. Allen and M. Haddock. “The K-State digital prairie plant and insect collection: elevating biodiversity and bioinformatics to the next level,” KSU Office of the Provost “Targeted Excellence” program, 07/01/07-06/30/12 (with no-cost extension), **\$800,000**.

Ferguson, C. J. and S. D. Fehlberg. “Applying genomic tools within the *Phlox* family: evolutionary history and ecological significance of polyploidy in the *Phlox woodhousei* complex in the arid southwest,” KSU Ecological Genomics Institute seed grant program, 05/01/08-04/30/10, **\$75,000**.

Ferguson, C. J. and M. H. Mayfield. “Computerization of the Kansas State University Herbarium: digitizing a critical biodiversity collection for the Great Plains,” NSF Biological Research Collections program, DBI-0544980, 05/01/06-04/30/10 (with a one-year, no-cost extension), **\$398,674** (including one RET supplement).

Bolton, T., C. J. Ferguson, B. Glymour, M. Hubbard, S. Kambhampati and M. Sabates (original PIs; later also including A. Joern). “Center for the Understanding of Origins: A Targeted Excellence proposal for Kansas State University,” KSU Office of the Provost, “Targeted Excellence” program, 07/01/04-6/30/09, **\$585,000**.

Ferguson, C. J. and R. Patterson. “Systematics and geographic relations of *Phlox* L. (Polemoniaceae),” NSF Systematic Biology program, DEB-0089656, 04/01/01-03/31/05 (with a one-year, no-cost extension), **\$268,306** (including one REU supplement).

Ferguson, C. J. “Using gene genealogies to assess effects of hybridization between species of *Phlox* plants in the Ozarks,” NSF/Alfred P. Sloan Foundation Postdoctoral Research

Fellowship in Molecular Evolution program, DBI-9803898, 09/01/1998-08/31/00, **\$80,000**.

Jansen, R. K. (graduate adviser for C. J. Ferguson). “Dissertation Research: Phylogenetic implications of hybridization in the *Phlox pilosa* complex (Polemoniaceae): diploid hybrid origin of taxa,” NSF Doctoral Dissertation Improvement award, DEB-9623386, 06/15/96-05/31/98, **\$10,000**.

***Current, participant***

Blair, J. M., S. G. Baer, W. K. Dodds, A. Joern and J. B. Nippert. “LTER: Long-term research on grassland dynamics- assessing mechanisms of sensitivity and resilience to global change,” NSF Long-Term Ecological Research (LTER) program, 11/01/14-10/31/20, est. \$6,762,000.

**Selected service**

***Leadership, KSU***

Curator, Kansas State University Herbarium, 2000-present

As Curator of the KSU Herbarium, the investigator oversees a collection of approximately 180,000 dried plant specimens along with a library of taxonomic literature. The Herbarium is utilized for botanical research and reference by plant systematists and other scientists, by a diversity of students, and by applied workers. Information from the holdings has been databased (with support from NSF and KSU), and representative specimens have been imaged (with support from the Institute for Museum and Library Services). Collaboration with the Department of Entomology (College of Agriculture, which houses the Museum of Entomological and Prairie Arthropod Research) and workers in the KSU Libraries (Digital Initiatives, Special Collections) has made campus research natural history holdings more accessible. See the Herbarium’s website, [www.ksu.edu/herbarium](http://www.ksu.edu/herbarium), and the website for the KSU Biodiversity Information System, [www.biodis.ksu.edu](http://www.biodis.ksu.edu).

PI and Project Director, KSU NSF GK-12 program, 2009-2015

This graduate training program, “*Evidence-based inquiry into the distant, remote, or past (EIDRoP): linking evidence to inference in the Kansas science classroom*,” was developed as a collaborative between several KSU STEM departments (primarily Biology, Chemistry, Geology and Physics), the Department of Philosophy, the KSU Center for Science Education in the College of Education, and USD 475 (the Ft. Riley, Kansas, area). EIDRoP graduate students served as “resident scientists” in high school classrooms, bringing current research into the classrooms while strengthening their own communication and collaboration skills. The program theme emphasized inference of phenomena we cannot “directly” observe (e.g., geological change, evolutionary history), with ties to state standards (including NGSS) on nature of science and science as inquiry. The project coordinated 43 NSF-funded GK-12 fellowships (with concurrent support to partner teachers) from 2009-2015. Since 2015, sustainability phases have included an “EIDRoP program” during 2015-2016, supporting two graduate students (Biology, Physics; and their partner teachers), and a current “KSU Arts & Sciences GK-12 program” supporting a graduate student from Chemistry (and partner teacher). Aspects of the program have been incorporated into the Broader Impacts programs of faculty in several disciplines.

Co-PI, K-State Teach Program, NSF Robert Noyce Teacher Scholarship Program, 2009-2015

NSF's Noyce program addresses the national need to enhance science content in public schools by facilitating teacher certification of students majoring in STEM fields. Scholars teach a minimum of two years (per scholarship year) in a high needs school district following their certification. KSU's program partnered Chemistry, Biology and Physics with the College of Education.

President, KSU Chapter of Sigma Xi, The Scientific Research Society, 2012-2013

The KSU Chapter of Sigma Xi promotes scientific research and public understanding of science. The Chapter supports a public lecture by a noteworthy speaker each spring, and makes annual awards to graduate students for excellence in research and research presentation, to an outstanding KSU scientist and an outstanding secondary school science teacher. The Chapter also partners with Kansas Citizens for Science to coordinate a monthly "Science Café," an informal presentation by a scientist on a topic of broad interest, which takes place at a local coffee shop and is promoted to the general public.

Co-Director, KSU Center for the Understanding of Origins, 2004-2009

The Origins program was a broad interdisciplinary initiative promoting scientific research, education and outreach on origins and evolution in the broad sense (cosmology to evolutionary biology). "Origins" sponsored numerous public lectures by noteworthy speakers, provided resources to faculty (including two new faculty hires, in Geology and Philosophy), and resulted in development of an outstanding undergraduate interdisciplinary University General Education course (collaboratively taught by faculty from Philosophy, Physics, Geology, the biological sciences, and English).

#### ***Additional internal service, KSU***

Faculty Senator, KSU Faculty Senate (elected representative, Arts and Sciences), 2015-2018

Member, Division of Biology Tenure and Promotion Committee, 2015-2019

Undergraduate adviser, 2007-present

Member of graduate student committees (student listing below; also as Outside Chair for Agronomy [College of Agriculture], Chemistry, Curriculum and Instruction [College of Education], Genetics [interdisciplinary], Geography, Horticulture [College of Agriculture], Plant Pathology [College of Agriculture]), 2001-present

Search committee member (three Division of Biology faculty searches [2003, 2007, 2013], Division of Biology Interim Director search [2009], and College of Education Dean search [2011-2012])

Member, Division of Biology Graduate Affairs Committee, 2004-2013

Member, Biology Graduate Recruitment Committee, 2011-2012

Secretary, KSU Chapter of Sigma Xi, 2006-2008

Member, Targeted Excellence preproposal review panel, December 2008

Member, Konza Prairie Faculty Advisory Committee, 2001-2007

#### ***External***

Editorial service: Associate Editor, Systematic Botany, 2014-2018

Society service: Council member (elected), American Society of Plant Taxonomists (ASPT), 2008-2011; Committee member, Nominations Committee, ASPT, 2011-2013; Committee member, Systematics Collections Committee, ASPT, 2009-2011 (Chair 2009-2011); Committee member, Committee on Participation of Underrepresented Groups, Botanical Society of America, 2007-2010

NSF proposal review: ad hoc and panel (panel service for programs including Systematic Biology, Biological Research Collections, Doctoral Dissertation Improvement Grants; 2002, 2003, 2007, 2009, 2013)

Conference organizer or co-organizer: “Great Plains Plant Systematics Symposium,” 2004, 2005, 2006, 2007, 2008, 2010 (hosted at Kansas State’s Konza Prairie Biological Station, for 5 of 6 years)

Participant in NSF-sponsored workshops: “Herbarium Networks,” Michigan State University, September 2004; “US Virtual Herbarium,” Missouri Botanical Garden, February 2010; “CollectionWeb RCN’s New Approaches to Specimen-based Education,” Radford University, October 2011

Reviewer of manuscripts: *Annals of Botany*, *American Journal of Botany*, *Biological Journal of the Linnean Society*, *Castanea*, *Journal of the American Society for Horticultural Science*, *Journal of the Botanical Research Institute of Texas / Sida*, *Lundellia*, *Molecular Phylogenetics and Evolution*, *Novon*, *Rhodora*, *Systematic Botany*, *Taxon*

External reviewer of tenure and promotion packages: seven packages

**Presentations** (2000-present, including invited seminar talks, talk and poster presentations at national/international meetings, contributed discussion sessions, panelist presentations, as indicated; presenter(s) underlined; ^ indicates graduate student; \* indicates undergraduate)

Ladner\*, J., M. H. Mayfield, A. Prather and C. J. Ferguson. Polyploidy and diversity in *Phlox*: unusual patterns of genome size in *P. nana* Nutt. (Polemoniaceae). 14<sup>th</sup> Annual Ecological Genomics Symposium, Kansas City, MO, 28-30 October 2016. (poster)

Fehlberg, S. D., L. A. Prather and C. J. Ferguson. Environmental niche differentiation in three diploid-polyploid complexes in southwestern *Phlox* (Polemoniaceae). Botany 2016 (annual meetings of the American Society of Plant Taxonomists, the Botanical Society of America, and others), Savannah, GA, 30 July -3 August 2016. (talk)

Santiago, M. T.\*, K. Waselkov, B. Heidel, M. H. Mayfield and C. J. Ferguson. Genetic diversity of the Wyoming endemic *Phlox pungens* (Polemoniaceae), placed within a taxonomic context. Botany 2016 (annual meetings of the American Society of Plant Taxonomists, the Botanical Society of America, and others), Savannah, GA, 30 July -3 August 2016. (poster)

Santiago, M. T.\*, K. Waselkov, B. Heidel, M. H. Mayfield and C. J. Ferguson. Genetic diversity of the Wyoming endemic *Phlox pungens* (Polemoniaceae), placed within a taxonomic context. Evolution 2016 (annual meeting of the Society for the Study of Evolution, American Society of Naturalists, Society of Systematic Biologists), 17-21 June 2016. (poster)

Santiago, M. T.\*, K. Waselkov, B. Heidel, M. H. Mayfield and C. J. Ferguson. Genetic diversity of the rare plant species *Phlox pungens* (Polemoniaceae). 13<sup>th</sup> Annual Ecological Genomics Symposium, Manhattan, KS, 6-8 November 2015. (poster)

Ferguson, C. J. Natural history museums: a dynamic tool for biodiversity research. Outstanding Senior Scientist award seminar, KSU Chapter of Sigma Xi, Kansas State University, Manhattan, KS, 22 September 2015. (invited talk)

Chansler<sup>^</sup>, M., C. J. Ferguson, S. D. Fehlberg and L. A. Prather. Distinctive phenotypic patterns in polyploid *Phlox amabilis* (Polemoniaceae). Botany 2015 (annual meetings of the American Society of Plant Taxonomists, the Botanical Society of America, and others), Edmonton, Alberta, Canada, 25-29 July 2015. (talk)

- Prather, L. A., A. VanTill\*, M. Chansler^, S. D. Fehlberg and C. J. Ferguson. Preliminary analysis of local cytotypic, morphological and ecological variation in *Phlox amabilis* plants at Table Top Mountain, Arizona. Botany 2015 (annual meetings of the American Society of Plant Taxonomists, the Botanical Society of America, and others), Edmonton, Alberta, Canada, 25-29 July 2015. (talk)
- Santiago, M. T.\*, K. Waselkov, B. Heidel, M. H. Mayfield and C. J. Ferguson. Genetic diversity of the rare plant species *Phlox pungens* (Polemoniaceae). Botany 2015 (annual meetings of the American Society of Plant Taxonomists, the Botanical Society of America, and others), Edmonton, Alberta, Canada, 25-29 July 2015. (poster)
- Waselkov, K., S. D. Fehlberg, L. A. Prather, B. Wright^ and C. J. Ferguson. Assessing allelic diversity in polyploid complexes of *Phlox* (Polemoniaceae) using next-generation amplicon sequencing. Botany 2015 (annual meetings of the American Society of Plant Taxonomists, the Botanical Society of America, and others), Edmonton, Alberta, Canada, 25-29 July 2015. (talk)
- Ferguson, C. J. Using the plant genus *Phlox* to address questions of diversification at the “tips” of the tree of life. School of Biological Sciences, University of Nebraska, Lincoln, NE, 8 May 2015. (invited talk)
- Ferguson, C. J. Envisioning the future of the University of Nebraska State Museum. The University of Nebraska State Museum, University of Nebraska, Lincoln, NE, 7 May 2015. (invited talk)
- Braun\*, A. J., C. J. Ferguson and M. H. Mayfield. Variation in *Phlox condensata*: exploring cytotypic patterns relative to morphology and geography. Midwest Ecology and Evolutionary Biology Conference (MEEC), Bloomington, IN, 28-29 March 2015. (poster)
- Woods, T. M., C. J. Ferguson, T. Bolton, K. Morgan Dempewolf, E. A. Maatta, N. S. Rebello, J. D. Spears, S. Tanona and R. Steiger. GK-12 showcase: celebrating the impact and future of the EIDRoP initiative. International Teacher-Scientist Partnership Conference, San Francisco, CA, 11 February 2015. (poster)
- Santiago\*, M. T., K. Waselkov and C. J. Ferguson. Genetic diversity of the rare plant species *Phlox pungens*. 12<sup>th</sup> Annual Ecological Genomics Symposium, Kansas City, MO, 31 October-2 November 2014. (poster)
- Chansler^, M., C. J. Ferguson, S. D. Fehlberg and L. A. Prather. Analysis of morphological variation between diploid, tetraploid, and hexaploid *Phlox amabilis*. Botany 2014 (annual meetings of the American Society of Plant Taxonomists, the Botanical Society of America, and others), Boise, ID, 26-30 July 2014. (talk)
- Waselkov, K., B. Wright^, S. D. Fehlberg, M. H. Mayfield and C. J. Ferguson. Perplexing polyploidy in the Polemoniaceae: patterns in *Phlox* phylogenies. Botany 2014 (annual meetings of the American Society of Plant Taxonomists, the Botanical Society of America, and others), Boise, ID, 26-30 July 2014. (talk)
- Wright^, B., M. Chansler^, K. Waselkov, N. Busch, S. D. Fehlberg, L. A. Prather and C. J. Ferguson. Engaging students in scientific discovery through a collaborative, multidisciplinary research project on polyploidy and plant diversity. Botany 2014 (annual meetings of the American Society of Plant Taxonomists, the Botanical Society of America, and others), Boise, ID, 26-30 July 2014. (poster; see tweet by NSF: [https://twitter.com/nsf\\_bio/status/493942219967971328](https://twitter.com/nsf_bio/status/493942219967971328))



- Waselkov, K., B. Wright<sup>^</sup>, S. D. Fehlbeg, M. H. Mayfield and C. J. Ferguson. Disentangling phylogenetic relationships complicated by polyploidy in the genus *Phlox* (Polemoniaceae). Annual meeting, Society for the Study of Evolution, Raleigh, NC, 20-24 June 2014. (talk)
- Ferguson, C. J. Exploring polyploidy and diversity: the intriguing case of *Phlox pilosa*. Missouri Botanical Symposium, Missouri University of Science and Technology, Rolla, MO, 21 March 2014 (invited symposium talk)
- McGuinn<sup>\*</sup>, J. A. B., B. A. Wright<sup>^</sup> and C. J. Ferguson. Plant preservation methods and how they affect flow cytometry results. 2014 Midwest Ecology and Evolution Conference (MEEC), Dayton, OH, 1-2 March 2104. (poster)
- Waselkov, K., B. Wright<sup>^</sup>, L. A. Prather, S. D. Fehlbeg and C. J. Ferguson. Polyploidy and diversity in the genus *Phlox*: development of polyploid assemblages as study systems for phylogenetic and phylogeographic work. 11<sup>th</sup> Annual Ecological Genomics Symposium, Kansas City, MO, 1-3 November 2013. (poster)
- Fehlbeg, S. D., M. Ty<sup>\*</sup> and C. J. Ferguson. Genetic evidence bolstering the hypothesis of a hybrid origin of *Phlox pilosa* subsp. *deamii* (Polemoniaceae). Botany 2013 (annual meetings of the American Society of Plant Taxonomists, the Botanical Society of America, and others), New Orleans, LA, 27-31 July 2013. (talk)
- VanderWeide<sup>^</sup>, B. L., D. L. Carter<sup>^</sup>, Z. Ratajczak<sup>^</sup>, C. J. Ferguson and M. H. Mayfield. Sensitivity of a tallgrass prairie flora phenology to climate: inferences from historical observations and herbarium specimens. Botany 2013 (annual meetings of the American Society of Plant Taxonomists, the Botanical Society of America, and others), New Orleans, LA, 27-31 July 2013. (poster)
- Wright<sup>^</sup>, B. A. and C. J. Ferguson. Polyploidy in *Phlox nana* Nutt. (Polemoniaceae): documentation of cytotypic variation, and relationship to geography and taxonomic recognition. Botany 2013 (annual meetings of the American Society of Plant Taxonomists, the Botanical Society of America, and others), New Orleans, LA, 27-31 July 2013. (talk)
- Worcester<sup>\*</sup>, L., M. H. Mayfield, and C. J. Ferguson. Cytotypic variation in *Phlox pilosa* L. ssp. *pilosa* (Polemoniaceae), placed within the broader context of polyploidy in the genus. 101<sup>st</sup> Annual Technical Meeting, Oklahoma Academy of Science, University of Central Oklahoma, Edmond, OK, 9 November 2012. (talk)
- Rolfsmeier<sup>^</sup>, S. J. and C. J. Ferguson. Exploring diversity and assessing relationships in the North American *Lappula* (Boraginaceae). Botany 2012 (annual meetings of the American Society of Plant Taxonomists, the Botanical Society of America, and others), Columbus, OH, 7-11 July 2012. (talk)
- Worcester<sup>\*</sup>, L., M. H. Mayfield and C. J. Ferguson. Cytotypic variation in *Phlox pilosa* L. ssp. *pilosa* (Polemoniaceae), placed within the broader context of polyploidy in the genus. Botany 2012, Columbus, OH, 7-11 July 2012. (poster)
- Ferguson, C. J., T. Bolton, K. M. Dempewolf, E. A. Maatta, N. S. Rebello, J. D. Spears and S. Tanona. From evidence to inference in the Kansas science classroom: enhancing graduate student scientists' understanding and communication of nature of science through GK-12 experiences. Annual NSF GK-12 Meeting, Washington, DC, 16-18 March 2012. (poster)

- Worcester\*, L., M. H. Mayfield, and C. J. Ferguson. Polyploidy in *Phlox* L. (Polemoniaceae): genome size variation and chromosome counts across the genus. 2011 Ecological Genomics Symposium, Kansas City, MO, 4-6 November 2011. (poster)
- Rolfsmeier<sup>^</sup>, S. J. and C. J. Ferguson. Phylogeny and taxonomy of North American *Lappula* (Boraginaceae) in the context of Eurasian diversity. Botany 2011, St. Louis, MO, 9-13 July 2011. (poster)
- Vanderweide<sup>^</sup>, B., B. Sandercock and C. J. Ferguson. Mark-recapture analysis of herbarium data from the northern Flint Hills of Kansas, USA. Botany 2011, St. Louis, MO, 9-13 July 2011. (talk)
- Woods<sup>^</sup>, T. M., J. Jonas and C. J. Ferguson. The invasive *Lespedeza cuneata* attracts more insect pollinators than native congeners, with variable impacts. Botany 2011, St. Louis, MO, 9-13 July 2011. (talk)
- Ferguson, C. J., M. H. Mayfield, D. B. Allen, M. J. Haddock, H. Maringanti, J. K. Oleen and G. Zolnerowich. An intra-institutional collaborative to develop a Biodiversity Information System (BiodIS). Society for the Preservation of Natural History Collections /Natural Science Collections Alliance joint annual meeting, San Francisco, CA, 23-28 May 2011. (poster)
- Rolfsmeier<sup>^</sup>, S. J., R. Steiger, and C. J. Ferguson. The EIDRoP NSF GK-12 program in Russia: a botanical expedition to Siberia. Annual NSF GK-12 Meeting, Washington, DC, 11-13 March 2011. (poster)
- Ferguson, C. J., T. Melhem\*, L. A. Prather and S. D. Fehlberg. Perplexing patterns of polyploidy: investigating ploidy level variation and its correlates within the context of phylogeny in *Phlox* (Polemoniaceae). Botany 2010, Providence, RI, 31 July-4 August 2010. (talk)
- Trock, D. K., R. K. Rabeler and C. J. Ferguson. Permits: they're not just for animals anymore. Botany 2010, Providence, RI, 31 July-4 August 2010. (contributed discussion session)
- Ferguson, C. J. Polyploidy, gene flow and species boundaries: disentangling the systematics of the genus *Phlox*. Department of Botany, Oklahoma State University, Stillwater, OK, 9 March 2010. (invited seminar talk)
- Ferguson, C. J. Disentangling the systematics of the genus *Phlox*. Department of Biological Sciences, Wichita State University, Wichita, KS, 8 March 2010. (invited seminar talk)
- Ferguson, C. J. Pushing the boundaries: applying species criteria in light of genetic patterns in the plant genus *Phlox*. Haskell Indian Nations University, Lawrence, KS, 2 December 2009. (invited seminar talk)
- Rolfsmeier<sup>^</sup>, S. J., T. Melhem\*, S. D. Fehlberg and C. J. Ferguson. Use of flow cytometry methods to infer patterns of ploidy level variation in the plant genus *Phlox* (Polemoniaceae). 2009 Ecological Genomics Symposium, Kansas City, MO, 13-15 November 2009. (poster)
- Ferguson, C. J. Disentangling the systematics of the genus *Phlox* (Polemoniaceae). Rancho Santa Ana Botanic Garden, Claremont Graduate School, Claremont, CA, 28 September 2009. (seminar talk)
- Woods<sup>^</sup>, T. M. and C. J. Ferguson. The invasive plant *Lespedeza cuneata* attracts more insect pollinators than its native congeners in tallgrass prairie. Ecological Society of America annual meeting, Albuquerque, NM, 2-7 August 2009. (talk)

- Fehlberg, S. D., M. P. Nepal and C. J. Ferguson. The importance of genetic and cytotype variation in conservation: an example from *Phlox* (Polemoniaceae). Botany 2009, Snowbird, UT, 25-29 July 2009. (talk)
- Nepal, M. P., S. D. Fehlberg and C. J. Ferguson. Developing and applying low-copy nuclear regions for phylogenetic study in the genus *Phlox* (Polemoniaceae). Botany 2009, Snowbird, UT, 25-29 July 2009. (poster)
- Fehlberg, S. D., M. P. Nepal, M. Ty\* and C. J. Ferguson. Evolutionary history and ecological significance of polyploidy in the *Phlox woodhousei* complex in the arid southwest. 2008 Ecological Genomics Symposium, Kansas City, MO, 14-16 November 2008. (poster)
- Mayfield, M. H., C. J. Ferguson, G. Zolnerowich, D. B. Allen, H. Maringanti, M. J. Haddock and J.K. Oleen. Kansas State University's Biodiversity Information System: combining institutional expertise to enhance access to collections information. Biodiversity Information Standards (TDWG) annual meeting, Fremantle, Australia, 18-24 October 2008. (poster)
- Ferguson, C. J. Herbarium networking in the central Great Plains. Botany 2008, Vancouver, British Columbia, Canada, 26-30 July 2008. (invited presentation as part of conference symposium "Virtual herbaria: regional progress in organizing, fundraising, and delivering content")
- Fehlberg, S. D. and C. J. Ferguson. Genetic structure and evolutionary history of the *Phlox woodhousei* (Polemoniaceae) complex inferred from microsatellite data. Botany 2008, Vancouver, British Columbia, Canada, 26-30 July 2008. (talk)
- Rolfsmeier^, S. J., M. H. Mayfield and C. J. Ferguson. Presenting a unique biodiversity collection for the central Great Plains: digital initiatives of the Kansas State University Herbarium. Botany 2008, Vancouver, British Columbia, Canada, 26-30 July 2008. (poster)
- Mayfield, M.H., S. J. Rolfsmeier^ and C. J. Ferguson. Using digital initiatives to preserve and promote the Kansas State University Herbarium (KSC). Society for the Preservation of Natural History Collections/Natural Science Collections Alliance joint annual meeting, Oklahoma City, OK, 13-17 May 2008. (talk)
- Carlquist, S., C. J. Ferguson, D. M. Spooner and W. L. Wagner. Occupations in the plant sciences: asking the right questions, finding the right answers and sharing life experiences. Botany and Plant Biology Joint Congress 2007, Chicago, IL, 7-11 July 2007. (panel member, discussion)
- Fehlberg, S. D., K. A. Ford\*, M. C. Ungerer and C. J. Ferguson. Development, transferability, and application of microsatellite markers in *Phlox* (Polemoniaceae). Botany and Plant Biology Joint Congress 2007, Chicago, IL, 7-11 July 2007. (poster)
- Ferguson, C. J., M. P. Nepal^, S. Mohandass and M. H. Mayfield. Computerization of the Kansas State University Herbarium: digitizing a critical biodiversity collection for the Great Plains. Botany and Plant Biology Joint Congress 2007, Chicago, IL, 7-11 July 2007. (poster)
- Nepal^, M. P., C. J. Ferguson and M. H. Mayfield. Exploring A. S. Hitchcock's herbarium: historical botanical findings from computerization of the Kansas State University Herbarium. Botany and Plant Biology Joint Congress 2007, Chicago, IL, 7-11 July 2007. (talk)

- Nepal<sup>^</sup>, M. P., M. H. Mayfield and C. J. Ferguson. Phylogenetic relationships of *Morus* L. (Moraceae) inferred from nuclear and chloroplast DNA sequences. Botany and Plant Biology Joint Congress 2007, Chicago, IL, 7-11 July 2007. (poster)
- Woods<sup>^</sup>, T. M., D. C. Hartnett and C. J. Ferguson. Multiple reproductive modes contribute to fitness homeostasis of the invasive *Lespedeza cuneata* (Fabaceae). Botany and Plant Biology Joint Congress 2007, Chicago, IL, 7-11 July 2007. (talk; awarded Best Presentation, Student Ecological Sessions)
- Ferguson, C. J., M. P. Nepal<sup>^</sup>, S. Mohandass and M. H. Mayfield. Computerization of the Kansas State University Herbarium: digitizing a critical biodiversity collection for the Great Plains. Society for the Preservation of Natural History Collections annual meeting, St. Paul, MN, 22-26 May 2007. (poster)
- Fehlberg, S. D., K. A. Ford\* and C. J. Ferguson. Microsatellite marker development for *Phlox*: towards understanding the functional significance of reproductive character position. 2006 Ecological Genomics Symposium, Overland Park, KS, 3-5 November 2006. (poster)
- Johnson, L. A., C. J. Ferguson, R. Patterson, J. M. Porter, L. A. Prather and D. Wilken. From its roots to its shoots: insights into diversification patterns and processes in the phlox family (Polemoniaceae). Botany 2006, Chico, CA, 29 July-2 August 2006. (talk; invited talk as part of symposium "The evolution of the Ericales: recent insights using both morphology and molecules")
- Lowrey, T. and C. J. Ferguson. The Herbarium-LTER partnership: opportunities for reciprocal enhancement of research programs and infrastructure (Discussion Session: Systematics Section/ASPT). Botany 2006, Chico, CA, 29 July-2 August 2006. (contributed discussion session)
- Nepal<sup>^</sup>, M. P., C. J. Ferguson and M. H. Mayfield. Systematics and reproductive biology of the genus *Morus* L. (Moraceae). Botany 2006, Chico, CA, 29 July-2 August 2006. (poster)
- Ferguson, C. J. Phylogeny, morphological character evolution and pollination ecology of the plant genus *Phlox* (Polemoniaceae). Annual meeting, Southwestern Association of Naturalists, Colima, Mexico, 12-16 April 2006. (talk)
- Ferguson, C. J. and R. Patterson. The big picture on *Phlox* phylogeny. Botany 2005, Austin, TX, 13-17 August 2005. (talk)
- Woods<sup>^</sup>, T. M., S. C. Strakosh<sup>^</sup>, M. P. Nepal<sup>^</sup>, S. Chakrabarti<sup>^</sup>, N. B. Simpson<sup>^</sup>, M. H. Mayfield and C. J. Ferguson. Introduced species in Kansas: floristic changes and patterns of collection based on an historical herbarium. Botany 2005, Austin, TX, 13-17 August 2005. (poster)
- Woods<sup>^</sup>, T. M., S. C. Strakosh<sup>^</sup>, M. P. Nepal<sup>^</sup>, S. Chakrabarti<sup>^</sup>, N. B. Simpson<sup>^</sup>, M. H. Mayfield and C. J. Ferguson. Introduced species in Kansas: floristic changes and patterns of collection based on an historical herbarium. Annual meeting, Natural History Collections Alliance, Santa Barbara, CA, 12-14 May 2005. (poster)
- Woods<sup>^</sup>, T. M., S. C. Strakosh<sup>^</sup>, N. Simpson<sup>^</sup>, M. Nepal<sup>^</sup>, S. Chakrabarti<sup>^</sup> and C. J. Ferguson. Floristic changes documented by historical herbarium specimens: plant species introduced to Kansas. Botany 2004, Snowbird, UT, 31 July-5 August 2004. (poster)
- Gerlanc<sup>^</sup>, N. M., W. K. Dodds and C. J. Ferguson. Bison wallows, chance, and frogs: effects of breeding habitat choice on population dynamics in a prairie amphibian. Ecological Society of America annual meeting, Portland, OR, 1-5 August 2004. (talk)

- Strakosh<sup>^</sup>, S. C. and C. J. Ferguson. The *Phlox stansburyi* (Polemoniaceae) complex: taxonomy, insect visitation and phylogeny. Annual meeting, Society for the Study of Evolution, Ft. Collins, CO, 26-30 June 2004. (poster)
- Ferguson, C. J. From molecules to museums: systematics and phylogenetic relationships of the plant genus *Phlox*. Kansas State University Chapter of Sigma Xi (Outstanding Junior Scientist Lecture), Kansas State University, Manhattan, KS, 13 May 2004. (invited seminar talk)
- Ferguson, C. J. Systematics of the genus *Phlox* (Polemoniaceae): integrating phylogenetic, taxonomic and pollination studies. Department of Biology, St. Louis University, St. Louis, MO, 16 April 2004. (invited seminar talk)
- Strakosh<sup>^</sup>, S. C. and C. J. Ferguson. The *Phlox stansburyi* (Polemoniaceae) complex: taxonomy, insect visitation and phylogeny. Annual meeting, Southwestern Association of Naturalists, San Antonio, TX, 15-17 April 2004. (poster)
- Prather, L. A., O. Alvarez-Fuentes<sup>^</sup>, M. H. Mayfield and C. J. Ferguson. Documenting the decline in plant collecting in the United States: implications for systematic and floristic research. Botany 2003, Mobile, AL, 26-31 July 2003. (talk)
- Ferguson, C. J. I. Flocks of *Phlox*: phylogenetic insights into a classic system in plant evolution. II. Temporal trends in local plant collecting in the United States. Department of Botany, University of Wyoming, Laramie, WY, 13 December 2002. (invited seminar talk)
- Alvarez-Fuentes<sup>^</sup>, O., L. A. Prather, M. H. Mayfield and C. J. Ferguson. Patrones temporales de colecta: ¿a que ritmo están los herbarios acumulando especímenes? VIII Congreso Latinoamericano de Botánica (VIII Latin American Botanical Congress), Cartagena, Columbia, 13-18 October, 2002. (talk)
- Alvarez-Fuentes<sup>^</sup>, O., L. A. Prather, M. H. Mayfield and C. J. Ferguson. Temporal collecting patterns: at what rate are U.S. herbaria accumulating specimens? Botany 2002, Madison, WI, 2-7 August 2002. (talk)
- Ferguson, C. J., S. C. Strakosh<sup>^</sup>, M. Sidells<sup>^</sup> and R. Patterson. Phylogeny and geographic relations of *Phlox* (Polemoniaceae). Botany 2002, Madison, WI, 2-7 August, 2002. (talk)
- Mayfield, M. H. and C. J. Ferguson. Development of a phylogenetic framework for taxonomic and evolutionary studies in *Liatris* (Eupatorieae, Asteraceae). Botany 2002, Madison, WI, 2-7 August 2002. (poster)
- Wiggam-Harper<sup>^</sup>, S. D. and C. J. Ferguson. Pollination biology and breeding system of *Phlox divaricata* L. (Polemoniaceae). Ecological Society of America annual meeting, Tucson, AZ, 4-9 August 2002. (poster)
- Wiggam-Harper<sup>^</sup>, S. D. and C. J. Ferguson. Pollination biology and breeding system of *Phlox divaricata* L. (Polemoniaceae). Gordon Research Conference: Floral Scent Biology, Chemistry and Evolution, Ventura, CA, 3-8 March 2002. (poster)
- Ferguson, C. J. Flocks of *Phlox*: using phylogenetic data to address taxonomic and evolutionary questions in the genus *Phlox* L. (Polemoniaceae). Department of Plant Pathology, Kansas State University, Manhattan, KS, 27 September 2001. (invited seminar talk)
- Wiggam-Harper<sup>^</sup>, S. D. and C. J. Ferguson. Pollination biology of *Phlox divaricata* L. (Polemoniaceae): visitation, pollen threshold, and mating system in a Central Plains population. Botany 2001, Albuquerque, NM, 12-16 August, 2001. (poster)

Ferguson, C. J. Evolutionary relationships of *Phlox*: pattern and process. Department of Biology, San Francisco State University; San Francisco, CA, 1 February 2000. (invited seminar talk)

### Membership in professional societies

American Society of Plant Taxonomists (ASPT), Botanical Society of America (BSA), International Association of Plant Taxonomists (IAPT), Kansas Native Plant Society, Sigma Xi

### Courses

Taxonomy of Flowering Plants (BIOL 551, 4 credits, every fall semester)  
 Advanced Plant Systematics (BIOL 870, 4 credits, spring semesters, even years)  
 Topics in Biology: Field Botany (BIOL 697, 3 credits, co-taught intermittently)  
 Advanced Topics in Biology: GK-12 Seminar (BIOL 890, 1 credit, co-taught previously)  
 Advanced Topics in Biology: Biology of Invasive Plants (BIOL 890; co-taught previously)  
 Principles of Biology (BIOL 198; taught previously)

### Honors

2015: Outstanding Scientist Award, Sigma Xi, Kansas State University Chapter  
 2005, and 2008: "Making A Difference" Awards, KSU Women in Engineering and Science Program, Kansas State University  
 2003: Outstanding Junior Scientist Award, Sigma Xi, Kansas State University Chapter  
 2001: Full member, Sigma Xi, Kansas State University Chapter  
 1998-2000: NSF/Alfred P. Sloan Foundation Postdoctoral Fellow in Molecular Evolution  
 1998: Memorial Fellowship for Research Excellence in Organismal Biology, Department of Botany, University of Texas

### Mentoring

#### *Graduate students and postdoctoral researchers*

Katherine E. Waselkov, 2013-2015, postdoctoral research  
 Phylogenetics of polyploid complexes in *Phlox*  
 Bethany A. Wright, 2011-2014, M.S. 2014  
 "Cytotypic variation in *P. nana* Nutt., in the context of phylogeny of the genus"  
 Susan J. Rolfsmeier, 2007-2013, Ph.D. 2013  
 "Taxonomy and phylogeny of the genus *Lappula* Moench (Boraginaceae) in North America"  
 Shannon D. Fehlberg, 2006-2008, postdoctoral research  
 Population genetics of *Phlox*, particularly *P. amabilis* and *P. woodhousei*  
 Madhav P. Nepal, Ph.D. 2004-2008, Ph.D. 2008; and 2008-2009, postdoctoral research  
 "Systematics and reproductive biology of *Morus* L. (Moraceae)," Ph.D.; and use of low-copy nuclear regions for phylogeny development in *Phlox*, postdoctoral  
 Teresa M. Woods, 2003-2006, M.S. 2006  
 "A comparison of the reproductive systems of the invasive *Lespedeza cuneata* (Dum. Cours.) G. Don (Fabaceae) with three native congeners in the Flint Hills region of the tallgrass prairie"

Suzanne C. Strakosh, 2001-2004, M.S. 2004

“Systematic studies in *Phlox* (Polemoniaceae) with a focus on *P. dolichantha*, *P. superba*, *P. stansburyi* and *P. grayi*”

Shelly D. Wiggam Harper, 2000-2003, M.S. 2003

“The pollination and floral scent biology of *Phlox divaricata* L. (Polemoniaceae)”

**Graduate student committee service** (excluding Outside Chair assignments; KSU Division of Biology, unless noted; adviser)

Seton Bachle (J. Nippert), M.S. student, current

Alan Burke (Entomology; G. Zolnerowich), Ph.D. student, current

Julie Commerford (Geography; K. McLauchlan), Ph.D. 2016

Matthew Chansler (Plant Biology, Michigan State University; L. A. Prather), M.S. 2015

Anna Zahner (D. Hartnett), M.S. 2015

Jacqueline Ott (D. Hartnett), Ph.D. 2014

Benjamin VanderWeide (D. Hartnett), Ph.D. 2013

Zachary Lounsberry (S. Wisely), M.S. 2012

Beth Gastineau (D. Hartnett), M.S. 2011

Heather Barton (S. Wisely), Ph.D. 2010

Juan Campos (S. Wisely), Ph.D. 2009

Jacqueline Ott (D. Hartnett), M.S. 2009

Ashley Casey (B. Sandercock and S. Wisely), M.S. 2008

Harmony Dalglish (D. Hartnett), Ph.D. 2007

Maipelo Madome (D. Hartnett), M.S. 2007

Kristy Hajny (D. Hartnett), M.S. 2006

Robert Kula (Entomology; G. Zolnerowich), Ph.D. 2006

Jason Sweet (Geography; D. Goodin), M.S. 2006

Benjamin Aldrich (Entomology; S. Kambhampati), M.S. 2005

Seemanti Chakrabarti (Entomology; S. Kambhampati), Ph.D. 2005

Nichole Gerlanc (W. Dodds), Ph.D. 2004

***Undergraduate student researchers***

Undergraduate research is fostered in the Ferguson lab and the Herbarium; since 2000, the investigator has mentored NSF-REU students (five through grassland ecology/ecological genomics site grants, one through a supplement to a Systematic Biology grant), one SUROP student (through the Summer Undergraduate Research Opportunity Program for minority and first generation college students, KSU Graduate School), one HHMI student, two McNair scholars, two URM scholars (through an NSF Undergraduate Research and Mentoring program in ecological genomics), and 33 undergraduate research students total (25 women/minority). Additionally, the investigator has mentored one secondary school teacher through an NSF-RET supplement (to a Biological Research Collections grant).