

CURRICULUM VITAE

Zachary Scott Rogers

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EDUCATION:

Degrees

- 2003 M.S. – Biology, Plant Systematics, Ecology, and Evolution, University of Missouri-St. Louis, St. Louis, Missouri.
1999 B.S. – Biology, University of Missouri-Columbia, Columbia, Missouri.

Additional Certificates and Coursework

- 2009–2010 Certificate in University Teaching (1-year program including four courses and a 1-semester teaching practicum), University of Missouri-St. Louis, St. Louis, Missouri.
2006 Graduate Certificate in Tropical Biology and Conservation, University of Missouri-St. Louis, St. Louis, Missouri.
2006 Conservation Internship, The Nature Conservancy, Godfrey, Illinois (Topic: Floristic inventory and monitoring of tallgrass prairie in Western Illinois).
2001 Course in botanical illustration, Missouri Botanical Garden, St. Louis, Missouri.
2000 Certificates in Intermediate and Advanced ArcGIS, and ArcView Spatial Analyst. Environmental Systems Research Institute, St. Charles, Missouri.
2000 Course in Website Design, St. Louis Community College–Meramec Campus, St. Louis, Missouri.

PROFESSIONAL EXPERIENCE:

Curatorial & Plant Science

- 2018–present
Curator: Department of Animal & Range Sciences, College of Agricultural, Consumer and Environmental Sciences, Knox Hall, Room 202, Box 30003, MSC 3-I, Las Cruces, New Mexico, 88003-8003
2011–2017
Curatorial Assistant: Africa & Madagascar Program Coordinator, Research and Conservation Division, Missouri Botanical Garden, P.O. Box 299, St. Louis, Missouri, 63166. Telephone: (314) 577-9462.
2002–2011
Research Specialist: Africa & Madagascar Program Coordinator, Research and Conservation Division, Missouri Botanical Garden.

1999–2002 Herbarium Assistant: Ecuador Project Coordinator, Research and Conservation Division, Missouri Botanical Garden.

Teaching

2017

Fall Assistant Professor (Temporary Faculty), Department of Animal & Range Sciences, New Mexico State University, Las Cruces, New Mexico. Courses taught: *Rangeland Plants* - RGSC 316 (Lecture and Laboratory).

2010

Spring Instructor (Adjunct Faculty), Department of Biology, University of Missouri-St. Louis, St. Louis, Missouri. Course taught: *Introductory Biology* (laboratory). During the semester, took part in a supervised teaching practicum satisfying one of the requirements for the Certificate in University Teaching.

Summer Instructor (Adjunct Faculty), Department of Biology, University of Missouri-St. Louis, St. Louis, Missouri. Course taught: *Introductory Biology* (lecture). Intensive 4-week course.

Winter Instructor (Adjunct Faculty), Department of Biology, St. Louis Community College-Meramec Campus, St. Louis, Missouri. Courses taught: *Human Anatomy and Physiology I* (lecture and laboratory).

2004–Mar 2017

Presented occasional lectures on botanical subjects and provided technical talks on various topics (e.g., data analysis, collection management, GIS, field work techniques) training to students and staff, mentored several students in Madagascar, St. Louis, etc., which resulted in a few co-published articles.

Fieldwork and collecting

1999–present

- 7,000+ personal herbarium specimens collected (1st set of ca. 2000 numbers deposited at MO, sub ZSR).
- 10,000+ additional collections as a co-collector.
- more than 20 months spent conducting biodiversity and systematic fieldwork, e.g., collecting vouchers & related materials (pressed, pickled, photos, bulk).
- Areas: Madagascar, South Africa, Ecuador, Mexico, USA, Europe.

Editorial

2006–present

Editor, *Adansonia* – a biannual peer-reviewed journal of plant biology, devoted to the inventory, analysis, and interpretation of vascular plant biodiversity, Muséum national d'Histoire naturelle, Paris, France.

2001–present

Scientific Editor & Reviewer: 80+ scientific articles covering a wide variety of biological topics for numerous journals – *Acta Botanica Feniçi*, *Annals of the Missouri Botanical Garden*, *Candollea*, *Harvard Papers in Botany*, *Journal of the Botanical Research Institute of Texas*, *Kew Bulletin*, *Monographs in Systematic Botany from the Missouri Botanical Garden*,

Novon, Pacific Science, PhytoKeys, Phytotaxa, Sida, Systematic Botany, Taiwania, etc.

AWARDS AND GRANTS (as PI or Co-PI):

- 2018 National Science Foundation Grant (\$422,960). Program: *Collections in Support of Biological Research (CSBR): Natural History Collections* – Co-PI, Project title: “Consolidating, modernizing and harnessing the full potential of the two herbarium collections at New Mexico State University.”
- 2011 National Geographic Society Exploration Grant (\$23,000) – Co-PI, Project title: “A botanical exploration and ethnobotanical survey of Analavelona, a sacred humid forest of Southwest Madagascar.”
- 2010 Botanical Research Institute of Idaho, \$3,000 towards the publication costs of a book entitled “A Worldwide Synopsis of Thymelaeaceae.”
- 2009 Botanical Research Institute of Idaho, \$3,500 towards ZSR collecting trip in Madagascar, South Africa, and \$2300 toward herbarium research.
- 2008 Botanical Research Institute of Idaho, \$5,000 towards collecting trip in South Africa and Madagascar.
Botanical Research Institute of Idaho, \$4,500 towards ZSR herbarium research.
- 2007 Botanical Research Institute of Idaho, facilitated donations of \$30,000 for MBG-Madagascar Program, and \$20,000 for the Parc Tsimbazaza, Antananarivo, Madagascar (Herbarium: TAN).
- 2006 Botanical Research Institute of Idaho, ca. \$7500 towards ZSR fieldwork and research; \$20,000 for the Parc Tsimbazaza (Herbarium: TAN).
- 2003 John Denver Memorial Scholarship, \$3000, International Center for Tropical Ecology, University of Missouri-St. Louis, St. Louis, Missouri.

SELECTED AWARDS AND GRANTS (as collaborator):

- 2004–2008,
2012 The Andrew W. Mellon Foundation. Catalogue of the Vascular Plants of Madagascar.
- 2008 Ambatovy Mine Project. Flora Species Extinction Avoidance Program: Species of Concern Management.
- 2007 U.S. National Science Foundation. Vahinala Project: A Catalogue of the Vascular Plants of Madagascar.
- 2007 Richard and Rhoda Goldman Fund. Orphan conservation sites in Madagascar: filling key gaps to ensure a comprehensive network of protected areas.
- 2007 John D. and Catherine T. MacArthur Foundation. The Effects of Global Climate Change on the Plants of Madagascar: Detecting Changes, Projecting Impacts, and Developing Responses.
- 2004 National Geographic Society, Committee for Research and Exploration. Botanical Inventory of the Kalambatritra Massif, Madagascar.
- 2003 John D. and Catherine T. MacArthur Foundation. Building National Capacity for Plant Conservation Assessment and Action in Madagascar.
- 2001–2002 Liz Claiborne and Art Ortenberg Foundation. Continued support for Missouri Botanical Garden’s Madagascar Research and Conservation

- Program.
- 2001–2002 Critical Ecosystem Partnership Fund. Assessment of Priority Areas for Plant Conservation in Madagascar, and Mapping the Vegetation of Madagascar.
- 2001 U.S. National Science Foundation. A botanical survey of Madagascar's endangered littoral forest.
- 2001 National Geographic Society, Committee for Research and Exploration. Towards a Flora Antongilensis.

OTHER APPOINTMENTS AND ACHIEVEMENTS:

2017

Mar–2018 May

Research Affiliate: Department of Biology, New Mexico State University, Las Cruces, New Mexico.

2017

Mar–present

Research Associate: Plant Research and Conservation Division, Missouri Botanical Garden, St. Louis, Missouri.

Jan–Feb

Invited Researcher: Curation of Thymelaeaceae collection, Botany Department, Smithsonian Institution, Washington, DC.

2012–2015

Research Associate: Department of Biology, Indiana University, Bloomington, Indiana.

2011

Mar–Apr

Invited Researcher: Herbarium research at the Swedish Museum of Natural History, Stockholm, Sweden; Bergius Foundation, Stockholm, Sweden; Uppsala University, Uppsala, Sweden.

2008

Mar

Preproposal accepted for a National Geographic Society Exploration Grant (\$20,000) – PI, Project title: “A botanical inventory of the Mandrare Basin Region in southeastern Madagascar.”

Apr–May

Invited Researcher: Herbarium research at The National Museum of Natural History, London & The Royal Botanic Garden, Kew & The Geneva Conservatory and Botanical Garden.

2007

May–June

Invited Researcher: Herbarium research at the National Museum of Natural History, Paris, France.

ORGANIZED MEETINGS AND PRESENTATIONS (selected):

2018

August

Society for the Preservation of Natural History Collections 2018 Conference, Dunedin, New Zealand. Presented Talk: “Shining a New Light on E.O. Wooton’s Legacy Herbarium and Historical Archive” (co-author).

2018

May

Native Plant Society of New Mexico-Las Cruces Chapter, Las Cruces, New Mexico. Invited speaker: “Madagascar: the Red Island ... a naturalist’s paradise.”

- 2010
Apr 19th AETFAT Congress: Systematics and Conservation of African Plants, Antananarivo, Madagascar. Poster presentation: “*Peponium*: an interesting genus of Cucurbitaceae from Africa, Madagascar, and the Seychelles.”
- 2007
Mar 5th Bolivian Biological Congress, La Paz, Bolivia. Poster presentation: “Dos especies nuevas de *Weinmannia* (Cunoniaceae) de los bosques montanos de Yungas en La Paz, Bolivia.”
- Feb 18th AETFAT Congress: Systematics and Conservation of African Plants, Yaoundé, Cameroon. Poster presentation: “New Genera of Woody Santalaceae from Madagascar.”

PROFESSIONAL ORGANIZATIONS:

- Society for the Preservation of Natural History Collections.
- Society of Herbarium Curators.
- New Mexico Native Plant Society (Las Cruces, Otero, El Paso).
- American Association of Plant Taxonomists.
- International Association for Plant Taxonomy.

FOREIGN LANGUAGES:

Familiarity with Spanish and French, spoken, read & written, especially natural history texts.

PUBLICATIONS (selected):

- Prabhukumar, K. M., Z. S. Rogers, V. S. Hareesh & I. Balachandran. 2018. Reinstatement and lectotypification of *Gnidia sisparensis* (Thymelaeaceae), a species endemic to India. *Phytotaxa* 372: 179–182. [doi: <http://dx.doi.org/10.11646/phytotaxa.372.2.5>].
- Fuentes-Soriano, S., L. Prihodko, M. Manford & Z. S. Rogers. 2018 [abstract]. Shining a new light on Elmer Ottis Wooton’s legacy herbarium and historical archive: an exercise to increase student participation while promoting public engagement. *Biodiversity Information Science and Standards*. [doi: 10.3897/biss.2.25783].
- Rogers, Z. S. & C. Hong-Wa. 2018. Typification of the endemic Malagasy species *Mediusella bernieri* (Baill.) Hutch. (Sarcolaenaceae). *Novon* 26: 14–15. [doi: 10.3417/2017050].
- Rogers, Z. S. 2017. *Phaleria stevensiana*: a distinctive new species of Thymelaeaceae endemic to Sulawesi, Indonesia. *Novon* 25: 473–481.
- Rogers, Z. S. 2014. Thymelaeaceae, P. 1232, in P. M. Jorgensen et al. (eds.), *Catálogo de las Plantas Vasculares de Bolivia*. Monographs in Systematic Botany from the Missouri Botanical Garden 127. Missouri Botanical Garden Press, St. Louis.
- Taylor, C. M. & Z. S. Rogers. 2013. Six new species of *Danais* Vent. (Rubiaceae, Danaideae). *Candollea* 68: 167–180.
- Rogers, Z. S. & M. Thulin. 2012. *Peltophorum dasyrhachis* (Miq.) Kurz: a new record of a Southeast Asian species of Fabaceae (Caesalpinioideae) naturalized in northwestern Madagascar. *Candollea* 67: 145–147.

- Rogers, Z. S. 2011. Thymelaeaceae, Pp. 900–901, in A. Idárraga et al. (eds.), *Flora de Antioquia, Catálogo de las Plantas Vasculares*, Volume 2, Series Biodiversidad y Recursos Naturales. Universidad de Antioquia, Missouri Botanical Garden & Oficina de planeación departamental de la Gobernación de Antioquia, Editorial D'Vinni, Bogotá, Colombia.
- Garg, A. & Z. S. Rogers. 2011. A palynological investigation of *Daphne papyracea* and *Daphne bholua* (Thymelaeaceae) in India. *J. Bot. Res. Inst. Texas* 5: 635–641.
- Ortiz, R. del C. & Z. S. Rogers. 2011. Cunoniaceae, Pp. 429–430, in A. Idárraga et al. (eds.), *Flora de Antioquia, Catálogo de las Plantas Vasculares*, Volume 2, Series Biodiversidad y Recursos Naturales. Universidad de Antioquia, Missouri Botanical Garden & Oficina de planeación departamental de la Gobernación de Antioquia, Editorial D'Vinni, Bogotá, Colombia.
- Rogers, Z. S., P. W. Sweeney & L. Gautier. 2011. Malagasy *Garcinia* (Clusiaceae) revisited: new combinations and lectotypifications. *Candollea* 66: 417–418.
- Bodine, S. A. & Z. S. Rogers. 2010. *Peponium*: an interesting genus of Cucurbitaceae from Africa, Madagascar, and the Seychelles. *Scripta Bot. Belg.* 46: 92.
[ABSTRACT]
- Rogers, Z. S. 2010. Nomenclatural notes on American Thymelaeaceae. *Novon* 20: 448–462.
- Rogers, Z. S. 2009. A revision of Malagasy *Gnidia* (Thymelaeaceae: Thymelaeoideae). *Ann. Missouri Bot. Gard.* 96: 324–368.
- Rogers, Z. S., D. L. Nickrent & V. Malécot. 2008. *Staufferia* and *Pilgerina*: Two new endemic monotypic arborescent genera of Santalaceae from Madagascar. *Ann. Missouri Bot. Gard.* 95: 391–404.
- Sweeney, P. W. & Z. S. Rogers. 2008. Nomenclatural notes on *Garcinia* (Clusiaceae) from Madagascar and the Comoros. *Novon* 18: 524–537.
- Zhang, M.-D., Y.-M. Shui, H.-W Li, Z. S. Rogers, W.-H. Chen & R.-M. Zhang. 2008. *Daphne hekouensis* (Thymelaeaceae), a new species from China. *Ann. Bot. Fenn.* 45: 296–298.
- Fuentes, A. F. & Z. S. Rogers. 2007. Dos especies nuevas de *Weinmannia* de los bosques montanos en La Paz, Bolivia. *Novon* 17: 326–331.
- Rogers, Z. S. & P. W. Sweeney. 2007. Two distinctive new species of Malagasy *Garcinia* (Clusiaceae). *Syst. Bot.* 32: 772–779.
- Berry, P. E., Z. S. Rogers & J. A. Steyermark. 2007. Thymelaeaceae, Pp. 537–538, in V. Funk et al. (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, Volume 55.
- Berry, P. E. & Z. S. Rogers [typ. err. as “J. S. Miller”]. 2007. Tepuianthaceae, P. 535, in V. Funk et al. (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, Volume 55.
- Consiglio, T., G. E. Schatz, G. McPherson, P. P. Lowry II, J. Rabenantoandro, Z. S. Rogers, R. Rabevohitra & D. Rabehevitra. 2006. Deforestation and plant diversity of Madagascar's Littoral Forests. *Conservation Biology* 20: 1799–1803.
- Rogers, Z. S., A. Randrianasolo & J. S. Miller. 2006. A new species of *Ludia* (Salicaceae) from Madagascar's eastern littoral forest. *Novon* 16: 409–412.

- Rogers, Z. S. & M. Spencer. 2006. Typification of Linnaean and Linnaeus filius plant names in Thymelaeaceae. *Taxon* 55: 483–488.
- Rogers, Z. S. 2006. A new species of Malagasy *Gnidia* and the lectotypification of *Octolepis decalepis* (Thymelaeaceae). *Adansonia* 28: 155–160.
- Rogers, Z. S. 2006. Thymelaeaceae, Pp. 400–401, in M. S. M. Sosef et al., *Checklist of Gabonese Vascular Plants*. Scripta Botanica Belgica, Volume 35. National Botanic Garden of Belgium.
- Rogers, Z. S., V. Malécot & K. G. Sikes. 2006. A taxonomic revision of *Olax* (Olacaceae) in Madagascar. *Adansonia* 28: 71–100.
- Berry, P. E. & Z. S. Rogers. 2005. Tepuianthaceae: Pp. 297–299, in J. A. Steyermark, P. E. Berry, K. Yatskievych & B. K. Holst. Gen. eds. *Flora of the Venezuelan Guayana*. Volume 9. Rutaceae-Zygophyllaceae. Vol. eds. P. E. Berry, K. Yatskievych & B. K. Holst. Monogr. Syst. Bot. Missouri Bot. Gard.
- Rogers, Z. S. 2005. A revision of *Octolepis* Oliv. (Thymelaeaceae, Octolepidoideae). *Adansonia* 27: 89–111.
- Rogers, Z. S., P. E. Berry & J. A. Steyermark. 2005. Thymelaeaceae: Pp. 332–342, in J. A. Steyermark, P. E. Berry, K. Yatskievych & B. K. Holst. Gen. eds. *Flora of the Venezuelan Guayana*. Volume 9. Rutaceae-Zygophyllaceae. Vol. eds. P. E. Berry, K. Yatskievych & B. K. Holst. Monogr. Syst. Bot. Missouri Bot. Gard.
- Rogers, Z. S. 2004. A revision of *Stephanodaphne* Baill. (Thymelaeaceae). *Adansonia* 26: 7–35. [based on graduate research].
- Rogers, Z. S., C. Antezana, J. R. I. Wood & S. G. Beck. 2004. A distinctive new species of *Ovidia* (Thymelaeaceae) from Bolivia. *Novon* 14: 332–336.
- Rogers, Z. S. & J. C. Bradford. 2004. *Weinmannia magnifica* and *Weinmannia aggregata* (Cunoniaceae): two distinctive new species from Madagascar. *Adansonia* 26: 83–91.
- Rogers, Z. S. 2002. A new species of *Weinmannia* (Cunoniaceae: Cunoniaceae) from southern Ecuador. *Novon* 12: 249–252.
- Rogers, Z. S. 2002. Two new species of *Weinmannia* (Cunoniaceae: Cunoniaceae) from southern Ecuador. *Sida* 20: 179–187.

Publications in press

- Rogers, Z. S. & V. Malécot. (accepted). Olacaceae and allied families (Aptandraceae, Ximeniaceae), in T. Deroin (ed.), *Flore de Madagascar et des Comores*, Muséum national d'Histoire naturelle, Paris.
- Rogers, Z. S. (accepted). A taxonomic reevaluation of the endemic genus *Solmsia* (Thymelaeaceae) in New Caledonia: one species or two? *Adansonia*, sér. 3.

Publications in preparation

- Rogers, Z. S. (in prep.). Taxonomic and nomenclatural notes in *Lethedon* (Octolepidoideae: Thymelaeaceae). *Ann. Missouri Bot. Gard.*
- Rogers, Z. S. (in prep.). Systematics of the American genus *Schoenobiblus* (Thymelaeaceae). *Ann. Missouri Bot. Gard.*
- Rogers, Z. S. (in prep.). Taxonomic revision of the *Synaptolepis*, an African lianescent genus of Thymelaeaceae. *Candollea*.
- Rogers, Z. S. (in prep.). A taxonomic revision of the African genus *Dicranolepis* (Thymelaeaceae, Thymelaeoideae). *Adansonia*.

Publications via websites

- [A World Checklist of Thymelaeaceae](#) (creator and administrator, 2009–present). [BRII Grant funded].
- [Deforestation and Plant Diversity of Madagascar's Littoral Forests](#) (collaborator and co-author of scientific reports and related publication, see Consiglio et al., 2006, reference included herein) [NSF funded].
- [A Catalogue of the Vascular Plants of Madagascar](#) (collaborator and author of various family treatments published online, e.g. Thymelaeaceae, Cunoniaceae, *Garcinia*) [NSF funded].
- [Gazetteer to Malagasy Botanical Collecting Localities](#) (data manager, 2002–2017).
- [Glossary of Botanical Terms in French and English](#) (data manager, 2002–2017).

RESEARCH INTERESTS:

- Curation, digitization and management of natural history collections
- Plant systematics, taxonomy, nomenclature
- Fieldwork, collecting biodiversity, floristic inventories
- Floras of the Southwestern United States and adjacent Northern Mexico
- Systematics of several angiosperm plant groups: Thymelaeaceae (ca. 1,000 species worldwide), *Weinmannia* (Cunoniaceae), African and Malagasy *Garcinia* (Clusiaceae), Santalales (parasitic plants), etc.
- Flora of Madagascar and its biodiversity conservation
- Molecular phylogenetics of Thymelaeaceae and *Tepuianthus*
- Plant anatomy (e.g., Light Microscopy, Scanning Electron Microscopy, etc.)
- Ethnobotany
- Vegetation/spp. analysis via GIS