Darin S. Penneys

curriculum vitæ – November 2018

Contact Information:
University of North Carolina Wilmington
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Research Interests:
Systematics, natural history, and evolution of angiosperms. Current projects include higher-level phylogenetic studies of Melastomataceae, using a global, multi-locus, molecular phylogeny that will serve as a foundation for a revised familial classification and biogeographical analyses. Additionally, I am conducting phylogenetic investigations using molecular and morphological characters on several tribes, several of which I recently discovered. I am especially interested in character evolution, particularly as pertains to plant-animal interactions and ecology. Furthermore, I am actively involved in documenting plant diversity and biogeography throughout southeast Asia, especially in the Philippines.

Education:

2008-2010	Postdoc	California Academy of Sciences
2007-2008	Postdoc	Université Paul Sabatier
2007	Ph.D., Botany	University of Florida
2001	M.S., Botany	University of Florida
1992	B.S., Biology	Southern Connecticut State University

Teaching Experience:

2015-present	Assistant Professor, Department of Biology and Marine Biology, University of North Carolina Wilmington
2006-2007	Graduate Teaching Assistant, Local Flora of North Florida, Department of Botany, University of Florida (Lecture & lab)
2003	Instructor, Biology I. Cells, Organisms, & Genetics, Department of Biological Sciences, University of Florida (Lecture)
2001-2002	Instructor, Local Flora of North Florida, Department of Botany, University of Florida (Lecture & lab)
2000	Graduate Teaching Assistant; Tropical Botany, Department of Botany, University of Florida (Lab)
2000	Graduate Teaching Assistant; Introductory Plant Systematics, Department of Botany, University of Florida (Lab)
1998-1999	Graduate Teaching Assistant; Integrated Principles of Biology I, Department of Biological Sciences, University of Florida (Lab)
1996	Teaching Assistant, Tropical Biology, Council on International Educational Exchange, Monteverde, Costa Rica (Lecture & lab)
1995	Teaching Assistant, Tropical Dendrology, Monteverde Cloud Forest Preserve, Costa Rica

Students:
California Academy of Sciences:
M.Sc. student: Jeffrey Mancera.
Postgraduates: Lisa Ogata, Cher Pon, Jing Sun, Elaine Zhang.
Undergraduates: Diana Dinh, Zackary Guignardi, Tony Hua, David West.
High School: Sean Fitzhoward.

Leiden University:
Ph.D. student: Abdulrokhman Kartonegoro.
North Carolina State University:
Ph.D. student: Juliet A. Lindo.
Université Paul Sabatier, Toulouse, France:
M.Sc. students: Diana Bailleul, Marie LeCoz.
University of North Carolina Wilmington:
M.Sc. students: Amanda Chapman.
Undergraduate (Directed Independent Study): Carl Buddin, Amanda Chapman, Michael Torbett, Alison James, Zachary Denny, Caroline Winand, Djuro Raskovic, John McLaughlin, Kelly McGhee.
Honors students: Deanna Hardesty, Kelly McGhee.
University of Vienna, Austria:
M.Sc. & Ph.D. student: Agnes Dellinger.
Western Michigan University:
Ph.D. student: J. Peter Quackenbush.

Research Experience:

2015-present	Keeper of the Herbarium, Sieren Herbarium (WNC), University of North Carolina Wilmington
2015-present	Research Associate, Instituto Nacional de Biodiversidad (INABIO), Ecuador
2012-present	Research Fellow, Department of Botany, California Academy of Sciences
2011-2012	Research Associate, Department of Botany, California Academy of Sciences
2008-2010	John J. Rose Postdoctoral Research Fellow, Phylogenetics of the Melastomataceae, Department of Botany, California Academy of Sciences
2007-2008	Postdoctoral Research Fellow, The BRIDGE, Université Paul Sabatier – Centre National de la Recherche Scientifique (CNRS), France
2005-2006	Research Assistant in Melastome Systematics, Department of Botany, University of Florida
2002-2005	Research Assistant in Plant Systematics, Department of Biological Sciences, University of Florida
2001	Botanical Field Technician, Florida Natural Areas Inventory
2000-present	Melastomataceae identifications, United States National Herbarium, Missouri Botanical Garden, New York Botanical Garden, plus other national and local herbaria throughout the U.S.A., Latin America, Europe, China, and the Philippines
1997-1998	Database Technician, University of Pennsylvania, Dan Janzen laboratory, Lepidoptera of Guanacaste Conservation Area
1995-1996	Field Botanist, Flora of Monteverde, Costa Rica (Missouri Botanical Garden)
1994-1995	Field Botanist, Santa Elena Reserve, Monteverde, Costa Rica
1993-1994	Conservation Gardener, North Carolina Botanical Garden, University of North Carolina - Chapel Hill
1991-1992	Botanical Technician, United States Forest Service, Fremont National Forest, Oregon

Skills:

Molecular techniques: Proficient with genomic DNA extraction and purification (phenol-chloroform and kits) from fresh and degraded tissue samples, primer design, PCR optimization and amplification, DNA sequencing. Use of lab equipment, including mill-mixer, fume hood, incubator, Qubit, Nanodrop, centrifuge, thermocyclers, gel electrophoresis, imaging systems, DNA sequencers, etc.
Morphological techniques: Herbarium curation, plant identification, operation of dissecting and compound microscopes, scanning electron microscope, sputter coater, digital photography, character and character state delimitation, taxon description.

Software and web: Microsoft Office, Adobe Illustrator, Adobe Photoshop, WordPress, EndNote, NCBI BLAST, BioEdit, Macclade, Mesquite, PAUP*, MrBayes, RAxML, GARLI, BEAST, MEGA, Sequencher, Geneious, MAFFT, FigTree, TreeView.

Publications:

XX. Fritsch, P.W., and **D.S. Penneys.** *Rehderodendron magnibracteolatum* (Styracaceae), a new species from Vietnam. Journal of the Botanical Research Institute of Texas. Submitted.

XX. **Penneys, D.S.,** and F. Almeda. Lithobieae and Eriocnemeae: two new neotropical tribes of Melastomataceae. Phytotaxa. Submitted.

XX. **Penneys, D.S.,** J.P. Quackenbush, and J.P. Mancera. Melastomataceae. In: R. Camara-Leret (ed.). Unraveling New Guinea's Plant Megadiversity. Proceedings of the National Academy of Sciences. Submitted.

XX. Michelangeli, F.A., A. Nicolas, G. Ocampo, R. Goldenberg, F. Almeda, W.S. Judd, E. Becquer-Granados, J.D. Skean, Jr., R. Kriebel, K. Sosa, **D.S. Penneys,** M.K. Caddah, M. Alvear, J.M. Burke, L.C. Majure, and M. Reginato. Historical Biogeography of the Neotropical Miconieae (Melastomataceae) reveals a pattern of progressive colonization out of Amazonia. Proceedings of the National Academy of Sciences. Submitted.

XX. Zhang, H., C. Zuelsdorf, **D.S. Penneys,** S. Fan, J. Kofsky, and B.H. Song. Transcriptome profiling of a beach-adapted wild legume (*Strophostyles helvola*) for dissecting novel mechanisms of salinity tolerance. Scientific Data. Accepted.

40. Almeda, F., and **D.S. Penneys.** 2018. *Blakea echinata* (Melastomataceae: Blakeeae): a new species from the Caribbean rainforest of Panama. Phytotaxa 372: 104-110. [doi: /10.11646/phytotaxa.372.1.9]

39. Michelangeli, F.A., R. Goldenberg, F. Almeda, W.S. Judd, E.R. Bécquer, G. Ocampo, G.M. Ionta, J.D. Skean, Jr., L.C. Majure, and **D.S. Penneys.** 2018. Nomenclatural novelties in *Miconia* (Melastomataceae: Miconieae). Brittonia. [doi: 10.1007/s12228-018-9546-0]

38. Almeda, F., and **D.S. Penneys.** 2018. A new *Miconia* (Melastomataceae: Miconieae) from upland rain forest of northwestern Guyana. Phytotaxa 369: 115-120. [doi: /10.11646/phytotaxa.369.2.5]

37. Dellinger, A.S., M. Chartier, D. Fernández-Fernández, **D.S. Penneys,** M. Alvear, F. Almeda, F.A. Michelangeli, Y. Staedler, W.S. Armbruster, and J. Schönenberger. 2018. Beyond buzz-pollination – departures from an adaptive plateau lead to new pollination syndromes. New Phytologist [early online version https://doi.org/10.1111/nph.15468].

36. Mancera, J.P., **D.S. Penneys,** and F.P. Coritico. 2017. Revisiting *Astrocalyx* Merr. (Astronieae: Melastomataceae): New morphological observations on the enigmatic, monotypic, Philippine endemic, enigmatic, endangered, and monotypic genus. Natural History Bulletin of the Siam Society 62: 49-65. [http://www.siam-society.org/pub_NHB/nhbss_062_1.html]

35. Fernández-Fernández, D., C. Ulloa Ulloa, and **D.S. Penneys**. 2016. A new species of *Blakea* (Blakeeae, Melastomataceae) from Ecuador. Phytotaxa 284: 69-74. [doi: 10.11646/phytotaxa.284.1.7].

34. Michelangeli, F.A., F. Almeda, M. Alvear, E. Bécquer-Granados, J. Burke, M.K. Caddah, R. Goldenberg, G.M. Ionta, W.S. Judd, L.C. Majure, J. Meirelles, A.N. Nicolas, G. Ocampo, **D.S. Penneys,** J.D. Skean, Jr., and C. Ulloa-Ulloa. 2016. Proposal to conserve the name *Miconia*, nom. cons. against the additional names *Maieta* and *Tococa* (Melastomataceae, Miconieae). Taxon 65: 892-893. [doi: 10.12705/654.27]

33. Almeda, F., H. Mendoza-Cifuentes, **D.S. Penneys,** F.A. Michelangeli, and M. Alvear. 2016. Melastomataceae. Pp. 1585-1664, 2537-2538. In: R. Bernal, S.R. Gradstein, and M. Celis (eds). Catálogo de plantas y líquenes de Colombia, Vol. II. Instituto de Ciencias Naturales, Universidad Nacional de Colombia, Bogotá.

32. Almeda, F., H. Mendoza-Cifuentes, **D.S. Penneys,** F.A. Michelangeli, and M. Alvear. 2015-onwards. Melastomataceae. In: R. Bernal, S.R. Gradstein, and M. Celis (eds). Catálogo de plantas y líquenes

de Colombia. Instituto de Ciencias Naturales, Universidad Nacional de Colombia, Bogotá. Available from: http://catalogoplantasdecolombia.unal.edu.co.

31. **Penneys, D.S.**, C. Ulloa Ulloa, D.A. Neill, and D. Fernández. 2015. A new species of *Chalybea* (Blakeeae, Melastomataceae) from the Ecuador-Peru border. Phytotaxa 212: 264-270. [doi: 10.11646/phytotaxa.212.4.2]
30. Almeda, F., H. Mendoza-Cifuentes, **D.S. Penneys,** F.A. Michelangeli, and M. Alvear. 2015. Melastomataceae. Pp. 3-5. In: R. Bernal, S.R. Gradstein, and M. Celis (eds). New names and new combinations for the catalogue of the plants and lichens of Colombia. Phytoneuron 22: 1-6.
29. Dellinger, A.S., **D.S. Penneys**, Y.M. Staedler, L. Fragner, W. Weckwerth, and J. Schoenenberger. 2014. A specialized bird pollination system with a bellows mechanism for pollen transfer and staminal food body rewards. Current Biology 24: 1615-1619. [doi: 10.1016/j.cub.2014.05.056]
28. Almeda, F., and **D.S. Penneys**. 2014. New and reconsidered species of Tropical American Melastomataceae. Brittonia 66: 160-169. [doi:10.1007/s12228-013-9320-2]
27. **Penneys, D.S.** 2013. Preliminary phylogeny of the Astronieae (Melastomataceae) based on nuclear and plastid DNA sequence data, with comments on the Philippine endemic genus, *Astrocalyx*. Philippine Journal of Science 142 (Special Issue): 159-168.
26. **Penneys, D.S.**, and W.S. Judd. 2013. Combined molecular and morphological phylogenetic analyses of the Blakeeae (Melastomataceae). International Journal of Plant Sciences 174: 802-817. [doi:10.1086/670011]
25. **Penneys, D.S.**, and W.S. Judd. 2013. New combinations and a revised circumscription for the Blakeeae (Melastomataceae). PhytoKeys 20: 17-32. [doi:10.3897/phytokeys.20.4344]
24. Michelangeli, F.A., P.J.F. Guimaraes, **D.S. Penneys**, F. Almeda, and R. Kriebel. 2013. Phylogenetic relationships and Distribution of New World Melastomeae (Melastomataceae). Botanical Journal of the Linnean Society 171: 38-60. [doi:10.1111/j.1095-8339.2012.01295.x]
23. Renner, S.S., D. Triebel, F. Almeda, R. Goldenberg, H. Mendoza-Cifuentes, F.A. Michelangeli, **D.S. Penneys**, R.D. Stone, and C. Ulloa. 2012. MELnet: Melastomataceae.Net (version 1.0, May 2011). *In*: F. Bisby, Y. Roskov, A. Culham, T. Orrell, D. Nicolson, L. Paglinawan, N. Bailly, W. Appeltans, P. Kirk, T. Bourgoin, G. Baillargeon, D. Ouvrard (eds). Species 2000 & ITIS Catalogue of Life, 30th April 2012. Digital resource at www.catalogueoflife.org/col/. Species 2000: Reading, UK.
22. **Penneys, D.S.**, and E. Cotton. 2011. Melastomataceae. Pp. 393-423. *In*: R. Valencia, N. Pitman, S. León-Yánez, and P.M. Jørgensen (eds). Libro rojo de las plantas endémicas del Ecuador, II Edition. Publicaciones del Herbario QCA, Pontifícia Universidad Católica del Ecuador, Quito.
21. Judd, W.S., G.M. Ionta, J.D. Skean, Jr., K. Campbell, and **D.S. Penneys**. 2011. Noteworthy collections of *Heterotis rotundifolia* in Jamaica and Dominica. Castanea 76: 311-312.
20. Wanntorp, L., C. Puglisi, **D.S. Penneys**, and L. Ronse De Craene. 2011. Multiplications of floral organs in flowers – a case study in *Conostegia* (Melastomataceae, Myrtales). Pp. 218-235. *In*: L. Wanntorp and L. Ronse De Craene (eds). Flowers on the Tree of Life. Systematics Association Special Volume, Cambridge University Press, Cambridge, England.
19. **Penneys, D.S.**, and W.S. Judd. 2011. Phylogenetics and morphology in the Blakeeae (Melastomataceae). International Journal of Plant Sciences 172: 78-106. [doi:10.1086/657284]
18. **Penneys, D.S.**, W.S. Judd, F.A. Michelangeli, and F. Almeda. 2010. Henrietteeae (Melastomataceae): A new Neotropical berry-fruited tribe. Systematic Botany 35: 783-800. [doi:10.1600/036364410X539862]
17. Morales-Puentes, M.E., and **D.S. Penneys**. 2010. New species of *Chalybea* Naud. and *Huilaea* Wurdack. Brittonia 62: 26-34. [doi:10.1007/s12228-009-9092-x]
16. **Penneys, D.S.**, and L. Jost. 2009. *Blakea attenboroughii* (Melastomataceae: Blakeeae): A new species from Ecuador. Proceedings of the California Academy of Sciences 60: 69-72.
15. Goldenberg, R., **D.S. Penneys**, F. Almeda, W.S. Judd, and F.A. Michelangeli. 2008. Phylogeny of *Miconia* (Melastomataceae): Patterns of stamen diversification in a megadiverse Neotropical genus. International Journal of Plant Science 169: 963-979. [doi:10.1086/589697]

14. Judd, W.S., J.D. Skean, Jr., **D.S. Penneys**, and F.A. Michelangeli. 2008. A new species of *Henriettea* (Melastomataceae) from the Sierra de Baoruco, the Domincan Republic. Brittonia 60: 217-227. [doi:10.1007/s12228-008-9021-4]
13. Varassin, I. G., **D.S. Penneys**, and F.A. Michelangeli. 2008. Comparative anatomy and morphology of nectar-producing Melastomataceae. Annals of Botany 102: 899-909. [doi:10.1093/aob/mcn180]
12. Bécquer-G., E. R., K.M. Neubig, W.S. Judd, F.A. Michelangeli, J.R. Abbott, and **D.S. Penneys.** 2008. Preliminary molecular phylogenetic studies in *Pachyanthus* (Miconieae, Melastomataceae). Botanical Review 74: 37-52. [doi:10.1007/s12229-008-9010-z]
11. Michelangeli F.A., W.S. Judd, **D.S. Penneys**, J.D. Skean, Jr., E.R. Bécquer-G., R. Goldenberg, and C.V. Martin. 2008. Multiple events of dispersal and radiation of the tribe Miconieae (Melastomataceae) in the Caribbean. Botanical Review 74: 53-77. [doi:10.1007/s12229-008-9004-x]
10. Almeda, F., P.E. Berry, A. Freire-Fierro, A. Gröger, B.K. Holst, N.G. Luckana, F.A. Michelangeli, T. Morley, **D.S. Penneys**, S.S. Renner, O.R. Robinson, J.J. Wurdack, and K. Yatskievych. 2007. Melastomataceae. Pp. 397-417. *In:* V. Funk, T. Hollowell, P. Berry, C. Kelloff, and S.N. Alexander (eds.). Checklist of the plants of the Guiana Shield (Venezuela: Amazonas, Bolivar, Delta Amacuro; Guyana, Surinam, French Guiana). Contributions from the United States National Herbarium, Washington D.C.
9. Blanco, M.A., W.M. Whitten, **D.S. Penneys**, N.H. Williams, K.M. Neubig, and L. Endara. 2006. A simple and safe method for rapid drying of plant specimens using forced-air space heaters. Selbyana 27: 83-87.
8. **Penneys, D.S.**, and W.S. Judd. 2005. A cladistic analysis and systematic revision of *Charianthus* (Miconieae: Melastomataceae) using morphological and molecular characters. Systematic Botany 30: 559-584. [doi:10.1600/0363644054782125]
7. Judd, W.S., and **D.S. Penneys.** 2004. Taxonomic studies in the Miconieae (Melastomataceae). VIII. A revision of the species of the *Miconia desportesii* complex on Hispaniola. Rhodora 106: 124-147.
6. Michelangeli, F.A., **D.S. Penneys**, J. Giza, D.E. Soltis, M.H. Hils, and J.D. Skean, Jr. 2004. A preliminary phylogeny of the tribe Miconieae (Melastomataceae) based on nrITS sequence data and its implications on inflorescence position. Taxon 53: 279-290.
5. **Penneys, D.S.**, and W.S. Judd. 2004. Two new species of *Charianthus* (Melastomataceae: Miconieae) from the Lesser Antilles. Brittonia 56: 19-27. [doi:10.1663/0007-196X(2004)056[0151:TNSOCM]2.0.CO;2]
4. Judd, W.S., **D.S. Penneys**, and J.D. Skean, Jr. 2004. Rediscovery of *Ossaea alloeotricha*, an endemic of the high-elevation Massif de la Hotte, Haiti, and its transfer to *Miconia* (Melastomataceae: Miconieae). Brittonia 56: 56-62. [doi:10.1663/0007-196X(2004)056[0159:ROOAAE]2.0.CO;2]
3. **Penneys, D.S.**, and W.S. Judd. 2003. The resurrection and lectotypification of *Tetrazygia fadyenii* (Melastomataceae: Miconieae): A hummingbird-pollinated treelet endemic to Jamaica. Sida 20: 877-884.
2. **Penneys, D.S.** 2001 - onward. Melastomataceae of the World [online]. Available at: http://www.melastomes.com (not peer-reviewed)
1. **Penneys, D.S.** 1996. A guide to the common flowering plant families of Monteverde, Costa Rica. Published by the author. 65 pp. (not peer-reviewed)

Presentations:

40. **Penneys, D.S.,** F. Almeda, F.A. Michelangeli, and P.W. Fritsch. An updated overview of Melastomataceae phylogenetic relationships. Congreso Latinoamericano de Botanica XII, 21–28 October 2018, Quito, Ecuador.
39. Dellinger, A.S., O, Paun, **D.S. Penneys**, and J. Schönenberger. Beyond pollination syndromes: disentangling complex vertebrate pollination systems in the genus *Meriania* (Melastomataceae). POPBIO2018, 3–5 May 2018, Innsbruck, Austria.

38. Dellinger, A.S., D. Fernández-Fernández, **D.S. Penneys**, F.A. Michelangeli, M. Alvear, F. Almeda, Y. Staedler, and J. Schönenberger. Bees, birds, bats – and mice? Pollination syndromes and floral traits in Merianieae (Melastomataceae). International Botanical Congress XIX, 23–29 July 2017, Shenzhen, China.
37. Mancera, J., F. Almeda, **D.S. Penneys**, and P.W. Fritsch. Morphological phylogenetic analysis of the Astronieae (Melastomataceae). International Botanical Congress XIX, 23–29 July 2017, Shenzhen, China.
36. Mancera, J., **D.S. Penneys**, and F. Cortico. Revisiting *Astrocalyx* Merr. (Astronieae: Melastomataceae): New morphological observations on the Philippine endemic, enigmatic, endangered, and monotypic genus. International Botanical Congress XIX, 23–29 July 2017, Shenzhen, China.
35. Dellinger, A.S., S. Artuso, **D.S. Penneys**, F.A. Michelangeli, F. Almeda, and J. Schönenberger. Functional differentiation and trait convergence in accordance with pollinator shifts in Merianieae (Melastomataceae). International Botanical Congress XIX, 23–29 July 2017, Shenzhen, China.
34. Fritsch, P.W., V.B. Amoroso, F.P. Coritico, and **D.S. Penneys**. Field exploration and new species of Ericaceae in Mindanao, Philippines. Botany 2017, 24–28 June 2017, Fort Worth, Texas.
33. Dellinger, A., O, Paun, **D.S. Penneys**, and J. Schönenberger. Impact of pollinator shifts on mating systems and population genetic diversity in a Neotropical plant group. POPBIO2017, 18–20 May 2017, Halle, Germany.
32. **Penneys, D.S.** Melastomataceae phylogenetics and plant-animal interactions. Invited lecture, 10 November 2016, Duke University.
31. **Penneys, D.S.**, F. Almeda, P.W. Fritsch, and F.A. Michelangeli. A revised classification of the Melastomataceae: implications for the biogeography and conservation of the flora of SE Asia. Flora Malesiana 10, 11–15 July 2016, Edinburgh, Scotland.
30. Fritsch, P.W., **D.S. Penneys**, V.B. Amoroso, J.R. Shevock, B.C. Tan, F.P. Cortico, and J.P. Mancera. Plant exploration and discovery in Mindanao, Philippines. Flora Malesiana 10, 11–15 July 2016, Edinburgh, Scotland.
29. Dellinger, A.S., **D.S. Penneys**, and J. Schönenberger. From bee to bird: Pollinator shifts in the Merianieae (Melastomataceae). EMPSEB 21, 8–12 July 2015, Stirling, Scotland.
28. **Penneys, D.S.**, F. Almeda, F.A. Michelangeli, and P.W. Fritsch. Progress towards a revised classification of the Melastomataceae. Botany 2015, 25–29 July 2015, Edmonton, Canada.
27. Dellinger, A.S., **D.S. Penneys**, and J. Schönenberger. Floral food-bodies and a special pollen dispersal mechanism in bird-pollinated *Axinaea* (Melastomataceae). Botany 2014, 27–31 July 2014, Boise, Idaho.
26. **Penneys, D.S.** From systematics to sex: The evolutionary biology of the Meadow Beauties (Melastomataceae). Invited lecture, 12 May 2014, Cenral Mindanao University, Philippines.
25. **Penneys, D.S.** From systematics to sex: The evolutionary biology of the Meadow Beauties (Melastomataceae). Invited lecture, 10 April 2014, Southern Illinois University.
24. **Penneys, D.S.**, F. Almeda, F.A. Michelangeli, and P.W. Fritsch. A survey of remarkable evolutionary trends in the Melastomataceae. Botany 2013, 27–31 July 2013, New Orleans, Louisiana.
23. Almeda, F., **D.S. Penneys**, and M. Reginato. Patterns of chromosome number diversity and evolution in the Melastomataceae. Botany 2013, 27–31 July 2013, New Orleans, Louisiana.
22. Majure, L., W.S. Judd, G. Ionta, J.D. Skean, Jr., E.R. Becquer, R. Kriebel, M. Reginato, J. Burke, **D.S. Penneys**, G. Ocampo, M. Alvear, R. Goldenberg, F. Almeda, and F.A. Michelangeli. Evaluating morphological evolution in tribe Miconieae (Melastomataceae): homoplasy is the rule not the exception. Botany 2013, 27–31 July 2013, New Orleans, Louisiana.
21. **Penneys, D.S.** Melastomataceae phylogenetics: exceptional examples of morphology, migrations, and mating. Invited lecture, 22 May 2013, University of Vienna (Universität Wien).
20. Dellinger, A., **D.S. Penneys**, and J. Schönenberger. Floral food-bodies and a bellows-like mechanism in bird-pollinated *Axinaea* (Melastomataceae). Annual Conference of the Society for Tropical Ecology, 2–5 April 2013, Vienna, Austria.

19. Morales-P., M.E., F. González, **D.S. Penneys**, and W.S. Judd. Recircunscripción y revisión del complejo *Chalybea* + *Huilaea* (Melastomataceae) con base en un análisis filogenético de datos morfológicos y moleculares. VI Congreso Colombiano de Botánica, 11–15 August 2011, Cali, Colombia.
18. **Penneys, D.S.**, F. Almeda, and F.A. Michelangeli. Progress towards a comprehensive phylogenetic analysis and revised classification of the Melastomataceae. Botany 2010, 31 July–4 August 2010, Providence, Rhode Island.
17. **Penneys, D.S.**, and W.S. Judd. Phylogeny and character evolution in the Blakeeae (Melastomataceae). Botany 2010, 31 July–4 August 2010, Providence, Rhode Island.
16. Guimaraes, P.J.F., **D.S. Penneys**, and F.A. Michelangeli. A phylogenetic analysis of Neotropical Melastomeae (Melastomataceae), with an emphasis on *Tibouchina*. Botany 2010, 31 July–4 August 2010, Providence, Rhode Island.
15. **Penneys, D.S.** Tropical plant collecting expeditions, and evolution of the Princess Flowers. Invited lecture, 19 February 2010, California Academy of Sciences. Available at: http://fora.tv/2010/02/19/Darin_Penneys_Tropical_Plant_Collecting_Expeditions
14. **Penneys, D.S.** Meandering through the Melastomataceae: Evolutionary studies in the Princess Flower family. Invited lecture, 12 November 2009, California Academy of Sciences.
13. **Penneys, D.S.** Phylogeny and character evolution in the Blakeeae (Melastomataceae): Neotropical hemiepiphytes with mite and ant domatia. Invited lecture, 1 May 2009, University of California - Berkeley.
12. Varassin, I.G., **D.S. Penneys**, and F.A. Michelangeli. Comparative anatomy and morphology of nectar producing Melastomataceae. Botany & Plant Biology Joint Congress, 7–11 July 2007, Chicago, Illinois.
11. Morales-P, M., **D.S. Penneys**, W.S. Judd, and F. Gonzalez. Reevaluación de *Huilaea* Wurdack y *Chalybea* Naudin (Melastomataceae) como géneros endémicos de Colombia. IV Congreso Colombiano de Botánica, 22–27 April 2007, Medellín, Colombia.
10. Sandino, T., M.E. Morales-P., X. Marquínez, and **D.S. Penneys**. Exploración de caracteres anatómicos de inflorescencia y flor de Blakeeae (Melastomataceae) filogenéticamente informativos. IV Congreso Colombiano de Botánica, 22–27 April 2007, Medellín, Colombia.
9. Michelangeli, F.A., W.S. Judd, **D.S. Penneys**, J.D. Skean, Jr., E. Bécquer, R. Goldenberg, and C.V. Martin. La tribu Miconieae (Melastomataceae) en las Antillas: múltiples eventos de dispersión y radiación. IX Congreso Latinoamericano de Botánica, 19–25 June 2006, Santo Domingo, Dominican Republic.
8. Bécquer-G., E., **D.S. Penneys**, K.M. Neubig, and W.S. Judd. Sistemática, taxonomía y biogeografía de *Pachyanthus* (Miconieae, Melastomataceae), un género endémico de las Antillas Mayores. IX Congreso Latinoamericano de Botánica, 19–25 June 2006, Santo Domingo, Dominican Republic.
7. Bécquer-G., E., **D.S. Penneys**, K.M. Neubig, W.S. Judd, and J.R. Abbott. Análisis filogenético preliminar de *Pachyanthus* (Miconieae: Melastomataceae) basado en datos moleculares. IX Congreso Latinoamericano de Botánica, 19–25 June 2006, Santo Domingo, Dominican Republic.
6. Morales-P, M., **D.S. Penneys**, W.S. Judd, and F. Gonzalez. Estudio preliminar de las relaciones filogenéticas de los generos *Huilaea* Wurd. y *Chalybea* Naud. en la tribu Blakeeae (Melastomataceae). IX Congreso Latinoamericano de Botánica, 19–25 June 2006, Santo Domingo, Dominican Republic.
5. Michelangeli, F.A., R. Goldenberg, W.S. Judd, **D.S. Penneys**, C.V. Martin, J.D. Skean, Jr, and E. Bécquer-G. Estudos filogenéticos em Miconieae (Melastomataceae). 56 Congresso Nacional de Botănica, 9–14 October 2005, Curitiba, Brasil.
4. **Penneys, D.S.**, F.A. Michelangeli, W.S. Judd, and J.D. Skean, Jr. Henrietteeae, a new tribe of neotropical Melastomataceae. Botany 2004, 31 July–5 August 2004, Snowbird, Utah.
3. Judd, W.S., **D.S. Penneys**, and J.D. Skean, Jr. Systematic diversity of *Miconia* (Melastomataceae) on Hispaniola. Botany 2004, 31 July–5 August 2004, Snowbird, Utah.

2. Almeda, F., R. Goldenberg, F.A. Michelangeli, **D.S. Penneys**, and S.S. Renner. Progress in *Miconia* (Melastomataceae): 1531 names, 1061 readily distinguishable entities. Systematics 2003. 4th Biennial Meeting of the Systematics Association, 18–23 August 2003, Dublin, Ireland.
1. **Penneys, D.S.**, and W.S. Judd. A cladistic analysis of *Charianthus* (Miconieae: Melastomataceae) using morphological and molecular characters. Botany 2001, 12–16 August 2001, Albuquerque, New Mexico.

Posters:
9. Chapman, A.N., and **D.S. Penneys.** Past, Present, and Future of the David J. Sieren Herbarium at UNC Wilmington. 79th Annual Meeting of the Association of Southeastern Biologist, 28–31 March 2018, Myrtle Beach, South Carolina.
8. Morales-P., M.E., **D.S. Penneys**, and W.S. Judd. *Chalybea*: caracteres que definem e sua história taxonomica. 67th Congresso Nacional de Botânica, 25–30 September 2016, Vitoria, Espírito Santo, Brasil.
7. Buddin, C., and **D.S. Penneys.** Plant-animal interactions: repeated evolutionary acquisitions of complex character suites in a tropical flowering plant family (Melastomataceae). Botany 2015, 25–29 July 2015, Edmonton, Canada.
6. Alvear, M., Almeda, F., **D.S. Penneys**, and F.A. Michelangeli. Colombia, a major center of diversity for neotropical Melastomataceae. Botany 2009, 25–29 July 2009, Snowbird, Utah.
5. **Penneys, D.S.** Molecules, morphology, mites, and epiphytes: Phylogeny and character evolution in the Blakeeae (Melastomataceae). Evolution: California Academy of Sciences and University of California–San Francisco. 17 April 2009, San Francisco, CA.
4. Sandino, T., M.E. Morales-P., X. Marquínez, and **D.S. Penneys**. Anatomía de inflorescencias y flores de algunas especies de *Blakea* P. Browne y *Topobea* Aubl. (Melastomataceae: Blakeeae). IV Congreso Colombiano de Botánica, 22–27 April 2007, Medellín, Colombia.
3. Sandino, T., M.E. Morales-P., X. Marquínez, and **D.S. Penneys**. Morfología de inflorescencias y flores de algunas especies de *Blakea* P. Browne y *Topobea* Aubl. (Melastomataceae: Blakeeae). IV Congreso Colombiano de Botánica, 22–27 April 2007, Medellín, Colombia.
2. Morales-P., M.E., **D.S. Penneys**, F.A. González G., and W.S. Judd. Filogenía de *Huilaea* Wurdack y *Chalybea* Naudin (Melastomataceae) y reevaluación de su condición endémica para Colombia. IV Congreso Colombiano de Botánica, 22–27 April 2007, Medellín, Colombia.
1. **Penneys, D.S.**, W.M.Whitten, N.H. Williams, and W.S. Judd. *Huilaea* and the Blakeeae (Melastomataceae): phylogenetic relationships reconsidered. Botany 2004, 31 July–5 August 2004, Snowbird, UT.

Grants and Awards:
2018 UNCW – Faculty International Travel Grant (Congreso Latinoamericano Botanica, Ecuador). $1200
2018 UNCW – Friends of UNCW (DNA sequencing). $1080
2018 UNCW – CSURF Research Supplies (herbarium digitization. PI: John McLaughlin). $340
2018 National Science Foundation – Collaborative Research: Plant discovery in the southern Philippines. NSF DEB-1754697 ($950,000 to BRIT) and NSF DEB-1754667 ($350,000 to UNCW). PI: P.W. Fritsch. Co-PIs: **D.S. Penneys**, D.L. Nickrent, T. Quedensley. $1,300,000
2017 UNCW – Charles L. Cahill Grant (Herbarium digitization). $5000
2017 UNCW – Faculty International Travel Grant (China & Borneo). $1000
2016 UNCW – Biology & Marine Biology Equipment Grant (stereomicroscopes). $5100
2016 UNCW – The Green Initiative Fund (plant systematics garden. PI: Michael Torbett). $2000
2016 UNCW – Faculty International Travel Grant (Flora Malesiania conference). $1000
2016 UNCW – Friends of UNCW (plant systematics garden). $1200 (declined)
2015 National Science Foundation – Plant-animal interactions, phylogenetics, and biogeography in the Merianieae (Melastomataceae). NSF DEB-1532654 (preliminary proposal invited and full

proposal submitted. Declined.). **PI: D.S. Penneys**. Co-PIs: N. Mucchala, C. Ulloa, F.A. Michelangeli, P.W. Fritsch

2014 California Academy of Sciences – Lakeside Foundation Award. $90,340

2012 National Science Foundation – Assessing phylogeny and biogeography in a megadiverse tropical plant family (Melastomataceae). NSF DEB-1146409. **PI: D.S. Penneys**. Co-PIs: F. Almeda, P.W. Fritsch, F.A. Michelangeli. $545,200; $111,573 transferred to UNCW, new grant number NSF DEB-1543721.

2011 Global Biodiversity Information Facility – Travel Award. $1200

2010 Horne Family Foundation. $7500

2010 California Academy of Sciences – Lindsay Award for Field Research. $4600

2009 California Academy of Sciences – Lindsay Award for Field Research. $5000

2006 National Science Foundation – Deep Time Travel Award. $500

2005 National Science Foundation – Doctoral Dissertation Improvement Grant. Phylogeny and character evolution in the Blakeeae (Melastomataceae): Neotropical hemiepiphytes with mite and ant domatia. NSF DEB:0508582. $12,000

2005 New England Botanical Club – Merritt Lyndon Fernald Award for best paper published in volume 106 of Rhodora. $1500

2004 Botanical Society of America – Karling Award. $500

2004 American Society of Plant Systematists – Graduate Student Research Grant. $900

2004 National Science Foundation – Deep Time Travel Award. $500

2002 University of Florida – Graduate Student Teacher Award. $750

2002 National Science Foundation – Deep Time Travel Award. $500

2001 National Science Foundation – Deep Time Travel Award. $500

Other Honors and Eponyms:

2013 Cover photograph. International Journal of Plant Sciences 174 (5). (*Blakea anomala* Donn. Sm.)

2010 Cover photograph. Brittonia 62 (1). (*Huilaea calyptrata* Penneys & M.E. Morales)

Epidendrum penneystigma Hágsater & García-Cruz. *In*: Icones Orchidacearum, fasc. 3 (2): t. 368. 1999. (Orchidaceae).

Graffenrieda penneysii Michelang. & C. Ulloa. Phytotaxa 77 (3): 44. 2013. (Melastomataceae).

Sphagnum apopenneysii B.C. Tan, Ignatov, Ignatova & B. Mishler. Philippine Journal of Systematic Biology 12(1): 34. 2018. (Sphagnaceae).

Professional Affiliations:

American Society of Plant Taxonomists
Asociación Latinoamericana de Botanica
Botanical Society of America
International Association of Plant Taxonomists
National Science Teachers Association
North Carolina Native Plant Society
Society of Herbarium Curators
Society of Systematic Biologists

Contributor:

Checklist of New Guinea Plants: Melastomataceae treatment
Global Biodiversity Information Facility (GBIF): Melastomataceae treatment
MelList, a complete taxonomy of Melastomataceae sensu lato (Myrtales, eurosids, flowering plants) for the Electronic Catalogue of Names of Known Organisms
Flora Malesiana: Melastomataceae
Flora Neotropica: Monograph of the Blakeeae
PBI: A complete web-based monograph of the tribe Miconieae (Melastomataceae): NSF DEB: 0818399.

$2,999,756

A phylogenetic analysis of the Miconieae (Melastomataceae) based on molecular and morphological characters: NSF DEB: 0515665. $178,273

Deep Time: A comprehensive phylogenetic tree of living and fossil angiosperms: NSF IOB: 0090283. $499,351

Reviewer:

Adansonia, Anais da Academia Brasileira de Ciências, Brittonia, Bulletin of the Torrey Botanical Society, Caldasia, Flora de Colombia, Journal of the Botanical Research Institute of Texas, Kew Bulletin, Nordic Journal of Botany, Novon, Phytokeys, Phytotaxa, Proceedings of the California Academy of Sciences, Revista de Biología Tropical/International Journal of Tropical Biology and Conservation, Revista Peruana de Biología, Selbyana, Systematic Botany.

Theses:

Phylogeny and character evolution in the Blakeeae (Melastomataceae): Neotropical hemiepiphytes with mite and ant domatia. Ph.D. dissertation, University of Florida, Gainesville, FL. Committee: Walter S. Judd (Chair), Douglas E. Soltis, Frank Almeda, Norris H. Williams, Jon Reiskind.

A systematic revision and cladistic analysis of *Charianthus* (Miconieae: Melastomataceae) using morphological and molecular characters. Master's Thesis, University of Florida, Gainesville, FL. Committee: Walter S. Judd (Chair), J. Dan Skean, Jr., Norris H. Williams, Jon Reiskind.

Television:

In September, 2011, filmed pilot episode of "Wicked Plants." This was to be a documentary television series devoted to searching for deadly plants and describing cases of poisoning with historical significance. Examples include Socrates who died from drinking poison hemlock (*Conium* sp.), Bulgarian journalist Georgi Markov who was murdered after being jabbed by an assassin's ricin (*Ricinus communis*)-laced umbrella tip, and Abraham Lincoln's mother who died from milk sickness caused by snakeroot (*Ageratina altissima*).

Languages:

French, Spanish, working knowledge of Biological Latin, Portuguese.

Travels and Field Work (number of trips / total number of weeks):

Americas: Bolivia (1 / 3), Canada (2 / 4), Colombia (2 / 5), Costa Rica (lived there for three years 1994-1996, afterwards, 2 / 6), Dominica (1 / 2), Ecuador (5 / 13), French Guiana (1 / 4), Martinique (1 / 2), Mexico (4 / 7), Nicaragua (4 / 3), Panama (1 / 5), Peru (1 / 3), Puerto Rico (1 / 1), U.S.A. (all states except Alaska and Kentucky); **Europe:** Andorra (1 / 0.1), Austria (1 / 1), Belgium (2 / 1.5), England (2 / 2), France (lived there for one year 2007-2008, otherwise 4 / 5), Germany (1 / 0.5), Holland (3 / 3), Italy (1 / 2), Monaco (1 / 0.5), Scotland (1 / 2), Spain (3 / 2), Switzerland (1 / 0.5); **Asia:** China (mainland, 1 / 4; Hong Kong, 1 / 0.2), Indonesia (1 / 2), Malaysia (Sabah, 1 / 4), Philippines (2 / 9), Singapore (1 / 1.5), Taiwan (1 / 0.1), Vietnam (1 / 2.5).