

Darin S. Penneys
curriculum vitae – May 2014

Contact Information:

California Academy of Sciences
55 Music Concourse Drive
San Francisco, California 94118
google: http://scholar.google.com/citations?user=fi_kDkAAAAAJ&hl=en

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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, some of which I recently discovered. I am especially interested in character evolution, particularly as pertains to plant-animal interactions and ecology.

Education:

2008-2010	Postdoc	California Academy of Sciences
2007-2008	Postdoc	Université Paul Sabatier / Centre National de la Recherche Scientifique (CNRS)
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-	<u>Assistant Professor</u> , Department of Biology and Marine Biology, University of North Carolina - Wilmington
2006-2007	<u>Graduate Teaching Assistant, Local Flora of North Florida</u> , Department of Botany, University of Florida (Lecture & lab)
2003	<u>Instructor, Biology I. Cells, Organisms, & Genetics</u> , Department of Biological Sciences, University of Florida (Lecture)
2001-2002	<u>Instructor, Local Flora of North Florida</u> , Department of Botany, University of Florida (Lecture & lab)
2000	<u>Graduate Teaching Assistant: Tropical Botany</u> , Department of Botany, University of Florida (Lab)
2000	<u>Graduate Teaching Assistant: Introductory Plant Systematics</u> , Department of Botany, University of Florida (Lab)
1998-1999	<u>Graduate Teaching Assistant: Integrated Principles of Biology I</u> , Department of Biological Sciences, University of Florida (Lab)
1996	<u>Teaching Assistant, Tropical Biology</u> , Council on International Educational Exchange, Monteverde, Costa Rica (Lecture & lab)
1995	<u>Teaching Assistant, Tropical Dendrology</u> , 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.

Université Paul Sabatier, Toulouse, France:

M.Sc. students: Diana Bailleul, Marie LeCoz.

University of Vienna, Austria:

M.Sc. student: Agnes Dellinger.

University of Santo Tomas, Manila, Philippines:

M.Sc. student: Jefte C. Arshed.

Research Experience:

- 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.

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

Publications:

31. Almeda, F., M. Alvear, **D.S. Penneys**, and F.A. Michelangeli. Melastomataceae. *In*: R. Bernal (ed.). Catalogue of the plants of Colombia. Submitted.
30. Morales-Puentes, M.E., **D.S. Penneys**, W.S. Judd, and F. González. Revisión taxonómica del clado *Chalybea/Huilaea* (Melastomataceae: Blakeeae). *Revista de la Academia Colombiana de Ciencias Exactas, Fisicas y Naturales*. In press.
29. Dellinger, A.S., **D.S. Penneys**, Y.M. Staedler, L. Fagner, W. Weckwerth, and J. Schoenenberger. A specialized bird pollination system with a bellows mechanism for pollen transfer and staminal food body rewards. *Current Biology* 24: 1-5. [doi: 10.1016/j.cub.2014.05.056]
28. Almeda, F., and **D.S. Penneys**. 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-Yáñez, and P.M. Jørgensen (eds). *Libro rojo de las plantas endémicas del Ecuador*, II Edition. Publicaciones del Herbario QCA, Pontificia Universidad Católica del Ecuador, Quito.
21. Judd, W.S., G.M. Ionta, J.D. Skee, 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. Henrietteae (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. Skee, Jr., **D.S. Penneys**, and F.A. Michelangeli. 2008. A new species of *Henriettea* (Melastomataceae) from the Sierra de Baoruco, the Dominican 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. Skee, 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. Yatskiyevych. 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. Skee, 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. Skee, Jr. 2004. Rediscovery of *Ossaea alloetricha*, 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>
 1. **Penneys, D.S.** 1996. A guide to the common flowering plant families of Monteverde, Costa Rica. Published by the author. 65 pp.

Presentations:

27. Dellinger, A., **D.S. Penneys**, and J. Schönenberger. Floral food-bodies and a special pollen dispersal mechanism in bird-pollinated *Axinaea* (Melastomataceae). Botany 2014, 27 July – 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 July – 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 July – 31 July 2013, New Orleans, Louisiana.
22. Majure, L., W.S. Judd, G. Ionta, J.D. Skee, 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 July – 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. Skee, 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. Skee, Jr, and E. Bécquer-G. Estudios filogenéticos em Miconieae (Melastomataceae). 56 Congreso Nacional de Botánica, October 2005, Curitiba, Brasil.
 4. **Penneys, D.S.**, F.A. Michelangeli, W.S. Judd, and J.D. Skee, Jr. Henrietteae, 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. Skee, 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:

7. 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.
6. **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.
5. 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.
4. 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.
3. 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.
2. Morales-P., M.E., **D.S. Penneys**, W.S. Judd, and F.A. González-G. Estudio preliminary de las relaciones filogenéticas de los géneros *Huilaea* Wurd. y *Chalybea* Naud. en la tribu Blakeeae (Melastomataceae). IX Congreso Latinoamericano de Botánica, 18 – 25 June 2006, Santo Domingo, Dominican Republic.
1. **Penneys, D.S.**, W.M. Whitten, N.H. Williams, and W.S. Judd. *Huilaea* and the Blakeeae (Melastomataceae): phylogenetic relationships reconsidered. Botany 2004, July 31 – August 5 2004, Snowbird, UT.

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*).

Grants and Awards:

- 2014 California Academy of Sciences – Lakeside Foundation Award. \$90,000
- 2014 National Science Foundation – Plant-animal interactions, phylogenetics, and biogeography in the Merianieae (Melastomataceae). NSF DEB-1328149 (Declined). **PI: D.S. Penneys**. Co-PIs: N. Mucchala, C. Ulloa, F.A. Michelangeli, P.W. Fritsch
- 2012 National Science Foundation – Assessing phylogeny and biogeography in a megadiverse tropical plant family (Melastomataceae). NSF DEB-1146409. \$545,200. **PI: D.S. Penneys**. Co-PIs: F. Almeda, P.W. Fritsch, F.A. Michelangeli
- 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 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 Deep Time Travel Award. \$500
2002 Graduate Student Teacher Award, University of Florida. \$750
2002 Deep Time Travel Award. \$500
2001 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 calyptрата* Penneys & M.E. Morales)
Graffenrieda penneysii Michelang. & C. Ulloa. *Phytotaxa* 77 (3): 44. 2013.
Epidendrum penneystigma Hágsater & García-Cruz. *In: Icones Orchidacearum*, fasc. 3 (2): t. 368. 1999.

Professional Affiliations:

American Society of Plant Taxonomists
Botanical Society of America
International Association of Plant Taxonomists
National Science Teachers Association
Society of Systematic Biologists

Contributor:

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 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, Brittonia, Caldasia, Journal of the Botanical Research Institute of Texas, 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

Travels (Number of trips / total number of weeks):

Americas: Bolivia (1 / 3), Canada (1 / 3), Colombia (2 / 5), Costa Rica (lived there for three years 1994-1996, afterwards, 2 / 6), Dominica (1 / 2), Ecuador (3 / 10), French Guiana (1 / 4), Martinique (1 / 2), Mexico (3 / 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), Spain (3 / 2), Switzerland (1 / 0.5); **Asia:** China (mainland, 1 / 4; Hong Kong, 1 / 0.2), Indonesia (1 / 2), Philippines (2 / 9), Taiwan (1 / 0.1), Vietnam (1 / 2.5).

Languages:

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