

Paul G. Wolf - Curriculum Vitae

Address: Department of Biological Sciences, University of Alabama in Huntsville, 301 Sparkman Drive, Huntsville, AL 35899
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Education: Post doctoral researcher, University of California, Irvine: 1990-1991
Ph.D. Botany, Washington State University: 1990.
M.A. Botany (honors), University of Kansas: 1986.
B.Sc. Biological Sciences (honors), University of Leicester: 1982.

Professional experience:

Chair, Department of Biological Sciences, University of Alabama in Huntsville: 2019 - present
Associate Head, Department of Biology, Utah State University: 2014 – 2019
Professor, Department of Biology, Utah State University: 2005 – 2019
Associate Professor, Department of Biology, Utah State University: 1998 - 2005.
Assistant Professor, Department of Biology, Utah State University: 1992 - 1998.
Organized and taught workshops on software and data science. Utah State University. 2017, 2018.
Instructor Training Certification for Software and Data Carpentry
Director, Intermountain Herbarium; 2016 – 2019
Organized workshop on Genomics and Bioinformatics - ShaanXi Normal University, Xi'an, China. 20015
Sabbatical Visitor, University of Florida, 2014.
Sabbatical Visitor, Duke University, 2013
Research visitor, National Institute for Basic Biology, Okazaki Japan, Sept.-Dec. 2003.
Sabbatical visitor, Université Joseph Fourier, France, 1999 – 2000.
Post-doctoral Researcher, Washington State University: 1991-1992
Post-doctoral Research Associate, University of California, Irvine: 1990-1991.
Research assistant, Teaching assistant, Washington State University: 1986-1990.
Teaching assistant, University of Kansas: 1983-1986.

Awards and Honors:

Utah State University and College of Science University Service Award, 2018
Outstanding paper – Journal of Systematics and Evolution, 2018
Utah State University Mortar Board, Top Professor, 1998
Washington State University Summer Research Assistantship, 1989.
Hannah Aase Fellowship, Washington State University, 1986.
Graduated with honors, University of Kansas, 1986.
Graduated with honors, University of Leicester, 1982.

Grants:

2017: US Fish and Wildlife: \$13,985. *Eriogonum soredium* ESA status.
2016: United States Army Corps of Engineers: \$23,934 - *Lepidium* Phylogeny
2016: United States Army Corps of Engineers: \$106,000 – Genomics of wetland plants
2015: Recruitment Program of High-end Foreign Experts of the Chinese State Administration of Foreign Expert Affairs. Funded Research and workshop organization in Xi-An, China.
2013: Mary Gunson Memorial Fund: \$24,000. Origins of Galapagos *Pteridium*.
2012: US Fish and Wildlife: \$80,000. *Eriogonum corymbosum* range study
Nevada Division of Forestry: \$7827. *Eriogonum corymbosum* range study
2010: National Science Foundation (Program: DR K-12) \$2,489,331 (2010 – 2015); co-PI.
2009: US Forest Service \$99,200 + \$14,000 – Aspen transcriptome project
2005: National Science Foundation, supplement : \$12,500 (2003)
US Fish and Wildlife \$21,000 (2005 – 2007)
2003: Japanese Ministry (MEXT) : ¥1,840,000 (~ US\$17,000)
National Science Foundation, supplement : \$14,311
US Fish and Wildlife \$25,000 (2002 – 2007)
2002: National Science Foundation \$306,000 (2002 – 2007)
Utah State CURI Award \$34,500 (2002 – 2003)

- US Fish and Wildlife \$24,869 (2002 – 2007)
- 2001: Utah State Mineral Lease Grant: \$25,000.
Utah State University Biotechnology Center Challenge Grant: \$50,000
- 1998: Nature Conservancy, Nevada: \$29,904 1998 - 2000
- 1997: National Science Foundation, Dissertation Improvement Grant, \$10,000 (1997 – 1999)
National Science Foundation: REU supplement, \$5,000
- 1996: National Science Foundation: \$94,990 (1996 – 1999)
National Park Service: \$960 (with Laura Hickerson)
- 1994: Challenge Cost Share agreement with BLM: \$5,000 (+\$6,000 in 1997)
National Science Foundation: travel supplement, \$2,000 + \$2,400 in 1995
- 1993: Challenge Cost Share agreement with BLM: \$6,300
Utah State University Faculty Research Grant: \$14,614
National Science Foundation: \$182,615 (1993 – 1996)
Eccles Foundation (with E. E. Hood): \$62,824
NATO Collaborative Research Grant (with E. Sheffield), 200,000 Belgian F (\$5600)
- 1992: United States Forest Service (1992): \$6,000 + Challenge Cost Share agreement with BLM: \$2,000
Utah State University Faculty Research Grant: \$12,821
- 1988: NSF Doctoral Dissertation Improvement Grant (awarded with P.S. Soltis): \$8,250.

Non peer-reviewed articles

4. Wolf, P. G. 2001. Plasmid DNA the high throughput way. *The Scientist* **15**: 21-26.
3. Wolf, P. G. 2001. Profile: Buying used lab equipment. *The Scientist* **15**: 27-28
2. Wolf, P. G. 2001. Number crunching: Statistical analysis software aids data interpretation. *The Scientist* **15**: 22
1. Sinclair, R. B. and P. G. Wolf. 2000. A thousand points of light: novel fluorescent probes, tags, and molecular beacons. *The Scientist* **14**: 19-22

Book Chapters:

10. Wolf, P. G. and K. G. Karol. **2012**. Plastomes of bryophytes, lycophytes and ferns. Pages 89 – 102 *In Advances in Photosynthesis and Respiration*. Vol 35. "Genomics of chloroplasts and mitochondria". Editors: Ralph Bock & Volker Knoop. Springer, Dordrecht.
9. Wolf, P. G. **2012**. Plastid genome diversity. Pages 145-154. *In "Plant Genome Diversity"* by Edited by Johann Greilhuber, Jonathan Wendel, Ilia J. Leitch, Jaroslav Dolezel. Springer Verlag.
8. Wolf, P.G. and J. M. Roper. **2008**. Structure and evolution of fern plastid genomes. In: "Biology and Evolution of Ferns and Lycophytes" Edited by Tom A. Ranker and Christopher H. Haufler (Cambridge Univ. Press)
7. Smith, A. R., K. M. Pryer, E. Schuettpelz, P. Korall, H. Schneider, & P. G. Wolf. **2008**. Fern Classification. In: "Biology and Evolution of Ferns and Lycophytes" Edited by Tom A. Ranker and Christopher H. Haufler (Cambridge University Press)
6. Schneider, H., K. M. Pryer, R. Cranfill, A. R. Smith, P. G. Wolf. **2002**. Phylogeny of vascular plants and the evolution of their body plans. *In Developmental Genetics and Plant Evolution*. Q. Cronk, R. M. Bateman, J. A. Hawkins (Eds.) Taylor and Francis, London.
5. Wolf, PG, KM Pryer, AR Smith, & M Hasebe. **1998**. Phylogenetic studies of extant pteridophytes. In: *Molecular Systematics of Plants*, 2nd Ed. P. S. Soltis, D. E. Soltis, J. J. Doyle (Eds). Chapman and Hall, pp 541-556.
4. Wolf, P. G. 1996. Pteridophyte phylogenies based on analyses of DNA sequences: A multiple gene approach. (Book Chapter). In *Pteridology in Perspective*. **1996**. J.M. Camus, M. Gibby and R.J. Johns (eds). pp 203 - 215. Royal Botanic Gardens, Kew.
3. Wolf, P. G., E. Sheffield and J. A. Thomson and R. B. Sinclair. **1995**. Chapter 3. Bracken taxa in Britain: a molecular analysis. Chapter 3 (pp. 16-20) in "Bracken: An Environmental Issue" Eds.: R. T. Smith and J. A. Taylor. University of Leeds.
2. Sheffield, E., P.G. Wolf and T. A. Ranker. **1995**. Genetic analysis of bracken in the Hawaiian Islands. Chapter 5 (pp. 29-32). in "Bracken: An Environmental Issue". Eds.: R. T. Smith and J. A. Taylor. Univ. Leeds.
1. Sheffield, E., P. G. Wolf, C. H. Haufler. 1986. *Pteridium herediae*: A dangerous diploid bracken? In: Bracken - Ecology, land use and control technology. R. T. Smith and J. A. Taylor (eds.). Parthenon Publ. Group.

Peer-reviewed journal articles: * denotes graduate student; & denotes undergrad

90. Wolf, PG and MS Barker. 2019. Current status and future prospects for fern and lycophyte Genomics: introduction to an American Fern Journal special issue. *American Fern Journal* 109 (3):

89. *Robison TA and PG Wolf. **2019**. ReFernment: an R package for annotating RNA editing in plastid genomes. *Applications in Plant Sciences* 7(2): e1216
88. Rowe CA, PG Wolf, RW Lichvar. **2019**. Do genetic differences explain the ability of an alkaline shrub to grow in both uplands and wetlands? *Western North American Naturalist*: 79: 260–269.
87. Ellis, MW, PG Wolf, CA Rowe. **2018**. Field identification of *Eriogonum corymbosum* vars. *nilesii* and *aureum* (Polygonaceae). *Phytotaxa* 382: 293–296.
86. *Robison TA, Grusz AL, Wolf PG, Mower JP, &Fauskee BD, *Sosa K, Schuettpelez E. **2018**. Mobile elements shape plastome evolution in ferns. *Genome Biology and Evolution* 10: 2558-2571.
85. *Lemon JB and PG Wolf. **2018**. Genetic differentiation between endemic *Eriogonum soledium* and its common relative *E. shockleyi* (Polygonaceae). *Systematic Botany* 43: 901-909.
84. Rowe, CA, Hauber, DP, Wolf PG. **2018**. Genomic variation of introduced *Salvinia minima* in southeastern United States. *Aquatic Botany* 151: 38-42. <https://doi.org/10.1016/j.aquabot.2018.07.011>
83. Li, F-W, Wolf, P.G., et al. **2018**. Fern genomes elucidate land plant evolution and cyanobacterial symbioses. *Nature Plants* 4: 460–472.
82. *Schilling MP, Gompert Z, Li F-W, Windham MD, Wolf PG. **2018**. Admixture, evolution, and variation in reproductive isolation in the *Boechera puberula* clade. *BMC Evolutionary Biology* 18: 61
81. Wolf, PG, *Robison TA, Johnson MG, Sundue MA, Testo WL, Rothfels CJ. **2018**. Target Sequence Capture of Nuclear-Encoded Genes for Phylogenetic Analysis in Ferns. *Applications in Plant Sciences* 6(5): e1148
80. Cai S, G Chen, Y Wang, Y Huang, DB Marchant, Y Wang, Q Yang, F Dai, A Hills, PJ Franks, E Nevo, DE Soltis, PS Soltis, E Sessa, PG Wolf, D Xue, G Zhang, BJ Pogson, MR Blatt, Z-H Chen. **2017**. Evolutionary conservation of ABA signaling for stomatal closure in ferns. *Plant Physiology* 174: 732-747. doi:10.1104/pp.16.01848
79. The Pteridophyte Phylogeny Group I. **2016**. A community-derived classification for extant lycophytes and ferns. *Journal of Systematics and Evolution*. 54: 563–603.
78. Longhurst ML, DC Coster, PG Wolf, AM *Duffy, H Lee, DT Campbell. **2016**. Multi-year professional development grounded in educative curriculum focused on integrating technology with reformed science teaching principles. *School Science and Mathematics* 116: 430-441
77. Wolf PG, Rowe CA, Der JP, *Schilling MP, Visger CJ, Thomson J. **2015**. Origins and diversity of a cosmopolitan fern genus on an island archipelago. *AoB Plants* 7: plv118; DOI: 10.1093/aobpla/plv118
76. Wolf PG, Sessa EB, Marchant DB, Li F-W, Rothfels CJ, Sigel EM, Gitzendanner MA, Visger CJ, Banks JA, Soltis DE, Soltis PS, Pryer KM, Der JP. **2015**. An exploration into fern genome space. *Genome Biology and Evolution* 7: 2533-2544.
75. Ellis MW, PG Wolf, S Bardot, &JA Walton, CA Rowe, S Kulpa, and KA Mock. **2015**. Further Examination of the Geographic Range of *Eriogonum corymbosum* var. *nilesii* (Polygonaceae). *Phytotaxa* 203: 279–286.
74. Sessa, E.B., J.A. Banks, M.S. Barker, J.P. Der, A.M. *Duffy, S.W. Graham, M. Hasebe, J. Langdale, F.W. Li, D.B. Marchant, K.M. Pryer, C.J. Rothfels, S.J. Roux, M.L. Salmi, E.M. Sigel, D.E. Soltis, P.S. Soltis, D.W. Stevenson, and P.G. Wolf. **2014**. Between two fern genomes. *GigaScience* 3: 15.
73. *Schilling, M., Wolf, P. G., *Duffy, A. M., Rai, H. S., Rowe, C.A., Richardson, B. A., Mock, K. E. **2014**. Genotyping-by-sequencing for *Populus* population genomics: an assessment of genome sampling patterns and filtering approaches. *PLoS One* 9: e95292.
72. Campbell, T. D., B. A. ZuWallack, D.T. M. Longhurst, B. Shelton, P. G. Wolf. **2014**. An examination of the changes in science teaching orientations and technology-enhanced tools for student learning in the context of professional development. *International Journal of Science Education*. 36: 1815-1848.
71. Davidson, J. B. S. L. Durham, and P. G. Wolf. **2014**. Breeding system of the threatened endemic, *Primula cusickiana* var. *maguirei* (Primulaceae). *Plant Species Biology* 29: e55-e63.
70. Rai, H. S., K. E. Mock, B. A. Richardson, R. C. Cronn, K. J. Jayden, J. W. Wright, B. J. Knaus, P. G. Wolf. **2013**. Transcriptome characterization and detection of gene expression differences in aspen (*Populus tremuloides*). *Tree Genetics and Genomes* 9: 1031-1041. DOI: 10.1007/s11295-013-0615-y.
69. Mock, K. E., B. A. Richardson, and P. G. Wolf. **2013**. Molecular tools and aspen management: a primer and prospectus. *Forest Ecology and Management* 299: 6-13
68. *Duffy, A. M., Wolf, P. G., Barrow, J., Longhurst, M., Campbell, D.T. & Beckett, H. **2013**. Ecological investigations within an interactive plant community simulation. *Science Scope* 36(8): 42-51.
67. Campbell, D.T., Longhurst, M., *Duffy, A. M, Wolf, P. G., & Shelton, B. E. **2013**. Science teaching orientations and technology-enhanced tools for student learning in science. *Research in Science Education*. 43:2035–2057
66. Campbell, D.T., Longhurst, M., *Duffy, A. M., Wolf, P. G., & Nagy, R. **2012**. Investigating human impact in the environment with faded scaffolded inquiry supported by technologies. *Science Activities*. 49: 4

65. Mock, K.E., *Callahan, C.M., Islam-Faridi, M.N., Shaw, J.D., Rai, H.S., Sanderson, S.C., Rowe, C.A., Ryel, R.J., Madritch, M.D., *Gardner, R.S., Wolf, P.G., **2012**. Widespread triploidy in western North American aspen (*Populus tremuloides*). PLoS ONE 7(10): e48406. doi:10.1371/journal.pone.0048406
64. Campbell, D. T., P. G. Wolf, *J. P. Der, E. Packenham, and N. Abd-Hamid. **2012**. Scientific inquiry in the genetics laboratory: biologists and university science teacher educators collaborating to increase engagement in science process. Journal of College Science Teaching 42: 82-89.
63. *Davidson, J. B. and P. G. Wolf. **2011**. Natural history of Maguire primrose, *Primula cusickiana* var. *maguirei* (Primulaceae). Western North American Naturalist **71**: 327 - 337.
62. Banks, J. A., T. Nishiyama, M. Hasebe, J. L. Bowman, M. Gribskov, C. dePamphilis, P. G. Wolf et al. **2011**. The Selaginella genome identifies changes in gene content associated with the evolution of vascular plants. Science 332: 960-963. DOI: 10.1126/science.1203810.
61. *Der, J. P., M. S. Barker, N. J. Wickett, C. W. dePamphilis, P. G. Wolf. **2011**. De novo characterization of the gametophyte transcriptome in bracken fern, *Pteridium aquilinum*. BMC Genomics 12: 99. doi:10.1186/1471-2164-12-99.
60. Wolf P.G., Der J.P., *Duffy A.M., *Davidson J.B., Grusz A.L., Pryer K.M. **2011**. The evolution of chloroplast genes and genomes in ferns. Plant Molecular Biology 76: 251-261. DOI 10.1007/s11103-010-9706-4.
59. Karol, K. G., Arumuganathan, K., Boore, J. L., *Duffy, A. M., Everett, K. D. E., Hall, J. D., *Hansen, S. K., Kuehl, J. V., Mandoli, D. F., Mishler, B. D., Olmstead, R. G., Renzaglia, K. S., Wolf, P. G. **2010**. Complete plastome sequences of *Equisetum arvense* and *Isoetes flaccida*: implications for phylogeny and plastid genome evolution of early land plant lineages. BMC Evol. Biol. 10: 321.
58. Campbell, D. T., S. W. Wang, H-Y. Hsu, *A. M. Duffy, and P. G. Wolf. **2010**. Learning with Web Tools, Simulations, and Other Technologies in Science Classrooms. Journal of Science Education and Technology 19:505-511.
57. Wolf, P. G., *Roper, J. M., *Duffy, A. M. **2010**. The evolution of chloroplast genome structure in ferns. Genome 53: 731-738.
56. Oliver, M. J., A. G. Murdock, B. D. Mishler, J. V. Kuehl, J. L. Boore, D. F. Mandoli, K. D. E. Everett, P. G. Wolf, *A. M. Duffy, K. G. Karol. **2010**. Chloroplast genome sequence of the moss *Tortula ruralis*: gene content, polymorphism, and structural arrangement relative to other green plant chloroplast genomes. BMC Genomics 2010, 11:143
55. Barker, M. S. and P. G. Wolf. **2010**. Unfurling fern biology in the genomics age. BioScience 60(3): 177-185.
54. *Ellis, M. W. and P. G. Wolf. **2010**. Teaching Species. Evolution: Education and Outreach 3: 89-98.
53. Wolf, P. G., *A. M. Duffy, and *J.M. Roper. 2009. Phylogenetic use of inversions in fern chloroplast genomes. American Fern Journal 99:132-133.
52. *Ellis, M. W., *J. M. Roper, *R. Gainer, *J. P. Der, and P. G. Wolf. **2009**. The taxonomic designation of *Eriogonum corymbosum* var. *nilesii* (Polygonaceae) is supported by AFLP and cpDNA analyses. Systematic Botany 34: 693-703.
51. *Duffy, A. M., S. A. Kelchner, and P. G. Wolf. **2009**. Conservation of selection on *matK* following an ancient loss of its flanking intron. Gene 438: 17-25.
50. *Der, J. P., J. A. Thomson, *J. K. Stratford & P. G. Wolf. **2009**. Global chloroplast phylogeny and biogeography of bracken (*Pteridium*: Dennstaedtiaceae). American Journal of Botany 96: 1041-1049.
49. *Bjerregaard, L. and P. G. Wolf. 2008. Strong genetic differentiation among neighboring populations of a locally endemic primrose. Western North American Naturalist **68**: 66-75.
48. Wickett, N. J., Y. Zhang, *S. K. Hansen, *J. M. Roper, J. V. Kuehl, S. A. Plock, B. Goffinet, P. G. Wolf, C. W. dePamphilis, Jeffrey L. Boore. **2008**. Functional gene losses occur with minimal size reduction in the plastid genome of the parasitic liverwort *Aneura mirabilis*. Molecular Biology and Evolution **25**: 393-401.
47. *Roper, J.M., *S.K. Hansen, P.G. Wolf, K.G. Karol, D.F. Mandoli, K.D.E. Everett, J. Kuehl, J.L. Boore. **2007**. The Complete Plastid Genome Sequence of *Angiopteris evecta* (G. Forst.) Hoffm. (Marattiaceae). American Fern Journal 97 (2): 95-106
46. Smith, A. R., K. M. Pryer, E. Schuettpelz, P. Korall, H. Schneider & P. G. Wolf. **2006**. A classification for extant ferns. Taxon 55 (3): 705-731
45. Wolf, P.G, K.G. Karol, D. F. Mandoli, J. Kuehl, K. Arumuganathan, *M. W. Ellis, B. D. Mishler, D. G. Kelch, R. G. Olmstead, J. L. Boore. **2005**. The first complete chloroplast genome sequence of a lycophyte, *Huperzia lucidula* (Lycopodiaceae). Gene 350: 117-128.
44. Wolf, P. G., C. A. Rowe, M. Hasebe. 2004. High levels of RNA editing in a vascular plant chloroplast genome: analysis of transcripts from the fern *Adiantum capillus-veneris*. Gene **339**: 89-97

43. Pryer, K. M., E. Schuettpelz, P. G. Wolf, H. Schneider, A. R. Smith, R. Cranfill. 2004. Phylogeny and evolution of ferns (monilophytes) with a focus on the early leptosporangiate divergences. *American Journal of Botany* **91**: 1557-1581
42. Nishiyama, T., M. Kugita, R. B. Sinclair, M. Sugita, C. Sugiura, T. Wakasugi, P. G. Wolf, K. Yamada, K. Yoshinaga, and M. Hasebe. 2004. Bryophytes are monophyletic and land plants comprise two extant lineages. *Molecular Biology and Evolution*, **21** (10): 1813-1819
41. Wolf, P. G., B. Doche, L. Gielly and P. Taberlet. 2004. Genetic structure of *Rhododendron ferrugineum* at a wide range of spatial scales. *Journal of Heredity* **95**: 301-308
40. Wolf, P. G., C. A. Rowe, R. B. Sinclair, M. Hasebe. 2003. Complete nucleotide sequence of the chloroplast genome from a leptosporangiate fern, *Adiantum capillus-veneris* L. *DNA Research* **10** (2): 59-64.
39. *Rowe, D. L., M. T. Murphy, R. C. Fleischer, and P. G. Wolf. 2001. High frequency of extra-pair paternity in Eastern Kingbirds. *Condor* **103**: 845-851.
38. *Sipes, S. D. and P. G. Wolf. 2001. Phylogenetic relationships within *Diadasia*, a group of specialist bees. *Molecular Phylogenetics and Evolution* **19**: 144-156.
37. Smith, A. R., H. Tuomisto, K. M. Pryer, J. S. Hunt, P. G. Wolf. 2001. *Metaxya lanosa*, a second species in the genus and fern family Metaxyaceae. *Systematic Botany* **26**: 480-486.
36. *Archibald J.K., P.G. Wolf, V. J. Tepedino, and J. Bair. 2001. Genetic relationships and population structure of the endangered steamboat buckwheat, *Eriogonum ovalifolium* var. *williamsiae* (Polygonaceae). *American Journal of Botany* **88**: 608-615.
35. Wolf, P. G., D. R. Campbell, N. M. Waser, *S. D. Sipes, T. R. Toler, and *J. K. Archibald. 2001. Tests of pre- and post-pollination barriers to hybridization between sympatric species of *Ipomopsis* (Polemoniaceae). *American Journal of Botany* **88**: 213-219.
34. Wolf, P. G., H. Schneider, and T. A. Ranker. 2001. Geographic distributions of homosporous fern taxa: does dispersal obscure evidence of vicariance? *Journal of Biogeography* **28**: 263-270.
33. Pryer, K. M., H. Schneider, A. R. Smith, R. Cranfill, P. G. Wolf, J. S. Hunt, and *S. D. Sipes. 2001. Horsetails and ferns are a monophyletic group and the closest relatives to seed plants. *Nature* **409**: 618-622.
32. Wolf, P. G., *S. D. Sipes, *M. R. White, *M. L. Martines, K. M. Pryer, A. R. Smith, K. Uedo. 1999. Phylogenetic relationships of the enigmatic fern families Hymenophyllopsidaceae and Lophosoriaceae: evidence from *rbcL* nucleotide sequences. *Plant Systematics and Evolution* **219**: 263-270.
31. Soltis, P. S., D. E. Soltis, P. G. Wolf, D. L. Nickrent, S-M. Chaw, and R. L. Chapman. 1999. The Phylogeny of land plants inferred from 18S rDNA sequences: pushing the limits of rDNA signal? *Molecular Biology and Evolution* **16**: 1774 - 1784.
30. *Bobowski, B. R., D. Hole, P. G. Wolf, and L. Bryant. 1999. Identification of roots of woody species using polymerase chain reaction. *Molecular Ecology* **8**: 485-491.
29. Shelly, J. S., P. Lesica, P. G. Wolf, P. S. Soltis, and D. E. Soltis. 1998. Systematic studies and conservation status of *Claytonia lanceolata* var. *flava* (Portulacaceae). *Madroño* **45**: 64-74.
28. Campbell, D. R., N. M. Waser, P. G. Wolf. 1998. Pollen transfer by natural hybrids and parental species in an *Ipomopsis* hybrid zone. *Evolution* **52**: 1602-1611.
27. *Hickerson, L.L. and P.G. Wolf. 1998. Population genetic structure of *Arctomecon californica* Torrey & Frémont (Papaveraceae) in fragmented and unfragmented habitats. *Plant Species Biology* **13**: 21-33.
26. Kropp, B. R., D. R. Hansen, P. G. Wolf, K. M. Flint, S. V. Thomson. 1997. A study on phylogeny of the dyer's woad rust fungus and other species of *Puccinia*. *Phytopathology* **87**: 565-571.
25. Wolf, P. G. 1997. Evaluation of *atpB* nucleotide sequences for phylogenetic studies of ferns and other pteridophytes. *American Journal of Botany* **84**: 1429-1440.
24. *Sipes, S. D. and P. G. Wolf. 1997. Clonal structure and patterns of allozyme diversity in the rare endemic *Cycladenia humilis* var. *jonesii* (Apocynaceae). *American Journal of Botany* **84**: 401-409.
23. Wolf, P. G. and R. B. Sinclair. 1997. Highly differentiated populations of the narrow endemic, Maquire primrose (*Primula maguirei*). *Conservation Biology* **11**: 375-381
22. Wolf, P. G., *R. A. Murray, and *S. D. Sipes. 1997. Species-independent, geographic structuring of chloroplast DNA haplotypes in a montane herb, *Ipomopsis* (Polemoniaceae). *Molecular Ecology* **6**: 283-291.
21. Perault, D. R., P. G. Wolf, and T. C. Edwards. 1997. An analysis of genetic variation and population structure in the least (*Eutamias minimus*) and Uinta (*E. imbrinus*) chipmunks. *Journal of Mammalogy* **78**: 134-145.
20. *Lanoue, K. Z., P. G. Wolf, *S. Browning, and E. E. Hood. 1996. Phylogenetic analysis of restriction site variation in wild and cultivated *Amaranthus* species (Amaranthaceae). *Theoretical and Applied Genetics* **93**: 722-732.

19. Hasebe, M. P. G. Wolf et al. 1995. Fern phylogeny based on *rbcL* nucleotide sequences. *American Fern Journal* **85**: 134-181
18. Wolf, P. G. 1995. Phylogenetic analyses of *rbcL* and nuclear ribosomal RNA gene sequences in Dennstaedtiaceae. *American Fern Journal* **85**: 306-327
17. Wolf, P. G. and D. R. Campbell. 1995. Hierarchical analysis of allozymic and morphometric variation in a montane herb, *Ipomopsis aggregata* (Polemoniaceae). *Journal of Heredity* **86**: 386-394.
16. Wolf, P. G., P. S. Soltis, D. E. Soltis. 1994. Phylogenetic relationships of Dennstaedtioid Ferns: Evidence from *rbcL* sequence variation. *Molecular Phylogenetics and Evolution* **3**: 383-392.
15. Wolf, P. G., P. S. Soltis and D. E. Soltis. 1993. Phylogenetic significance of chloroplast DNA restriction site variation in the *Ipomopsis aggregata* complex and related species (Polemoniaceae). *Systematic Botany* **18**: 652-662
14. Sheffield, E, P. G. Wolf, F. J. Rumsey, D. J. Robson, T. A. Ranker, S. M. Challinor. 1993. Spatial distribution and reproductive behavior of a triploid bracken (*Pteridium aquilinum*) clone in Britain. *Annals of Botany* **72**: 231-237
13. Wolf, P. G. and P. S. Soltis. 1992. Estimates of gene flow among populations, geographic races, and species in the *Ipomopsis aggregata* complex (Polemoniaceae). *Genetics* **130**: 639-647.
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3. Wolf, P. G., P. S. Soltis and D. E. Soltis. 1988. Chloroplast DNA variation in *Heuchera grossulariifolia* (Saxifragaceae). (Abstract of paper presented at the annual meeting of the American Institute of Biological Sciences). *Amer. J. Bot.* 75: 218
2. Wolf, P. G., P. S. Soltis and D. E. Soltis. 1987. Autopolyploid evolution in *Heuchera grossulariifolia* (Saxifragaceae). (Abstract of paper presented at the annual meeting of the American Institute of Biological Sciences). *Amer. J. Bot.* 74: 767.
1. Wolf, P. G. 1985. Analysis of the polyploid nature of bracken fern (*Pteridium aquilinum*). (Abstract of paper presented at the annual meeting of the American Institute of Biological Sciences). *Amer. J. Bot.* 72: 930

Invited presentations at meetings:

- Wolf, P. G. and R. J. Duff. 2005. RNA editing in land plant organellar genomes and its effect on phylogenetic analysis. Invited symposium talk at the Annual Meeting of the Botanical Society of America, Austin TX.
- Dean G. Kelch, Kenneth G. Karol, Brent D. Mishler, and Paul G. Wolf. 2005. Inference of land plant phylogeny from genomic chloroplast data. Genomics Symposium at the 17th International Botanical Congress, Vienna.
- K.M. Pryer, H. Schneider, J.S. Hunt, P.G. Wolf, & A.R. Smith. 1999. Basal tracheophytes and the phylogeny of "pteridophyte" lineages. Symposium on the Phylogeny of Green Plants and International Workshop on Advances on the Phylogeny of Bryophytes, Xalapa, Veracruz, Mexico
- Wolf, P. G., H. Schneider, and T. A. Ranker. 1999. The roles of vicariance and long-distance dispersal in the origin of fern distributions. Presented at the International Botanical Conference. *American Journal of Botany*
- Wolf, P. G. and K. M. Pryer. 1997. Multiple gene approaches to fern phylogeny. Presented as part of Symposium on Relationships and fossil history of ferns, organized by the Botanical Society of America, Montreal Conference.
- Soltis, D. E., P. S. Soltis and P. G. Wolf. 1990. Isozyme evidence for genetic diploidy in homosporous pteridophytes. Presented at the International Pteridological Conference.
- Soltis, P. S., D. E. Soltis and P. G. Wolf. 1990. Allozymic and chloroplast DNA analyses of polyploidy in *Polystichum*. Presented at the International Pteridological Congress.
- Wolf, P. G., L. Sheffield and C. H. Haufler. 1989. Genetic attributes of bracken as revealed by enzyme electrophoresis. Presented at the International Bracken Conference, Sydney, Australia.
- Wolf, P. G., C. H. Haufler and L. Sheffield. 1988. Maintenance of genetic variation in the clonal weed *Pteridium aquilinum* (bracken). Southern Association of Agricultural Scientists, New Orleans, LA.

Invited Seminars:

- 2018: Shanghai Chenshan Botanical Gardens, China
Jishou University, China
- 2017: University of Alabama, Huntsville
- 2015: Organization of Tropical Studies, La Selva, Costa Rica
Old Dominion University
Shaang Xi Normal University, China
Shanghai Chenshan Botanical Gardens
- 2014: University of Florida
- 2013: University of Vermont
Duke University
- 2012: Florida Gulf Coast University
- 2008: University of Michigan
University of Florida
- 2007: St. Thomas University
Macalester University
- 2006: University of Connecticut
- 2005: Duke University
Idaho State University
Rancho Santa Ana Botanical Garden
- 2004: Spring : Utah State University, Department of Biology – Brown Bag lunch
Fall : Utah State University, Department of Biology
University of Washington, Department of Biology
- 2003: National Institute for Basic Biology, Okazaki, Japan
Idaho State University
Utah State University
- 2002: University of Louisville, KY
University of California, Berkeley
Department of Energy, Joint Genome Institute, Walnut Creek, CA
- 2001: University of Manchester, UK
- 1999: Brigham Young University
Université Joseph Fourier, Grenoble, France
- 1998: University of Vermont
Texas A & M University
University of Michigan
Boise State University
- 1997: Utah State University, Department of Biology and Molecular Biology Program
- 1995: Utah State University, Department of Biology
- 1994: Utah State University, Department of Biology and Molecular Biology Program
University of British Columbia, Vancouver
- 1993: University of Utah, University of Kansas
- 1992: Utah State University, Department of Fisheries and Wildlife
- 1991: Rancho Santa Ana Botanic Garden, CA.
Utah State University, Department of Biology
Indiana University, Bloomington
- 1991: University of Hawaii, Manoa
University of California, Riverside
- 1990: University of California, Riverside, Washington State University, Pullman
University of California, Irvine, University of Texas, Austin
- 1988: University of Manchester, England

Courses taught:

- | | |
|---------------------------------------------------------|---------------------------------------------|
| Evolutionary Genetics (lecture) | Evolutionary Genomics |
| Principles of genetics (undergraduate lecture) | Genetics lab (undergraduate lab) |
| Population Genetics (undergraduate/graduate lecture) | General Ecology (graduate lecture) |
| Principles of Phylogenetic Systematics | Phylogenetic systematics (graduate lecture) |
| Molecular Population genetics Laboratory (graduate lab) | History of population genetics (seminar) |

Alternative approaches to phylogenetic analysis (seminar)
Phylogenetic analysis of DNA sequences (seminar)

Plant Systematics and Diversity

Current topics in population genetics (seminar)
Introduction to Graduate Studies

Reviewer for journals:

Evolution	Proceedings of the National Acad. of Sciences, U.S.A.
Systematic Botany	American Journal of Botany
Conservation Biology	Biological Journal of the Linnean Society
American Naturalist	Canadian Journal of Botany
Molecular Ecology	Molecular Biology and Evolution
Sexual Plant Reproduction	Plant Species Biology
Genetica	Botanical Journal of the Linnean Society
BMC Genomics	BMC Evolutionary Biology

Associate Editor:

Journal of Systematics and Evolution
Frontiers in Plant Science

Service Duties (Current in bold):

USU Associate Head of Department, Biology. 2014 – 2019
Education committee of Botanical Society of American
Member International Union for Conservation of Nature (IUCN) Species Survival Commission,
Galapagos Plant Specialist Group
Public Library of Science, Currents: Tree of Life: Board member
Current Tenure & Promotion or post tenure review: 6 committees
Utah State University Safety Committee
USU College of Science Safety Committee
USU Department of Biology Safety Committee (Chair)
USU Institutional Biosafety Committee
Graduate programs committee: 1994 – 1999; 2010- 2013(co-chair, 2011-2013)
Past Tenure & Promotion or post tenure review: 14 committees
USU Central T&P Committee (2011-2012)
Department Head Search committee (2010-2011)
Chair, Search Committee, Evolutionary Biologist, Dept. Biology 2005
USU High Performance Computing Taskforce 2005 (Chair of USU Needs subcommittee)
Several Tenure and Promotion committees (1996 – present)
Chair, Tenure and Promotion committee for Michael Pfrender (2001 – present)
Search Committee, Spatial Ecologist, Dept. Biology (2003-2004)
USU Genomics Task Force, 2001.
Search Committee, Quantitative Geneticist, Dept Biology (2000-01)
Search Committee, Ecosystem Ecologist, Dept. Biology, 1998-1999
Chair, Search Committee, Quantitative Geneticist, Dept Biology (1996-97)
Graduate Programs Committee, Department of Biology, 1995 – 1999, 2010 - present
Health Professions Evaluation Committee, 1996-
Search Committee, Department of Biology, for Insect Systematist (1995-96)
Search Committee, Department of Fisheries and Wildlife, for Conservation Geneticist (1993,94)
Molecular Biology Program Student Travel Awards Committee (1992-1993)
Student Advisory Council, Washington State University, 1988-1990.
Botany Graduate Student Representative to Faculty, Washington State University, 1988-1989.
Botany Graduate Student Organization, President, University of Kansas, 1985-1986.