

CURRICULUM VITAE

Dr. Andrew L. Hipp

The Morton Arboretum [REDACTED]
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EDUCATION

Ph.D. in Botany, University of Wisconsin–Madison, 2004

B.A. in English, University of Wisconsin–Madison, 1994: Creative Writing emphasis

Wildlands Studies Program, San Francisco State University, Fall 1991

TEACHING AND SELECTED OUTREACH

Courses developed, taught as lecturer (= field course)*

University of Chicago

- *Reconstructing the Tree of Life* (2019, 2021, 2023)
Upper level undergrad / grad course, co-instructor with Richard Ree
- *Phylogenetic Comparative Methods* (2010, 2012, 2016, 2018, 2021)
Graduate seminar (co-instructor with Richard Ree in 2010, 2012, 2021)

UW–Madison

- * *Vascular Flora of Wisconsin* (2003); Upper level undergrad / grad course
- * *Landscape Interpretation* (2001); Upper level undergrad / grad course
Co-instructor with Tania Schoenagel
- * *Wetland and Aquatic Plants* (2000); Upper level undergrad / grad course

UW–Milwaukee:

- * *Aquatic Plant Biology* (1999); Upper level undergrad / grad course

Field workshops

The Morton Arboretum

- * *Field Identification of Sedges* (2-day workshop; 2013, 2015, 2017, 2019, 2021)
- * *Field Identification of Oaks* (1-day workshop; 2014)

The Festival of Nature (Door Co, WI: 2017, 2018, 2021)

- * *Flora of Ridges Sanctuary* (1/2-day workshop)
- * *Get to Know Wisconsin Sedges* (1/2-day workshop)

Humboldt Field Research Institute (Steuben, Maine; 2009, 2011)

- * *Applied Field Identification of Sedges and Rushes* (5-day workshop; 2009, 2011)

Courses taught as teaching assistant

UW–Madison

- *Vascular Flora of Wisconsin* (Botany 401; Kenneth Sytsma, 2002)
- *Evolution, Ecology, and Genetics* (Biocore 301 / 302; Team-taught, 2001)
- *Plant Anatomy* (Botany 300; Ray Evert, 1999, 2000)

Additional activities in informal science education and communication

2021 Co-host, author-conversation: Jason Allen-Paisant, *Thinking with Trees* (The Morton Arboretum)

2019 Co-host, author-conversation: Richard Powers, *The Overstory* (The Morton Arboretum)

2014 Exhibit evaluator: *Wilderdeck UrbGarden* (Madison Children's Museum)

2013 Exhibit evaluator: *Building Big Ideas STEM Initiative* (Madison Children's Museum)

2011 Exhibit evaluator: *Rooftop Ramble Rooftop Garden* (Madison Children's Museum)

SELECTED FELLOWSHIPS AND AWARDS

2023	Fulbright Specialist , Georg-August-Universität Göttingen, Germany
2018	Distinguished Informal Science Education Award , National Science Teachers Association (NSTA)
2018	Special Service Award , The International Oak Society
2013–14	Fulbright Scholar , INRAE-BioGeCo / University of Bordeaux, France
2004–2016	Honorary Research Fellow , UW–Madison Department of Botany
2004	Worldwide Universities Network (WUN) Graduate Research Fellow , School of Computing at the University of Leeds (U.K.)
2003–2004	Botany Department Research Fellow , UW–Madison Department of Botany
2002	Innovation in Teaching Award , UW–Madison College of Letters and Science
1998–1999	University Research Fellow , UW–Madison Department of Botany

PROFESSIONAL APPOINTMENTS

2019–present	Director of the Herbarium and Senior Scientist in Plant Systematics , The Morton Arboretum
2012–2019	Senior Scientist in Plant Systematics and Herbarium Curator , The Morton Arboretum
2004–2012	Plant Systematist and Herbarium Curator , The Morton Arboretum
2008–present	Lecturer , Committee on Evolutionary Biology, University of Chicago
2004–present	Research Associate , The Field Museum of Natural History
1999–2003	Graduate Assistant , UW–Madison Department of Botany
1994–1999	Naturalist , Preschool of the Arts, Madison
1994–1998	Ranger , UW–Madison Arboretum
1993–2004	Naturalist , UW–Madison Arboretum

SELECTED GRANTS AND AWARDS, CURRENT POSITION ONLY (* = ACTIVE)

- *2021–26. NSF-DEB award #2129281: \$808,747 [\$2M total]: Morton Arboretum [Hipp] lead, with Duke U., U. MN, U. AZ, U. OK, Ft Collins Science Center, Institute of Botany – Chinese Academy of Sciences, and South China Botanical Garden – Chinese Academy of Sciences
Dimensions US–China: Collaborative Research: Consequences of diversity in Asian and American tree syngameons for functional variation, adaptation and symbiont biodiversity
- *2020–24. NSF-DEB award #1935074: \$797,443 [co-PI; with PI Midgley (at Morton Arboretum)]
Collaborative Research: Rules of Life: Impacts of plants and communities on soil microbial composition and function across phylogenetic scales
- 2014–21. NSF-DEB award #1354551: \$646,084 [\$962,966 total; collaborating PI]
Testing the effects of phylogenetic diversity on restoration outcomes in tallgrass prairie
- 2015–20. USDA, U.S. National Arboretum (\$86,440, cooperative agreement with Whittemore Lab).
White oak genetic diversity.
- 2014–18. NSF-DEB award #1405396: \$167,000 [collaborating PI]
Digitization TCN: Documenting the Occurrence through Space & Time of Aquatic Non-indigenous Fish, Mollusks, Algae, & Plants Threatening North America's Great Lakes
- 2013–17. NSF-DEB award #1255901: \$330,000 [\$765,000 total]: Morton Arboretum [Hipp] lead, with McGill University [Waterway] as co-PI, Washington State U. [Roalson] as collaborating institution. *Revising the classification of the temperate zone's largest angiosperm genus (Carex, Cyperaceae), and training the next generation of sedge systematists*
<http://systematics.mortonarb.org/cariceae/>

- 2012–16. NSF-DEB award #1146488: \$139,000 [\$670,000 total]: Morton Arboretum [Hipp] lead, with Duke U. [Manos], U. of MN [Cavender-Bares], and Notre Dame [Romero-Severson]. *Phylogeny of the New World oaks: Diversification of an ecologically important clade across the tropical-temperate divide*
- 2010–15. USDA, U.S. National Arboretum (\$30,500, cooperative agreement with Whittemore Lab). *Elm genetic diversity*.
2011. BioSynC / Encyclopedia of Life (\$40,000; Synthesis meeting proposal, Morton Arboretum lead, ca. 30 international participants). *Coordinating work on regional and global diversity of Carex (Cyperaceae), the largest angiosperm genus of the temperate zone*.
- 2008–10. Institute for Museum and Library Services award # MA-05-08-0125-08: \$150,000 + \$222,034 match. *Integrated Plant Collections Database*. <http://quercus.mortonarb.org>
- 2008–12. NSF-DEB award #0743157: \$299,250 [\$583,000 total; collaborating PI] *Phylogenetic Patterns and Processes of Diversification in Carex subgenus Vignea (Cyperaceae)*
2008. NESCent Short-term Sabbatical / Visiting Scholar Award
2007. Michigan Botanical Club Hanes Fund grant (\$11,200) *Taxonomy and Hybridization in Michigan Black Oak and Hill's Oak*
2007. Diversity Inventory Group Grant: *Field Guide to Wisconsin Sedges* (\$2,000)
2007. USDA Forest Service and USFWS, through Chicago Wilderness (\$14,900) *How Far is Too Far? Genetic Consequences of Seed Provenance Decisions in Sedges*
2006. Fish and Wildlife Foundation, through Midewin Tallgrass Prairie Fund (\$14,500) *Evaluating Provenance Limits in Prairie Sedges: Development of microsatellite markers in Carex scoparia*
2006. Institute for Museum and Library Services (\$150,000; herbarium portion: \$10,500) *Vegetation and Land-use History of Arboretum Woodlands*
2005. American Philosophical Society Research Grant (\$6,000) *Molecular investigations of taxonomy and hybridization in Hill's Oak and relatives*

BOOKS AND BOOK CHAPTERS

1. Hipp AL. In production – 2024. *Oak origins: From Acorns to Species and the Tree of Life*. University of Chicago Press.
2. Hipp AL, Glasenhardt M-C, Bowles ML, Garner M, Scharenbroch BC, Williams EW, Byrne A, Ernst AR, Grigg E, Midgley MG, et al. 2018. Effects of phylogenetic diversity and phylogenetic identity in a restoration ecology experiment. In: Scherson R, Faith DP, eds. *Phylogeny-based Biodiversity Assessments for Conservation*. Springer International.
3. Denk T, Grimm GW, Manos PS, Deng M, Hipp AL. 2017. An Updated Infrageneric Classification of the Oaks: Review of Previous Taxonomic Schemes and Synthesis of Evolutionary Patterns. In: Gil-Pelegrín E, Peguero-Pina J-J, Sancho-Knapik D (eds.): *Tree Physiology. Oaks Physiological Ecology. Exploring the Functional Diversity of Genus Quercus L.*, pp. 13–38. Springer, Cham.
4. Ree, R.H. and Hipp AL. 2015. Inferring phylogenetic history from restriction site associated DNA (RADseq). In: Elvira Hoerandl and Marc Appelhans (eds.): *Next Generation Sequencing in Plant Systematics*, pp 181–204. Koeltz Scientific Books, Koenigstein.
5. Hipp AL, K.S. Chung, and A.M. Escudero. 2013 (invited article). *Holocentric chromosomes*. In: Maloy, S. and K. Hughes (eds) *Encyclopedia of Genetics, 2nd Edition*, Volume 3, pp. 499–501. Elsevier, New York.
6. Zika, P., Hipp AL, and J. Mastrogiuseppe. 2012. *Carex*. In *The Jepson Flora: A Manual to the Vascular Plants of California* (Baldwin, B.G., S. Boyd, D.J. Keil, R.W. Patterson, T.J. Rosatti, and D.H. Wilken, eds), pp. 1308–1338. University of California Press, Berkeley.

7. Hipp AL, with illustrations by Davis RD., maps and appendices by T.S. Cochrane and M. Black. 2008. *Field Guide to Wisconsin Sedges: An Introduction to the Genus Carex (Cyperaceae)*. University of Wisconsin Press, Madison. 280 pp.
8. Hipp AL. 2004. *Spring Woodland Wildflowers of the University of Wisconsin – Madison Arboretum*. University of Wisconsin–Madison Arboretum, WI. 70 pp.

JOURNAL ARTICLES

1. Grant J, Murphy P, Barak RS, Hahn M, Leaveans E, Hipp AL. Accepted pending revision. Collaboration to cultivate the practices of science: Local research as a gateway to biodiversity science. *The American Biology Teacher*.
2. Martín-Sánchez R, Peguero-Pina JJ, Alonso-Forn D, López-Ballesteros A, Ferrio JP, Hipp AL, Sancho-Knapik D, Gil-Pelegrín E. Accepted pending revision. Leaf morphology in genus *Quercus* responds to climate but is modulated by phylogeny. *Annals of Forest Science*.
3. Tribble CM, Márquez-Corro JI, May MR, Hipp AL, Escudero M, Zenil-Ferguson R. In review. Detecting shifts in the mode of chromosomal speciation across the cosmopolitan plant lineage *Carex*. *bioRxiv* <https://doi.org/10.1101/2023.09.05.556433>.
4. Hipp AL, Lazic D. 2024. Ancient tree genomes for old questions. *Molecular Ecology* 33: e17259.
5. Ernst A, Barak R, Glasenhardt M-C, Kramer A, Larkin D, Marx H, Poulton Kamakura R, Hipp AL. 2023. Neither phylogenetic nor functional diversity increase invasion resistance in an experimental grassland restoration. *Journal of Applied Ecology* 60: 2652–2664
6. Barak RS, Karimi N, Glasenhardt M-C, Larkin DJ, Williams EW, Hipp AL. 2023. Phylogenetically and functionally diverse species mixes beget diverse experimental prairies, whether from seeds or plugs. *Restoration Ecology* 31: e13737.
7. Bruns E, Westwood M, Griffith MP, Hipp A, Lobdell M, Meyer A, Rollinson C, Still S, Worcester L, Hoban S. 2023. Quantifying Endangerment Value: a Promising Tool to Support Curation Decisions. *Sibbaldia: The International Journal of Botanic Garden Horticulture* 22: 1–24.
8. Denk T, Grimm GW, Hipp AL, Bouchal JM, Schulze E-D, Simeone MC. 2023. Niche evolution in a northern temperate tree lineage: biogeographical legacies in cork oaks (*Quercus* section *Cerris*). *Annals of Botany* 131: 769–787.
9. Elliott TL, Larridon I, Barrett RL, Bruhl JJ, Costa SM, Escudero M, Hipp AL, Jiménez-Mejías P, Kirschner J, Luceño M, et al. 2023. Addressing inconsistencies in Cyperaceae and Juncaceae taxonomy: Comment on Brožová et al. *Molecular Phylogenetics and Evolution* 179: 107665.
10. Escudero M, Marques A, Lucek K, Hipp AL. 2023. Genomic hotspots of chromosome rearrangements explain conserved synteny despite high rates of chromosome evolution in a holocentric lineage. *Molecular Ecology* <https://doi.org/10.1111/mec.17086>.
11. Gardner EM, Bruun-Lund S, Niissalo M, Chantarasuwan B, Clement WL, Geri C, Harrison RD, Hipp AL, Holvoet M, Khew G, Kjellberg F, Liao S, Pederneiras LC, Peng Y-Q, Pereira JT, Phillipps Q, Ahmad Puad AS, Rasplus J-Y, Sang J, Juul Schou S, Velautham E, Weiblen GD, Zerega NJC, Zhang Q, Zhang Z, Baraloto B, Rønsted N. 2023. Echoes of ancient introgression punctuate stable genomic lineages in the evolution of figs. *PNAS* 120: e2222035120.
12. Kaproth MA, Fredericksen BW, González-Rodríguez A, Hipp AL, Cavender-Bares J. 2023. Drought response strategies are coupled with leaf habit in 35 evergreen and deciduous oak (*Quercus*) species across a climatic gradient in the Americas. *New Phytologist* 239: 888–904.

13. Larkin DJ, Glasenhardt M-C, Williams EW, Karimi N, Barak RS, Leavens E, Hipp AL. 2023. Evolutionary history shapes grassland productivity through opposing effects on complementarity and selection. *Ecology* 104: e4129.
14. Wu Y, Hipp AL, Fargo G, Stith N, Ricklefs RE. 2023. Improving Species Delimitation for Effective Conservation: A Case Study in the Endemic Maple-leaf Oak (*Quercus acerifolia*). *New Phytologist* 238: 1278–1293.
15. Ernst AR, Barak RS, Hipp AL, Kramer AT, Marx HE, Larkin DJ. 2022. The invasion paradox dissolves when using phylogenetic and temporal perspectives. *Journal of Ecology* 110: 443–456.
16. Gailing O, Hipp AL, Plomion C, Carlson JE. 2022. Oak Population Genomics. In: Rajora OP, ed. *Population Genomics: Forest Trees*. Cham: Springer International Publishing.
17. Jiménez-Mejías P, Hipp AL, Roalson EH, Benítez-Benítez C, Naczi RFC, Martín-Bravo S, Reznicek AA. 2022. Four new sectional names in *Carex* L. (Cyperaceae). *Kew Bulletin* 77: 799–802.
18. Karimi N, Larkin DJ, Glasenhardt M-C, Barak RS, Williams EW, Ernst AR, Hipp AL. 2022. Selection on convergent functional traits drives compositional divergence in early succession of a tallgrass prairie restoration experiment. *Journal of Ecology* 110: 415–429.
19. Morales-Saldaña S, Valencia-Ávalos S, Oyama K, Sánchez ET, Hipp AL, González-Rodríguez A. 2022. Even more oak species in Mexico? Genetic structure and morphological differentiation support the presence of at least two specific entities within *Quercus laeta*. *Journal of Systematics and Evolution* 60: 1124–1139.
20. Otero A, Vargas P, Fernández-Mazuecos M, Jiménez-Mejías P, Valcárcel V, Villa-Machío I, Hipp AL. 2022. A snapshot of progenitor–derivative speciation in *Iberodes* (Boraginaceae). *Molecular Ecology* 31: 3192–3209.
21. Tang T, Zhang N, Bongers FJ, Staab M, Schuldt A, Fornoff F, Lin H, Cavender-Bares J, Hipp AL, Li S, et al. 2022. Tree species and genetic diversity increase productivity via functional diversity and trophic feedbacks. *eLife* 11: e78703.
22. Benítez-Benítez C, Martín-Bravo S, BJORÅ CS, Gebauer S, Hipp AL, Hoffmann MH, Luceño M, Pedersen TM, Reznicek A, Roalson E, et al. 2021. Geographical vs. ecological diversification in *Carex* section *Phacocystis* (Cyperaceae): Patterns hidden behind a twisted taxonomy. *Journal of Systematics and Evolution* 59: 642–667.
23. Desmond SC, Garner M, Flannery S, Whitemore AT, Hipp AL. 2021. Leaf shape and size variation in bur oaks: An empirical study and simulation of sampling strategies. *American Journal of Botany* 108: 1540–1554.
24. Gardner EM, Garner M, Cowan R, Dodsworth S, Epiawalage N, Arifiani D, Sahromi, Baker WJ, Forest F, Maurin O, Zerega NJC, Monro AK, Hipp AL. 2021. Repeated parallel losses of inflexed stamens in Moraceae: Phylogenomics and generic revision of the tribe Moreae and the reinstatement of the tribe Olmedieae (Moraceae). *TAXON* 70: 946–988.
25. Global *Carex* Group, Roalson EH, Jiménez-Mejías P, Hipp AL, Benítez-Benítez C, Bruederle LP, Chung K-S, Escudero M, Ford BA, Ford K, et al. 2021. A framework infrageneric classification of *Carex* (Cyperaceae) and its organizing principles. *Journal of Systematics and Evolution* 59: 726–762.

26. Larridon I, Zuntini AR, L  veill  -Bourret   , Barrett RL, Starr JR, Muasya AM, Villaverde T, Bauters K, Brewer GE, Bruhl JJ, et al. 2021. A new classification of Cyperaceae (Poales) supported by phylogenomic data. *Journal of Systematics and Evolution* 59: 852–895.
27. Lazic D, Hipp AL, Carlson JE, Gailing O. 2021. Use of Genomic Resources to Assess Adaptive Divergence and Introgression in Oaks. *Forests* 12: 690.
28. Manos PS, Hipp AL. 2021. An Updated Infrageneric Classification of the North American Oaks (*Quercus* Subgenus *Quercus*): Review of the Contribution of Phylogenomic Data to Biogeography and Species Diversity. *Forests* 12: 786.
29. M  rquez-Corro JI, Mart  n-Bravo S, Jim  nez-Mej  as P, Hipp AL, Spalink D, Naczi RFC, Roalson EH, Luce  o M, Escudero M. 2021. Macroevolutionary insights into sedges (*Carex*: Cyperaceae): The effects of rapid chromosome number evolution on lineage diversification. *Journal of Systematics and Evolution* 59: 776–790.
30. McCormack ML, Kaproth MA, Cavender-Bares J, Carlson E, Hipp AL, Han Y, Kennedy PG. 2021. Climate and phylogenetic history structure morphological and architectural trait variation among fine-root orders. *New Phytologist* 228: 1824–1834.
31. Pender JE, Hipp AL, Hahn M, Starr JR. 2021. Trait evolution rates shape continental patterns of species richness in North America’s most diverse angiosperm genus (*Carex*, Cyperaceae). *Journal of Systematics and Evolution* 59: 763–775.
32. Reznicek AA, Gonz  lez-Elizondo M del S, Hahn M, Garner M, Hipp AL. 2021. Monograph of *Carex* section *Schiedeanae* (Cyperaceae): Unexpected taxonomic and ecological diversity in a Mexican sedge clade. *Journal of Systematics and Evolution* 59: 698–725.
33. Spence ES, Fant JB, Gailing O, Griffith MP, Havens K, Hipp AL, Kadav P, Kramer A, Thompson P, Toppila R, et al. 2021. Comparing Genetic Diversity in Three Threatened Oaks. *Forests* 12: 561.
34. Villaverde T, Maguilla E, Luce  o M, Hipp AL. 2021. Assessing the sensitivity of divergence time estimates to locus sampling, calibration points, and model priors in a RAD-seq phylogeny of *Carex* section *Schoenoxiphium*. *Journal of Systematics and Evolution* 59: 687–697.
35. Whittemore AT, Fuller RS, Brown BH, Hahn M, Gog L, Weber JA, Hipp AL. 2021. Phylogeny, Biogeography, and Classification of the Elms (*Ulmus*). *Systematic Botany* 46: 711–727.
36. Williams EW, Zeldin J, Semski WR, Hipp AL, Larkin DJ. 2021. Phylogenetic distance and resource availability mediate direction and strength of plant interactions in a competition experiment. *Oecologia* 197: 459–469.
37. Crawl, A.A., Manos, P.S., McVay, J.D., Lemmon, A.R., Lemmon, E.M., and Hipp AL. 2020. Uncovering the genomic signature of ancient introgression between white oak lineages (*Quercus*). *New Phytologist* 226: 1158–1170.
38. Hipp AL, Manos PS, Hahn M, Avishai M, Bod  n  s C, Cavender-Bares J, Crawl AA, Deng M, Denk T, Fitz-Gibbon S, et al. 2020. Genomic landscape of the global oak phylogeny. *New Phytologist* 226: 1198–1212.
39. Hoban S, Callicrate T, Clark J, Deans S, Dosmann M, Fant J, Gailing O, Havens K, Hipp AL, Kadav P, et al. 2020. Taxonomic similarity does not predict necessary sample size for ex situ conservation: a comparison among five genera. *Proceedings of the Royal Society B: Biological Sciences* 287: 20200102.

40. Kattge J, Bönisch G, Díaz S, Lavorel S, Prentice IC, Leadley P, Tautenhahn S, Werner GDA, Aakala T, Abedi M, *et al.* 2020. TRY plant trait database – enhanced coverage and open access. *Global Change Biology* 26: 119–188.
41. Kremer A, Hipp AL. 2020. Oaks: an evolutionary success story. *New Phytologist* 226: 987–1011.
42. LeRoy CJ, Hipp AL, Lueders K, Follstad Shah JJ, Kominoski JS, Ardón M, Dodds WK, Gessner MO, Griffiths NA, Lecerf A, *et al.* 2020. Plant phylogenetic history explains in-stream decomposition at a global scale. *Journal of Ecology* 108: 17–35
43. Pearse IS, LaMontagne JM, Lordon M, Hipp AL, Koenig WD. 2020. Biogeography and phylogeny of masting: do global patterns fit functional hypotheses? *New Phytologist* 227: 1557–1567.
44. Ramírez-Valiente JA, López R, Hipp AL, Aranda I. 2020. Correlated evolution of morphology, gas exchange, growth rates and hydraulics as a response to precipitation and temperature regimes in oaks (*Quercus*). *New Phytologist* 227: 794–809.
45. Scher CL, Karimi N, Glasenhardt M-C, Tuffin A, Cannon CH, Scharenbroch BC, Hipp AL. 2020. Application of remote sensing technology to estimate productivity and assess phylogenetic heritability. *Applications in Plant Sciences* 8: e11401.
46. Villaverde T, Jiménez-Mejías P, Luceño M, Waterway MJ, Kim S, Lee B, Rincón-Barrado M, Hahn M, Maguilla E, Roalson EH, *et al.* 2020. A new classification of *Carex* (Cyperaceae) subgenera supported by a HybSeq backbone phylogenetic tree. *Botanical Journal of the Linnean Society* 194: 141–163.
47. Escudero M, Lovit M, Brown BH, Hipp AL. 2019. Rapid plant speciation associated with the last glacial period: reproductive isolation and genetic drift in sedges. *Botanical Journal of the Linnean Society* 190: 303–314.
48. Hipp AL, Whitemore AT, Garner M, Hahn M, Fitzek E, Guichoux E, Cavender-Bares J, Gugger PF, Manos PS, Pearse IS, *et al.* 2019. Genomic identity of white oak species in an eastern North American syngameon. *Annals of the Missouri Botanical Garden* 104.
49. Jiang X-L, Hipp AL, Deng M, Su T, Zhou Z-K, Yan M-X. 2019. East Asian origins of European holly oaks via the Tibet-Himalayas. *Journal of Biogeography* doi:10.1111/jbi.13654.
50. Larridon I, Villaverde T, Zuntini AR, Pokorny L, Brewer GE, Epiawalage N, Fairlie I, Hahn M, Kim J, Maguilla E, *et al.* 2019. Tackling rapid radiations with targeted sequencing. *Frontiers in Plant Science* 10.
51. Martín-Bravo S, Jiménez-Mejías P, Villaverde T, Escudero M, Hahn M, Spalink D, Roalson EH, Hipp AL, Benítez-Benítez C, Bruederle LP, *et al.* 2019. A tale of worldwide success: Behind the scenes of *Carex* (Cyperaceae) biogeography and diversification. *Journal of Systematics and Evolution* 57: 695–718.
52. Pender JE, Hipp AL, Hahn M, Kartesz J, Nishino M, Starr JR. 2019. How sensitive are climatic niche inferences to distribution data sampling? A comparison of Biota of North America Program (BONAP) and Global Biodiversity Information Facility (GBIF) datasets. *Ecological Informatics*: 100991.
53. Strack B, Ullah Z, Hipp AL, Amir R, Hayat MQ. 2019. Pattern of Diversity among Pistillate Scales of the Western Himalayan *Carex* L. (Cyperaceae): Micromorphological and Molecular Inferences. *Int. J. Agric. Biol.* 21: 659–666.

54. Uzma, Jiménez-Mejías P, Amir R, Hayat MQ, Hipp AL. 2019. Timing and ecological priority shaped the diversification of sedges in the Himalayas. *PeerJ* 7: e6792.
55. Yan M, Liu R, Li Y, Hipp AL, Deng M, Xiong Y. 2019. Ancient events and climate adaptive capacity shaped distinct chloroplast genetic structure in the oak lineages. *BMC Evolutionary Biology* 19: 202.
56. Williams, E.W., Barak, R.S., Kramer, M., Hipp AL, and Larkin, D.J. 2018. In tallgrass prairie restorations, relatedness influences neighborhood-scale plant invasion while resource availability influences site-scale invasion. *Basic and Applied Ecology* 33: 37–48.
57. Cavender-Bares J, Kothari S, Meireles JE, Manos PS, Kaproth M, Hipp AL. 2018. The role of diversification in community assembly of the oaks (*Quercus* L.) across the continental U.S. *American Journal of Botany* 105: 565-586.
58. Escudero AME, Hahn M, Hipp AL. 2018. RAD-seq linkage mapping and patterns of segregation distortion in sedges: meiosis as a driver of karyotypic evolution in organisms with holocentric chromosomes. *Journal of Evolutionary Biology* 31: 833-843.
59. Fitzek E, Delcamp A, Guichoux E, Hahn M, Lobdell M, Hipp AL. 2018. A nuclear DNA barcode for eastern North American oaks and application to a study of hybridization in an Arboretum setting. *Ecology and Evolution* 8: 5837–5851.
60. Deng M, Jiang X-L, Hipp AL, Manos PS, Hahn M. 2018. Phylogeny and biogeography of East Asian evergreen oaks (*Quercus* section *Cyclobalanopsis*; Fagaceae): Insights into the Cenozoic history of evergreen broad-leaved forests in subtropical Asia. *Molecular Phylogenetics and Evolution* 119: 170–181.
61. Hipp AL, Manos PS, Gonzalez-Rodriguez A, Hahn M, Kaproth M, McVay JD, Valencia-A S, Cavender-Bares J. 2018. Sympatric parallel diversification of major oak clades in the Americas and the origins of Mexican oak diversity. *New Phytologist* 217: 439–452.
62. Spalink D, Pender J, Escudero M, Hipp AL, Roalson EH, Starr J, Waterway MJ, Bohs L, Sytsma KJ. 2018. The spatial structure of phylogenetic and functional diversity in the United States and Canada: an example using sedges (Cyperaceae). *Journal of Systematics and Evolution* 56: 449–465.
63. Barak RS, Williams EW, Hipp AL, Bowles ML, Carr GM, Sherman R, Larkin DJ. 2017. Restored tallgrass prairies have reduced phylogenetic diversity compared with remnants. *Journal of Applied Ecology* 54: 1080–1090.
64. Barres L, Galbany-Casals M, Hipp AL, et al. 2017. Phylogeography and character evolution of *Euphorbia* sect. *Aphyllis* subsect. *Macaronesicae* (Euphorbiaceae). *TAXON* 66: 324–342.
65. Dolan RW, Hipp AL, and Aronson M. 2017. Floristic response to urbanization: Filtering of the bioregional flora in Indianapolis, Indiana, USA. *American Journal of Botany* 104: 1179–1187.
66. Fitz-Gibbon S, Hipp AL, Pham KK, et al. 2017. Phylogenomic inferences from reference-mapped and de novo assembled short-read sequence data using RADseq sequencing of California white oaks (*Quercus* subgenus *Quercus*). *Genome* 60: 743–755.
67. Hauser DA, Keuter A, McVay JD, Hipp AL, and Manos PS. 2017. The evolution and diversification of the red oaks of the California Floristic Province (*Quercus* section *Lobatae*, series *Agriifoliae*). *American Journal of Botany* 104: 1581–1595.

68. Maguilla E, Escudero M, Hipp AL, and Luceno M. 2017. Allopatric speciation despite historical gene flow: divergence and hybridization in *Carex furva* and *C. lucennoiberica* (Cyperaceae) inferred from plastid and nuclear RAD-seq data. *Molecular Ecology* 26: 5646–5662.
69. McVay JD, Hipp AL & Manos PS. 2017. A genetic legacy of introgression confounds phylogeny and biogeography in oaks. *Proc. R. Soc. B* 284: 20170300.
70. McVay JD, Hauser D, Hipp AL, and Manos PS. 2017. Phylogenomics reveals a complex evolutionary history of lobed-leaf white oaks in Western North America. *Genome* 60: 733–742.
71. Pham KK, Hipp AL, Manos PS, et al. 2017. A Time and a Place for Everything: Phylogenetic history and geography as joint predictors of oak plastome phylogeny. *Genome* 60: 720–732.
72. Barak, R.S., Hipp AL, J. Cavender-Bares, W.D. Pearse, S.C. Hotchkiss, E.A. Lynch, J.C. Callaway, R. Calcote, and D.J. Larkin. 2016. Taking the long view: Integrated recorded, archeological, paleoecological, and evolutionary data into ecological restoration. *International Journal of Plant Sciences* 177: 90–102.
73. Escudero, M., M. Hahn. B.H. Brown, K. Lueders, and Hipp AL. 2016. Chromosomal rearrangements in holocentric organisms lead to reproductive isolation by hybrid dysfunction: The correlation between karyotype rearrangements and germination rates in sedges. *American Journal of Botany* 103: 1529–1536.
74. Escudero, M., Márquez-Corro, J.I., & Hipp AL. 2016. The phylogenetic origins and evolutionary history of holocentric chromosomes. *Systematic Botany* 41: 580–585.
75. Global *Carex* Group*. 2016. Megaphylogenetic Specimen-level Approaches to the *Carex* (Cyperaceae) Phylogeny Using ITS, ETS, and matK Sequences: Implications for Classification. *Systematic Botany* 41: 500–518. * = co-corresponding and co-senior author.
76. Global *Carex* Group*. 2016. Specimens at the Center: An Informatics Workflow and Toolkit for Specimen-level analysis of Public DNA database data. *Systematic Botany* 41: 529–539. * = corresponding and senior author.
77. Hahn, M.*, Budaitis, B., Grant, J., Wetta, D., Murphy, P., Cotton, A., Pham, K., and Hipp AL* 2016. Training the Next Generation of Sedge Taxonomists: School Kids Tackle Sedge Morphological Diversity. *Systematic Botany* 41: 540–551.
78. Larkin, D.J., S.J. Jacobi, Hipp AL, and A. Kramer. 2016. Keeping all the PIECES: Phylogenetically Informed Ex Situ Conservation of Endangered Species. *PLoS ONE* 11: e0156973.
79. Sullivan, A.R., S.A. Owusu, J.A. Weber, Hipp AL, and O. Gailing. 2016. Hybridization and divergence in multispecies oak (*Quercus*) communities. *Botanical Journal of the Linnean Society* 181: 99–114.
80. Cavender-Bares, J., Gonzalez-Rodriguez, A., Eaton, D.A.R., Hipp, A., Buelke, A., and P. Manos. 2015. Phylogeny and biogeography of the American live oaks (*Quercus* subsection *Virentes*): A genomic and population genetic approach. *Molecular Ecology* 24: 3668–3687.
81. Eaton, D.A.R., Hipp AL, A. Gonzalez-Rodriguez, J. Cavender-Bares. 2015. Introgression obscures and reveals historical relationships among the American live oaks. *Evolution* 69: 2587–2601.
82. Hipp AL, D.J. Larkin, R.S. Barak, M.L. Bowles, M.W. Cadotte, S.K. Jacobi, E. Lonsdorf, B.C. Scharenbroch, E. Williams, and E. Weiher. 2015. On the Nature of Things: Phylogeny in the Service of Ecological Restoration. *American Journal of Botany* 102(5): 497–498.

83. Larkin, D.J., Hipp AL, J. Kattge, W. Prescott, R.K. Tonietto, S.K. Jacobi, M.L. Bowles. 2015. Phylogenetic signals of plant community structure, change, and fire management in tallgrass prairie remnants. *Journal of Applied Ecology* 52: 1638–1648.
84. Maguilla, E., M. Escudero, M.J. Waterway, Hipp AL, and M. Luceno. 2015. Phylogeny, systematics and trait evolution of *Carex* section *Glareosae*. *American Journal of Botany* 102: 1128–1144.
85. Molina, A, K.-S. Chung, Hipp AL. 2015. Molecular and morphological perspectives on the circumscription of *Carex* section *Heleoglochin* (Cyperaceae). *Plant Systematics and Evolution* 301: 2419–243.
86. Owusu, S.A., A.R. Sullivan, J.A. Weber, Hipp AL and O. Gailing. 2015. Taxonomic relationships and gene flow in four North American *Quercus* species. *Systematic Botany* 40:510–21.
87. Global Carex Group. 2015. Making *Carex* monophyletic: a new broader circumscription. *Botanical Journal of the Linnean Society* 179: 1–42.
88. Zhang, R., Hipp AL, O. Gailing. 2015. Sharing of chloroplast haplotypes among red oak species suggests interspecific gene flow between neighboring populations. *Botany* 93: 691–700.
89. Begley-Miller D.R., T.P. Rooney, Hipp AL, B.H. Brown, and M. Hahn. 2014. White-tailed deer are a biotic filter during community assembly, reducing species and phylogenetic diversity. *AOB PLANTS* 6: plu030.
90. Deng, M, Hipp AL, Yi-Gang Song, Qian-Sheng Li, A. Coombes, and A. Cotton. 2014. Leaf epidermal features of *Quercus* subgenus *Cyclobalanopsis* (Fagaceae) and their systematic significance. *Botanical Journal of the Linnaean Society* 176: 224–259.
91. Escudero, M., D.A.R. Eaton, M. Hahn, and Hipp AL. 2014. Genotyping-by-sequencing as a tool to infer phylogeny and ancestral hybridization: A case study in *Carex* (Cyperaceae). *Molecular Phylogenetics and Evolution* 79: 359–367.
92. Escudero, M., S. M. Bravo, I. Mayrose, M. Fernandez-Mazuecos, O. Fiz-Palacios, Hipp AL, M. Pimentel, P. Jimenez-Mejias, V. Valcarcel, P. Vargas, and M. Luceño. 2014. Karyotypic changes through dysploidy persist longer over evolutionary time than polyploid changes. *PLoS ONE* 9: e85266.
93. Hipp A.L., Eaton D.A.R., Cavender-Bares J., Fitzek E., Nipper R. and Manos P.S. 2014. A framework phylogeny of the American oak clade based on sequenced RAD data. *PLoS ONE* 9: e93975.
94. Jin X-F, Zhou Y-Y, Hipp A, Jin S-H, Oda J, Ikeda H, Yano O, Nagamasu H. 2014. Nutlet micromorphology of *Carex* section *Rhomboidales* sensu Kükenthal (Cyperaceae) and its systematic implications. *Botanical Journal of the Linnean Society* 175: 123–143.
95. La Sorte, F., M. Aronson, N. Williams, B. Clackson, L. Celesti Grapow, S. Cilliers, R. Dolan, A. Hipp, S. Klotz, I. Kühn, P. Pyšek, S. Siebert, M. Winter. 2014. Beta diversity of urban floras among European and non-European cities. *Global Ecology and Biogeography* 23: 769–779.
96. Pearse, I.S. and Hipp AL. 2014. Native plant diversity increases herbivory to non-natives. *Proceedings of the Royal Society B: Biological Sciences* 281: 20141841.
97. Song, Y, M. Deng, Hipp AL, Q. Li. 2014. Leaf morphological evidence of natural hybridization between two oak species (*Quercus austrocochinchinensis* and *Q. kerrii*) and its implications for conservation management. *European Journal of Forest Research* 134: 139–151.

98. Escudero, M. and Hipp AL. 2013. Shifts in diversification rates and clade ages explain species richness in higher-level sedge taxa (Cyperaceae). *American Journal of Botany* 100: 2403–2411.
99. Escudero, M., J. A. Weber, and Hipp AL. 2013. Species coherence in the face of karyotype diversification in holocentric organisms: the case of a cytogenetically variable sedge (*Carex scoparia*, Cyperaceae). *Annals of Botany* (Lond). 112: 515–526.
100. Chung, K.S., Hipp AL, and E.H. Roalson. 2012. Chromosome number evolves independently of genome size in a clade with non-localized centromeres (*Carex*: Cyperaceae). *Evolution* 66: 2708–2722.
101. Escudero, M., Hipp AL, T.F. Hansen, K.L. Voje, and M. Luceño. 2012. Selection and inertia in the evolution of holocentric chromosomes in sedges (*Carex*, Cyperaceae). *New Phytologist* 195: 237–247.
102. Escudero, M., Hipp AL, M.J. Waterway, and L.M. Valente. 2012. Diversification rates and chromosome evolution in the most diverse angiosperm genus of the temperate zone (*Carex*, Cyperaceae). *Molecular Phylogenetics and Evolution* 64: 650–655.
103. Pearse, I.S. and Hipp AL. 2012. Global patterns of leaf defenses in oaks. *Evolution* 66: 2272–2286.
104. Eastman, J.M., M.E. Alfaro, P. Joyce, Hipp AL, and L.J. Harmon. 2011. A novel comparative method for modeling shifts in the rate of character evolution on trees. *Evolution* 65: 3578–3589.
105. Zika P., Wilson B.L., Hipp A.L. 2011. Proposal to conserve the name *Carex fracta* against *C. amplexans* (Cyperaceae). *TAXON* 60: 906–907
106. Chung, K.S., J.A. Weber, and Hipp AL. 2011. The dynamics of chromosome and genome size variation in a cytogenetically variable sedge (*Carex scoparia* var. *scoparia*, Cyperaceae). *American Journal of Botany* 98: 122–129.
107. Escudero, M., Hipp AL, and M. Luceño. 2010. Karyotype stability and predictors of chromosome number variation in sedges: a study in *Carex* section *Spirostachyae* (Cyperaceae). *Molecular Phylogenetics and Evolution* 57: 353–363.
108. Hipp AL, P.E. Rothrock, R. Whitkus, and J.A. Weber. 2010. Chromosomes tell half of the story: the correlation between karyotype rearrangements and genetic diversity in sedges, a group with holocentric chromosomes. *Molecular Ecology* 19(15): 3124–3138.
109. Hipp AL and M. Escudero. 2010. MATICCE: mapping transitions in continuous character evolution. *Bioinformatics* 26: 132–133.
110. Pearse, I.S. and Hipp AL. 2009. Phylogenetic and trait similarity to a native species predict herbivory on non-native oaks. *Proceedings of the National Academy of Sciences* 106: 18097–18102.
111. Hipp AL, P.E. Rothrock, and E.H. Roalson. 2009. The evolution of chromosome arrangements in *Carex* (Cyperaceae). *The Botanical Review* 75: 96–109.
112. Hipp AL, K.M. Kettenring, K. Feldheim, and J.A. Weber. 2009. Isolation of 11 polymorphic tri- and tetranucleotide microsatellite loci in a North American (*Carex scoparia*: Cyperaceae) and cross-species amplification in three additional *Carex* species. *Molecular Ecology Resources* 9: 625–627.
113. Rothrock, P.E., A.A. Reznicek, and Hipp AL. 2009. Taxonomic study of the *Carex tenera* group. *Systematic Botany* 34: 297–311.
114. Givnish, T.J., K.C. Millam, T.T. Theim, A.R. Mast, T.B. Patterson, Hipp AL, J.M. Henss, J.F. Smith, K.R. Wood, and K.J. Sytsma. 2009. Origin, adaptive radiation, and diversification of the Hawaiian lobeliads (Asterales: Campanulaceae). *Proceedings of the Royal Society of London, Series B* 276: 407–416.
115. Hipp AL. 2008. Phylogeny and patterns of convergence in *Carex* section *Ovales* (Cyperaceae): Evidence from ITS and 5.8S sequences. Chapter 9 (pp. 197–214) in Naczi, R.F.C. and B. Ford (eds), *Sedges: Uses, Diversity, and Systematics of the Cyperaceae*. Monographs in Systematic Botany from the Missouri Botanical Garden 108.

116. Lumbsch, H.T., Hipp AL, P. Divakar, O. Blanco, and A. Crespo. 2008. The role of habitat shift in the diversification of clades and their evolutionary rates: evidence from Parmelioid lichens. *BMC Evolutionary Biology* 8: 257.
117. Hipp AL and J.A. Weber. 2008. Taxonomy of Hill's oak (*Quercus ellipsoidalis* E.J. Hill): Evidence from AFLP data. *Systematic Botany* 33: 148–158.
118. Hipp AL. 2007. Non-Uniform processes of chromosome evolution in sedges (*Carex*: Cyperaceae). *Evolution* 61: 2175–2194.
119. Hipp AL, P.E. Rothrock, A.A. Reznicek, and P.E. Berry. 2007. Changes in chromosome number associated with speciation in sedges: A phylogenetic study in *Carex* section *Ovales* (Cyperaceae) using AFLP data. In: J. T. Columbus, E. A. Friar, J. M. Porter, L. M. Prince, and M. G. Simpson (editors). *Monocots: Comparative biology and evolution—Poales*. Rancho Santa Ana Botanic Garden, Claremont. *Aliso* 23: 193–203.
120. Luo, R., Hipp AL, and B. Larget. 2007. A Bayesian Model of AFLP Marker Evolution and Phylogenetic Inference. *Statistical Applications in Genetics and Molecular Biology* 6(1), article 11: 1–30.
121. Reznicek, A.A., Hipp AL, and M. Socorro González-Elizondo. 2007. A new species of *Carex* section *Ovales* (Cyperaceae) from Michoacán, México. *Contributions from the University of Michigan Herbarium* 25: 225–230.
122. Hipp AL, A.A. Reznicek, P.E. Rothrock, and J.A. Weber. 2006. Phylogeny and Classification of *Carex* Section *Ovales* (Cyperaceae). *International Journal of Plant Sciences* 167: 1029–1048.
123. Van Ee, B., N. Jelinski, P.E. Berry, and Hipp AL. 2006. Population genetics and phylogeography of *Croton alabamensis*, a rare shrub disjunct between Texas and Alabama, based on DNA sequences and AFLP data. *Molecular Ecology* 15: 2735–2751.
124. Berry, P.E., Hipp AL, K.J. Wurdack, B. Van Ee, and R. Riina. 2005. Molecular phylogenetics of the giant genus *Croton* (Euphorbiaceae *sensu stricto*) using ITS and trnL–F DNA sequence data. *American Journal of Botany* 92: 1520–1534.
125. Hipp AL, J.C. Hall, and K.J. Sytsma. 2004. Congruence versus Phylogenetic Accuracy: Revisiting the Incongruence Length Difference (ILD) Test. *Systematic Biology* 53: 81–89.
126. Hipp AL 1998. Checklist of carices for prairies, savannas and oak woodlands of southern Wisconsin. *Transactions of the Wisconsin Academy of Sciences, Arts and Letters* 86: 77–99.

POPULAR PUBLICATIONS, REPORTS, BOOK REVIEWS, INTRODUCTIONS

1. Hipp AL, Althaus K, Coombes AJ, González-Elizondo MS, González-Rodríguez A, Hahn M, Manos P, Rodríguez Correa H. 2023. Time, Space, Function: Biogeography of the Mexican Oaks. *International Oaks: The Journal of the International Oak Society* 34: 125–139.
<https://www.internationaloaksociety.org/content/time-space-function-biogeography-mexican-oaks>
2. Hipp AL. 2021. Fields of View. *The Learned Pig*.
<https://www.thelearnedpig.org/fields-of-view/10187>
3. Hipp AL. 2021. Taking the Measure of a Forest. *Places Journal*.
<https://placesjournal.org/article/taking-the-measure-of-a-suburban-forest-preserve>
4. Hipp AL, Manos PS, Cavender-Bares J. 2020. How Oak Trees Evolved to Rule the Forests of the Northern Hemisphere. *Scientific American* 323: 42–49.
<https://www.scientificamerican.com/article/how-oak-trees-evolved-to-rule-the-forests-of-the-northern-hemisphere/>
Translated in *Pour la Science* 516 as “L’étonnant succès évolutif des chênes” [url:
<https://www.pourlascience.fr/sd/botanique/letonnant-succes-evolutif-des-chenes-20105.php>]

5. Hipp AL and Davis RD. 2020. *Each year in the forest: Winter*. *Arnoldia* 77(3): 36–43. <https://arboretum.harvard.edu/stories/each-year-in-the-forest-winter/>
6. Hipp AL and Davis RD. 2020. *Each year in the forest: Spring*. *Arnoldia* 77(4): 32–40. <https://arboretum.harvard.edu/stories/each-year-in-the-forest-spring/>
7. Hipp AL and Davis RD. 2020. *Each year in the forest: Summer*. *Arnoldia* 78(1): 42–51. <https://arboretum.harvard.edu/stories/each-year-in-the-forest-summer/>
8. Hipp AL and Davis RD. 2020. *Each year in the forest: Autumn*. *Arnoldia* 78(2): 34–43. <https://arboretum.harvard.edu/stories/each-year-in-the-forest-autumn/>
9. Crowl AA, Bruno E, Hipp AL, Manos PS. 2020. Revisiting the Mystery of the Bartram Oak. *Arnoldia* 77: 6–11. <https://arboretum.harvard.edu/stories/revisiting-the-mystery-of-the-bartram-oak/>
10. Garner, M., Pham, K.K., Whittemore, A.T., Cavender-Bares, J., Gugger, P.F., Manos, P.S., Pearse, I.S., and Hipp AL. 2019. From Manitoba to Texas: A study of the population genetic structure of bur oak (*Quercus macrocarpa*). *International Oaks: The Journal of the International Oak Society* 30: 131–138.
11. Hipp AL. 2019. Pharaoh’s Dance: the oak genomic mosaic. *International Oaks: The Journal of the International Oak Society* 30: 53–62.
12. Cannon CH, Brendel O, Deng M, Hipp AL, Kremer A, Kua C-S, Plomion C, Romero-Severson J, Sork VL. 2018. Meeting report: Gaining a global perspective on Fagaceae genomic diversification and adaptation. *New Phytologist* 218: 894–897.
13. Hipp AL, S.C. Gonzalez-Martinez, and J.P. Jaramillo-Correa. 2017. The Evolution of Tree Diversity: Proceedings of the 2016 IUFRO Genomics and Forest Tree Genetics Conference, Phylogenetics and Genomic Evolution Session, Arcachon, France. *Genome* 60: v-vi.
14. Hipp AL, P. Jiménez-Mejías, M.J. Waterway, M. Hahn, and E.H. Roalson. 2016. Proceedings Introduction: Phylogeny and Ecological Diversification in *Carex*. *Systematic Botany* 41: 498–499.
15. Hipp AL. 2016. Oak Research in 2015: a Snapshot from the IOS Conference. *International Oaks: The Journal of the International Oak Society* 27: 15–22
16. Hipp AL. 2015. Should Hybridization Make Us Skeptical of the Oak Phylogeny? *International Oaks: The Journal of the International Oak Society* 26: 9–18.
17. Hipp AL, P. S. Manos, J. Cavender-Bares, D. A. R. Eaton, and R. Nipper. 2013. Using phylogenomics to infer the evolutionary history of oaks. *International Oaks: The Journal of the International Oak Society* 24: 61–71.
18. Sturmer, J.S. and Hipp AL. 2012. *Checklist of the Spontaneous Plants of The Morton Arboretum and Hidden Lake Forest Preserve*, vers. 1-2. url: <http://systematics.mortonarb.org/herbarium>.
19. Hipp AL. 2011. Invited review of *Plant Systematics: An Integrated Approach*, Third Edition, by Gurcharan Singh. *The Quarterly Review of Biology* 86: 50.
20. Hipp AL, with illustrations by Davis RD. 2010. Hill’s oak: the taxonomy and dynamics of a Western Great Lakes endemic. *Arnoldia* 67(4): 2–14. <https://arboretum.harvard.edu/stories/hills-oak-the-taxonomy-and-dynamics-of-a-western-great-lakes-endemic/>
21. Hipp AL, J. Weber, and A. Srivastava. 2010. Who am I this time? The affinities and misbehaviors of Hill’s oak (*Quercus ellipsoidalis*). *International Oaks: The Journal of the International Oak Society* 21: 27–36.
22. Hipp AL. 2008. How Far is Too Far? Genetic consequences of Seed Provenance Decisions in Sedges. Report on research grant results, Chicago Wilderness / USDA / USFWS.
23. Hipp AL. 2007. Evaluating Provenance Limits in Prairie Sedges: Development of Microsatellite Markers in *Carex scoparia*. Report on research grant results, Midewin Tallgrass Prairie / Fish & Wildlife Foundation.

24. Hipp AL and J.A. Weber. 2007. Taxonomy of Hill's Oak (*Quercus ellipsoidalis*) in the Chicago Region: preliminary molecular evidence. *International Oaks: The Journal of the International Oak Society* 18: 65–74.
25. Balaban, J., J. Balaban, P.E. Rothrock, Hipp AL, J. Kluse, and R. Foster, with assistance of L. Ross and A.A. Reznicek. 2007. *Carex of Northeastern Illinois and Northwestern Indiana, USA: Sedges (Carex spp.) of the Chicago Region*. Chicago Wilderness Guide #4. Environmental and Conservation Programs, the Field Museum, Chicago. http://fm2.fieldmuseum.org/chicagoguides/guide_pdfs/CW4-06.pdf
26. Hipp AL. 2005. When oak leaves fail to fall. *Plant Health Care Report* 2005.03: 11–12. Reprinted in *Tag Along* (2007) 6: 6–7, the newsletter of Taltree Arboretum.
27. Hipp AL. 2004. Behavior of Dobzhansky-type epistatic hybridization models under varying dominance and selection: preliminary numerical simulations. Report to Worldwide Universities Network.
28. Hipp AL. 1996. When autumn leaves begin to fall. *NewsLeaf* 10: 1–2. Reprinted in *Woodland Management* Fall 1997: 27.
29. Hipp AL. 1994. Ground-truthing of Apostle Islands vegetation maps. Contracted report to Apostle Islands National Lakeshore, Bayfield, Wisconsin.

BOOKS FOR CHILDREN

1. Hipp AL. 2004. *Getting Into Nature: Oak Trees*. Powerkids Press, NY. 28 pp.
2. Hipp AL. 2004. *Getting Into Nature: Olive Trees*. Powerkids Press, NY. 28 pp.
3. Hipp AL. 2004. *Getting Into Nature: Sunflowers*. Powerkids Press, NY. 28 pp.
4. Hipp AL. 2004. *Getting Into Nature: Maize*. Powerkids Press, NY. 28 pp.
5. Hipp AL. 2003. *The Wild Life of Insects: Peanut-Head Bugs*. Powerkids Press, NY. 24 pp.
6. Hipp AL. 2003. *The Wild Life of Insects: Dung Beetles*. Powerkids Press, NY. 24 pp.
7. Hipp AL. 2003. *The Wild Life of Insects: Gardening Ants*. Powerkids Press, NY. 24 pp.
8. Hipp AL. 2003. *The Wild Life of Insects: Assassin Bugs*. Powerkids Press, NY. 24 pp.
9. Hipp AL. 2003. *The Wild Life of Insects: Leafhoppers*. Powerkids Press, NY. 24 pp.
10. Hipp AL. 2003. *The Wild Life of Insects: Orchid Mantids*. Powerkids Press, NY. 24 pp.
11. Hipp AL. 2002. *Life Cycle of an Earthworm*. Powerkids Press, NY. 24 pp.
12. Hipp AL. 2002. *Life Cycle of a Mouse*. Powerkids Press, NY. 24 pp.
13. Hipp AL. 2002. *Life Cycle of a Snail*. Powerkids Press, NY. 24 pp.
14. Hipp AL. 2002. *Life Cycle of a Painted Turtle*. Powerkids Press, NY. 24 pp.
15. Hipp AL. 2002. *Life Cycle of a Duck*. Powerkids Press, NY. 24 pp.
16. Hipp AL. 2002. *Life Cycle of a Praying Mantis*. Powerkids Press, NY. 24 pp.

DATABASES ADMINISTERED

Herbarium database: <http://bol.mortonarb.org/morton/herbarium>

vPlants: <http://www.vplants.org>

Global oaks site: <http://quercus.myspecies.info> [will be archived 2024, as EU Scratchpads sunsets]

Global sedges site: <http://cyperaceae.e-monocot.org> [archived as of 2020, as Kew e-monocots project was not sustained]

INVITED SEMINARS AND LECTURES (EXTERNAL ONLY)

The Huntington, 2025

IUFRO World Congress, Stockholm, 2024

Texas Tech University, 2024

International Oak Society, 2023

University of Kentucky, 2023

Chicago Regional Trees Initiative,

Oaks on the Move, 2023

University of Göttingen (6 seminars), 2023

Northern Michigan University, 2023
 UC Berkeley and Jepson Herbaria, 2022
 UC Berkeley Dep't of Integrative Biology, 2022
 Duke University, Sara P Duke Gardens, 2021
 University of Vienna, 2021
 Wild Ones, Rockford IL, 2021
 UW Madison Arboretum, 2019
 Polly Hill Arboretum, 2019
 University of Minnesota, 2018
 Oklahoma State University, 2018
 Michigan State University, 2018
 University of Wisconsin – Madison, 2018
 Missouri Botanical Garden Annual Fall
 Symposium 2018
 CIIDIR Durango 2017
 Benemérita Universidad Autónoma de Puebla,
 Puebla 2017
 IUFRO Fagaceae Genomics and Forest Tree
 Genetics Conference, Chenshan 2017
 IUFRO Fagaceae Genomics and Forest Tree
 Genetics Conference, Arcachon, 2016
 8th International Oak Society meeting, Lisle IL
 2015
 Northern Illinois University, DeKalb IL 2015
 INRA-BioGeCo, Bordeaux, 2014
 Korea National Arboretum, 2013
 Monocots V, NY, 2013
 UW Milwaukee, WI, 2013
 WildThings, IL, 2013
 Prairie Restoration in the 21st Century (Morton
 Arboretum), IL, 2012
 Holden Arboretum, OH, 2012
 Indiana Dunes National Lakeshore, IN, 2012
 Seventh International Oak Society meeting,
 Bordeaux, 2012
 University of Colorado-Denver, 2012
 International Botanical Congress, Melbourne,
 Australia, 2011.
 Plant Sciences Symposium, The Field Museum,
 Chicago IL, 2011.
 UW Arboretum Native Landscaping
 Conference, Madison WI, 2011.
 Wayne State University, OH, 2011
 Illinois Institute of Technology, Chicago IL,
 2010.
 North American Oak Genome Workshop, Santa
 Barbara, 2010.
 Prairie Moon Nursery, Winona MN, 2010.
 UW-Milwaukee Field Station, Cedarburg WI,
 2010.
 Humboldt Field Research Institute. Steuben,
 ME, 2009.
 Sixth International Oak Conference. Puebla,
 Mexico, 2009.
 University of Colorado–Boulder, Museum and
 EEB Department, 2009.
 University of Illinois–Chicago, Department of
 Biological Sciences, 2009.
 Duke University. Durham NC, 2008.
 National Evolutionary Synthesis Center
 (NESCent). Durham NC, 2008.
 Northwestern University, Plant Biology and
 Conservation. Evanston IL, 2008.
 Royal Botanic Garden Edinburgh. Edinburgh,
 U.K., 2008.
 University of Chicago, Committee on
 Evolutionary Biology. Chicago IL, 2008.
 Washington State University, Department of
 Biological Sciences. Pullman WA, 2008.
 WildOnes (Rockford IL) and the U. of
 Wisconsin Arboretum (Madison WI), 2008.
 The Field Museum, Botany Department.
 Chicago IL, 2007.
 Fifth International Oak Conference. Dallas TX,
 2006.
 Madison Area Naturalists' Enrichment Series.
 Madison WI, 2006.
 St. Mary's College. Notre Dame IN, 2006.
 International Botanical Congress. Vienna,
 Austria 2005.
 University of Alaska Museum of the North.
 Fairbanks AK, 2005.
 BioSystems Reading Group, University of
 Leeds. Leeds, U.K, 2004.
 WildOnes Native Landscaping Conference,
 WildOnes Milwaukee Chapter Meetings,
 and Midwest Native Landscaping
 Conference. Oshkosh 2003, Milwaukee
 2003, and Madison WI, 2002.
 2nd International Conference on Uses and
 Systematics of Cyperaceae. Dover DE,
 2002.
 Madison Area Naturalists' Enrichment Series.
 Madison WI, 2001.
 Wisconsin DNR State Parks Naturalist Training.
 Green Lake WI, 1998.

SELECTED EXTERNAL SERVICE

Council member at large, American Society of Plant Taxonomists (ASPT), 2021-2024
 Awards committee, ASPT, 2022-2024 (Chair of committee, 2024)
 Careers committee, American Society of Plant Taxonomists (ASPT), 2018-2020
 Scientific committee, Fagaceae Genomics and Genetics Conference (IUFRO), Shanghai, 2017

Scientific committee, Genomics and Forest Tree Genetics Conference (IUFRO), Arcachon, 2016
 Invited workshop / workgroup participant: *Oaks of the Americas Conservation Network synthesis meeting* (Morelia 2016), *Integration of Phylogenetic Comparative Methods in R* (NESCent, Durham NC, 2007), *Wisconsin DNR Floristic Quality Assessment Work Session* (Stevens Point WI, 2002), *U.S. Forest Service Population Viability Assessment Work Session* (Duluth MN, 2001)
 Co-organizer, 8th International Oak Society Conference, Lisle IL, 2015
 Managing Editor for *Systematic Botany*, 2013.
 Associate Editor for *Systematic Botany*, 2008–2012.
 Manuscript reviews for *American Journal of Botany*, *American Midland Naturalist*, *Annals of Botany*, *Bioinformatics*, *The Botanical Review*, *Canadian Journal of Botany*, *Ecological Restoration*, *Evolution*, *Genetics*, *Illinois Natural History Survey*, *Indiana Academy of Sciences*, *International Journal of Plant Sciences*, *Molecular Phylogenetics and Evolution*, *Nordic Journal of Botany*, *Plant Systematics and Evolution*, *Proceedings of the Biological Society of Washington*, *Monographs in Systematic Biology from the Missouri Botanical Garden*, *Systematic Biology*, *Systematic Botany*, *Taxon*, *University of Wisconsin Press*.
 Reviewer, *National Wetland Plant List*, U.S. Army Corps of Engineers, 2010.
 Web committee, American Society of Plant Taxonomists, 2007–2009.
 Grant reviews for Institute for Museum and Library Services (Conservation program), Iowa Academy of Science, Louisiana State Board of Regents, NSF–Biological Research Collections, NSF–Population and Evolutionary Processes, NSF–Systematic Systematic Biology; Invited panelist for IMLS National Leadership Grants, Advancing Digital Resources (2011).
 International Cultivar Registration Authority for elms (*Ulmus*), 2006–2016.
 Primary contact and lead role in ongoing development of vPlants, an online herbarium consortium for the greater Chicago region (www.vPlants.org; 2004–present).

RESEARCH SUPERVISING AND MENTORSHIP

Staff scientists supervised in my lab (full time salaried):

1. Lindsey Worcester (Herbarium Assistant, 2017–present).
2. Mira Garner (Research Assistant, 2017–2019). *Carex* DNA sequencing; oak genetics.
3. Andrea Miller (Research / Herbarium assistant, 2015–2017). Herbarium and Aquatic Invasive Plants TCN outreach
4. Mary-Claire Glasenhardt (Prairie Restoration Research Assistant, 2015–2020). Prairie restoration experiment.
5. Marlene Hahn (Research / Herbarium assistant, 2011–present). Oak, sedge, and maple biodiversity.
6. Bethany Brown (Research / Herbarium assistant, 2010–2015). Oak and sedge biodiversity.
7. Dr. Alka Srivastava (Research assistant, 2010): Gene flow in oaks.
8. Jaime Weber (Research assistant, 2005–2010): Systematics and molecular ecology of oaks, elms, sedges.
9. Jason Sturner (Herbarium assistant, 2005–2010): Flora of the Great Lakes; taxonomy of oaks.

Graduate students (= advisor or co-advisor; % = visiting student, at least 3 months in our lab)*

1. * Kieran Althaus, University of Chicago (Fall 2022-present; advisor): *Quercus*
2. * Senna Robeson, University of Chicago (Fall 2019-present; advisor): *Acer*
3. * Ryan Fuller, University of Chicago (2016–present; co-advisor)
4. % Rubén Martín Sánchez, Centro de Investigación y Tecnología Agroalimentaria de Aragón, Spain (Fall 2023): *Quercus*
5. % Sofia Zorrilla Azcué, UNAM – Morelia (Fall 2022): *Quercus*
6. *% Shuai Liao, East China Normal University (2019-2021; U.S. advisor): *Ficus*
7. % Carmen Benitez-Benitez, Pablo de Olavide University, visiting PhD student 2018: *Carex* phylogenomics
8. % Saddam Morales, UNAM-Morelia, visiting PhD student 2018: *Quercus* phylogenomics
9. % Kasey Pham, Michigan State University, research fellow 2017: *Quercus* HybSeq marker development

10. % Ana Otero, Spanish National Research Council, Madrid, visiting PhD student, 2016: *Omphalodes* phylogenomics (RADseq)
11. % Monica Miguez, Pablo de Olavide University, visiting PhD student (2016): *Carex* phylogenetics
12. *% Dr. Uzma Qureshi, NUST-Islamabad, visiting PhD student, 2015-16, 2017-18: *Carex* phylogenetics, plastome sequencing
13. % Dr. Enrique Maguilla, Pablo de Olavide University, visiting PhD student, 2014, 2015, 2016-17: *Carex* phylogenomics (RADseq, HybSeq)
14. % Dr. Laia Barres, Institut Botanic de Barcelona, Visiting PhD student 2010: AFLPs in *Euphorbia*.
15. % Dr. Ian S. Pearse, UC–Davis, Visiting PhD student 2009, 2010, 2011: oak-insect interactions.

Additional graduate student committees

16. Adrienne Ernst, Northwestern University (2016–2021)
17. Dr. Rebecca Barak, Northwestern University (2014–2017)
18. Dr. Daniel Hooper, University of Chicago (2012–2016)
19. Dr. Percy Jinga, University of Illinois-Chicago (2015–2017)
20. Dr. Arpita Konar, Notre Dame University (2012–2016)
21. Aleksandar Radosavljevic, Northwestern University (2011–present)
22. Dr. Andrew Raduski, University of Illinois – Chicago (2012–2014)
23. Dr. Deren Eaton, University of Chicago (2010–2014)
24. Dr. Janet Backs, University of Illinois – Chicago (2010–2015)

Postdoctoral researchers:

1. Rebekah Mohn postdoctoral research, NSF-funded, 2023—2026: Dimensions of Biodiversity (oak syngameon)
2. Dr. Nisa Karimi, postdoctoral research, NSF-funded, 2019-2020: prairie restoration / phylogenetics
3. Dr. Elliott Gardner, NSF Postdoctoral Fellow, 2018-2019: comparative evolution of pollination mode
4. [%] Dr. Tamara Villaverde, Pablo de Olavide University, visiting PhD student (2015) and postdoctoral research (2015-16): *Carex* phylogenomics (RADseq, HybSeq)
5. Dr. Elisabeth Fitzek, 2012–2015: *Quercus* RAD-seq data analysis
6. [%] Dr. Marcial Escudero, Pablo de Olavide University, visiting PhD student (2008) and postdoctoral researcher (2010-2014): *Carex* chromosome evolution and phylogenetics.
7. Dr. Kyong-Sook Chung, postdoc 2009–2011: systematics of *Carex* subgenus *Vignea*.
8. Dr. Karin Kettenring, Short-term postdoc, 2006: Development of *Carex* microsatellites.

Visiting scientists (mid- or late-career)

1. Dr. Roberta Mason-Gamer, University of Illinois-Chicago: sabbatical research 2013
2. Dr. Ana Molina, University of León, visiting researcher 2010: *Carex* sequencing
3. Dr. Alison Mahoney, Mankato State University, sabbatical researcher 2007: Midwest sedges.

High school research interns (= RAHSS):*

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|-------------------------------------|--|
| 1. Zachara Skubeszewski, 2020* | 1. Gabe Ribicoff, 2022-present (U of Chicago, NSF) |
| 2. Eva Bednard, 2020* | 2. Jozelle Arenz, 2020 (NSF) |
| 3. Jozelle Arenz, 2019* | 3. Norbaya Durr, 2020 (NSF) |
| 4. Zachary McDermott, 2019* | 4. Jorge Jaime-Rivera, 2020-2021, 2022 (NSF, CTS) |
| 5. Alice Bieda, 2018* | 5. Alice Bieda (NSF-REU), 2019 |
| 6. Marion Deal, 2018* | 6. Hayley Wagreich, 2019 |
| 7. Emily Grigg, 2017* | 7. Elizabeth Gibbons (2018, 2019) |
| 8. Seamus Flannery, 2017 | 8. Alyssa Barrantes (NSF-REU, 2018) |
| 9. Hayleigh Wagreich, 2016, 2017* | 9. %Ashley Tuffin (2017-2018) |
| 10. Elizabeth Eboli, 2015* | 10. Amy Byrne (2017) |
| 11. Rosemary Kallarackal, 2015* | 11. Sara Desmond (2017, 2018) |
| 12. Kasey Pham, 2014* | 12. %Anayansi Solis (2016) |
| 13. Alexa Cotton, 2012, 2013, 2014* | |

Undergraduate research interns:

13. Kasey Pham (2014, 2015, 2016): Biodiversity informatics and phylogenomics, oaks and sedges
14. Nicholas Steichmann (2015): Oak population genetics
15. Mira Garner (2015, 2016): Prairie community ecology and restoration
16. Alexa Cotton (2013, 2014, 2015): *Quercus* projects and prairie
17. Geraldine Holmes (Undergraduate research intern, 2013): *Quercus mapping*
18. Stefan Mielke (Undergraduate research intern, 2013): *Quercus* AFLP
19. Alexa Cotton, 2013, 2014
20. Casey Perkins (Undergraduate research intern, 2012–2013): *Carex* morphology, *Quercus* mapping
21. Kate Lueders (Undergraduate research intern, NSF, 2012–2013): *Carex* and *Ulmus* systematics
22. Breane Budaitis (Undergraduate research intern, NSF, Ohio Wesleyan, 2012, 2013; REU 2014): Oak systematics. Contributions: development of an oak genotyping-by-sequencing library (2012); leader on oak AFLP phylogenetics (2013)
23. Susan Helford (Undergrad research intern, Lake Forest College, 2012): Oak morphometrics for 140 specimens.
24. Melanie Koto (Undergrad research intern, Illinois Institute of Technology, 2011): *Carex* DNA sequencing.
25. Sylwia Dakowicz (Undergrad research intern, Lake Forest College, 2011): AFLP oak phylogeny.
26. Natalie Kirchner (NSF-REU researcher, 2010): Online field and photomicrographs for 32 species *Carex*, published online through EOL – Lifedesks (carex.lifedesks.org; vignealifedesks.org)
27. Kara Moutvic (Undergrad research intern, NSF, Benedictine University, 2009): DNA sequencing and cytogenetics of *Carex*.
28. Andrew Bass (NSF-REU researcher, 2009): Microsatellite analysis of western North American *Carex*.
29. James Doss (Undergraduate research volunteer, EIU, 2008–2009): Morphometrics of black oak.
30. Andrew Gardner (NSF-REU researcher, UW–Madison, 2003–2004): Online Wisconsin *Carex* database of 40 species, including field and photomicrographs, online from 2004 through 2011. Images have subsequently been migrated to Encyclopedia of Life – Lifedesks (carex.lifedesks.org; vignealifedesks.org).
31. Joshua Ladwig (Botany undergraduate, UW–Madison, 2003–2004): greenhouse study of *Carex stolonifera*.
32. Nicolas Jelinski (NSF-REU researcher, UW–Madison, 2002–2004): *Croton alabamensis*. Publication: Van Ee et al. 2005.
33. Living collections interns (1–2 per summer, 1–2 weeks each year): 2005–current

Post-graduate research interns

Research interns / Research assistants, part time

1. Leah Samuels, 2022-2023 (NSF, D.O.B.)
2. Rachel Gowett (Prairie intern, 2021)
3. Victoria Larsen (Prairie intern, 2019, 2020, 2021)
4. Ben Avis (Prairie intern, 2019, 2020)
5. Samantha Gray (oak genetics, 2019-2020)

K-12 teachers trained in our lab, 4-10 wks:

1. Amy Schwartz (NSF-TCN, 2017): using specimens in the classroom
2. James Rowe (NSF-TCN, 2017): using specimens in the classroom
3. Patricia Rowe (NSF-TCN, 2017): using specimens in the classroom
4. Lisa Hootman (NSF-TCN, 2017): using specimens in the classroom
5. Patrick Murphy (AP biology, NSF-RET, 2015): Prairie collaboration
6. Jeff Grant (AP biology, NSF-RET, 2013, 2015; NSF-TCN, 2017): Prairie collaboration; *Carex* morphology collaboration; *Quercus* AFLP phylogeny; Aquatic invasives biology
7. Sara Young (Secondary environmental biology, NSF-RET, 2013): *Carex* morphology
8. Sara Adams (Secondary biology, volunteer, 2013): *Carex* morphology
9. Donna Wetta (8th grade teacher intern, 2011-2012; NSF-RET researcher, 2013): herbarium creation, prairie plant identification, *Carex* morphology.
10. Mina Rodriguez (NSF-RET researcher, 2010-2011): systematics of *Carex*; biodiversity teacher survey
11. Jill Henry (8th grade science teacher, NSF-RET researcher, 2010): tree biology; molecular systematics

12. Scott Johnson (AP biology teacher, NSF-RET researcher, 2010): tree of life lab for high-school bio students
13. Amanda Rogers (2nd-grade teacher, NSF-RET researcher, 2009): Integrating evolution into her curriculum.