

## CURRICULUM VITAE

### Armand Randrianasolo

#### General and Educational:

Born and raised in Vatomandry - Madagascar

Married, 3 children

Fluent in Malagasy, French and English

B.S. Biochemistry, 1988, University of Antananarivo, Madagascar.

M.S. Biology, 1993, University of Missouri -St Louis, Missouri, U.S.A.

Ph.D. Biology, 1998, University of Missouri-St Louis, Missouri, U.S.A.

#### Employment and Professional History:

- 2012-Present Adjunct Professor at Washington University in St. Louis.  
2012-Present Curator, William L. Brown Center, Missouri Botanical Garden  
2006-2012 Associate Curator, William L. Brown Center, Missouri Botanical Garden.  
2002-2006 Assistant Curator, William L. Brown Center, Missouri Botanical Garden.  
1998-2001 Postdoctoral Researcher, Applied Research Department, Missouri Botanical Garden.  
1995 Teaching Assistant, University of Missouri - St Louis, Missouri.  
1991-1998 Graduate Student, University of Missouri –St Louis, Missouri.  
1990-91 Research Botanist, Botanic and Zoologic Park of Tsimbazaza, Antananarivo - Madagascar.  
1980-1981 National Service, teacher at Public Middle School, Ilaka-Est, Vatomandry – Madagascar.

#### Field Experience:

- 1989 Research Field Assistant to Dr. James Miller, Curator at the Missouri Botanical Garden for the Floristic Inventory of the Marojejy National Park, Sambava – Madagascar.  
1990 Research Field Assistant to Dr. Robert Magill, Director of Research, Missouri Botanical Garden.  
Field Botanist at the Botanical and Zoological Parc of Tsimbazaza (PBZT) as part of team composed by the Missouri Botanical Garden and PBZT for mining impact assessment study in Southeast Madagascar.  
1991 Research Field Assistant to Dr. James Miller for a botanical expedition in the southern part of Madagascar.  
Field botanist from PBZT participating in the bioprospecting MBG Project.  
1992-1993 Fieldwork in Madagascar as part of Master's Thesis Project.  
1994 Preliminary Fieldwork in Madagascar for Ph.D. Research Proposal Project.  
1997 Fieldwork in Madagascar as part of Ph.D. Dissertation Research Project.  
1999 Field work in Madagascar and Tanzania (Africa) as part of Madagascar Red Data Book Project.  
2001 Fieldwork in eastern and southern Madagascar as part of research on Anacardiaceae.  
2002 - 2004 Fieldwork in Madagascar's littoral forests to establish/coordinate a community-based conservation project in Mahabo, eastern littoral forest of Madagascar.

- 2004 Fieldwork in Gabon (Lopé and Iguela reserves) and Madagascar. Floristic inventory of Ambalabe Forest, Eastern rainforest of Madagascar
- 2005 - Present Fieldwork to continue floristic inventory and to coordinate community-based conservation at Ambalabe forest.
- 2007 – 2009 Multiple trips for fieldwork in Madagascar for Ankeniheny botanical inventory project, supported by the National Geography Society.
- 2009 – 2011 Multiple trips for fieldwork in Madagascar for botanical and ethnobotanical inventories at Analavelona (Southwest Madagascar and Ambalabe forest (East Madagascar)).
- 2012 -2013 Multiple trip for fieldwork in Madagascar for botanical inventories as well as for plant conservation activities.
- 2014 - 2017 Fieldwork for plant collecting in Southern Madagascar as part of an inventory NGS project.
- 2019 Field work at Vohibe Forest Eastern as part of ongoing Lemur Study and Conservation with Anthropology Department of Washington University \_St Louis.

### **Grants obtained**

- 1996: Fellowship from the African Internship Awards Program, Rockefeller Foundation (\$18,000), given to support fieldwork in Madagascar for Ph.D. Research Project.
- The Garden Club of Allegheny County, Pittsburgh, PA, (\$500) to support fieldwork in Madagascar.
- 1998: National Geographic Society grant (\$15,000) to conduct fieldwork in Tanzania and Madagascar for Anacardiaceae study.
- 2002: Beneficia Foundation (\$28,000): Community-based conservation in Eastern littoral forests of Madagascar.
- 2003: Beneficia Foundation (\$40,000): Community-based conservation in Eastern littoral forests of Madagascar.
- 2003: Donation (\$5,000): Anacardiaceae Research.
- 2004: Beneficia Foundation (\$35,000): Community-based conservation in Eastern littoral forests of Madagascar.
- 2004: National Geographic Society (\$18,000): Botanical Inventory of Ambalabe-Ifasina forests.
- 2005: Beneficia Foundation (\$50,000): A community-based approach to natural resources management in Tropical Africa (with Gretchen Walters).
- 2005: Liz Claiborne & Ortenberg Foundation (\$56,450): Madagascar: from informing conservation to achieving conservation (with Dr. Chris Birkinshaw).
- 2006: Liz Claiborne and Ortenberg Foundation (\$42,000): Madagascar: from informing conservation to achieving conservation (with Dr. Chris Birkinshaw).
- 2006: Donation (\$1500): Anacardiaceae research.
- 2006: Beneficia Foundation (\$50,000): Community and Taxon-based approaches to conservation of natural resources in Madagascar and Gabon (with Gretchen Walters). Phase I

- 2007: National Geographic Society (\$22,000): Botanical Exploration of Ankeniheny Corridor Forest.
- 2007: Beneficia Foundation (\$70,000): Community and Taxon-based approaches to conservation of natural resources in Madagascar and Gabon (with Gretchen Walters). Phase II
- 2008: Beneficia Foundation (\$28,000): Community and Taxon-based approaches to conservation of natural resources in Madagascar and Gabon (with Gretchen Walters). Phase III
- 2009: Beneficia Foundation (\$35,000): Community and Taxon-based approaches to conservation of natural resources in Madagascar: the Ambalabe Conservation project.
- 2010: National Geography Society (\$23,000): Botanical exploration and ethnobotanical survey of Analavelona, a sacred sub-humid forest in southwest Madagascar.
- 2011: Beneficia Foundation (\$28,000): Conserving Analavelona Forest: a sacred and biodiverse sub-humid forest ecosystem in Southwestern Madagascar.
- 2013: National Geography Society ( \$22,550): Botanical Exploration of Betsimilaho-Anadabolava, a complex forest ecosystem in Southeast Central Madagascar.
- 2014: Cleveland Metroparks Zoo : Habitat restoration for eleven species of lemur in Vohibe forest, Ambalabe Community, Vatomandry Madagascar.
- 2017: National Geography Society (\$24,440): Continuing Botanical Explorations of the Hidden Treasures of the Vohimena Range Forests in SE Madagascar.

#### **Societal Membership:**

- 2004 – Member of ASTM (Association des Systematiciens et Taxonomistes de Madagascar).
- 2002 -04 Executive Secretary of Plant Specialist Group of Madagascar.
- 1994 – Member of the AETFAT (Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale).

#### **Publications:**

- Randrianasolo, A. & J. S. Miller. 1994. *Sarcolaena isaloensis*, a New species of Sarcolaenaceae from Isalo, South Central Madagascar. *Novon* 4: 290-294.
- J. S. Miller & A. Randrianasolo. 1998. New Taxa and Nomenclatural Notes on the Flora of the Marojejy Massif, Madagascar. Anacardiaceae: A new species of *Camptosperma*. *Novon* 8:170-172.
- Randrianasolo, A. & J. S. Miller. 1998. A revision of *Camptosperma* (Anacardiaceae) in Madagascar. *Adansonia*, sér. 3, 20(2): 285-293.
- Nilsson, S. & A. Randrianasolo. 1999. Morphology and Functional Aspects of Pollen in the Sarcolaenaceae. *Palaeoeco. Africa* 26: 191- 200.
- Randrianasolo, A. & J. S. Miller. 1999. Revision Taxonomic of the genus *Sarcolaena* (Sarcolaenaceae). *Ann. Missouri Bot. Gard.* 86 (3): 702 – 722.
- Randrianasolo, A. & J.S. Miller. 1999. A New Species of *Poupartia* (Anacardiaceae) from Madagascar. *Novon* 9: 546-548.
- Randrianasolo, A. 2000. A taxonomic revision of the Malagasy endemic genus *Micronychia* (Anacardiaceae). *Adansonia*, sér 3, 22(1): 145-155.
- Randrianasolo, A., J.S. Miller & Trisha Consoglio. 2002. Application of IUCN Criteria and Red List Categories on species of five Anacardiaceae genera in Madagascar.

- Biodiversity and Conservation Journal 11: 1289-1300.
- Randrianasolo, A. 2003. Anacardiaceae. In: The Natural History of Madagascar. S. M. Goodman & J. P. Benstead (eds.), Chicago Press, Chicago, pp. 398-402.
- Randrianasolo, A. & Porter P. Lowry II. 2004. A new species of *Camptosperma* Thwaites (Anacardiaceae) from northeastern Madagascar. *Adansonia*, sér 3, 26 (2): 213-216.
- S. Cao, J. K. Schilling, J. S. Miller, A. Randrianasolo, R. Andriantsiferana, V. E. Rasamison, and D. G. I. Kingston. 2004. New Cytotoxic Alkyl Phloroglucinols from *Protorhus thouvenotii*. *Planta Med.* 70: 683-684.
- Miller, J. S., A. Bradley, A. Randrianasolo, R. Randrianaivo and S. Rakotonandrasana. 2005. Sampling a diverse flora for novel biochemicals: an analysis of NCI collections from Madagascar. *Economic Botany* 59(3): 221-230.
- Randrianasolo, A. & P. P. Lowry II. 2006. *Operculicarya* (Anacardiaceae) revisited: an updated taxonomic treatment for Madagascar and the Comoro Islands, with descriptions of three new species. *Adansonia*, sér. 3, 28 (2): 359-371.
- John D. Mitchell, D. C. Daly, S. K. Pell & A. Randrianasolo. 2006. *Poupartioopsis* gen.nov. and its context in Anacardiaceae classification. *Systematic Botany* 31(2): 337-348.
- Zachary S. Rogers, A. Randrianasolo & J.S. Miller. 2006. New Species of *Ludia* (Salicaceae) from Madagascar's Eastern Littoral Forest. *Novon* 16: 409-412.
- Susan K. Pell, J.D. Mitchell, P.P. Lowry II, A. Randrianasolo, and L. E. Urbatsch. 2008. Phylogenetic splits of Malagasy and African Taxa of *Protorhus* and *Rhus* (Anacardiaceae) based on cpDNA trnL-trnF and nrDNA ETS and ITS Sequence data. *Systematic Botany* 33(2): 375-383.
- Randrianasolo, A. & P.P. Lowry II. 2009. Four new species and one new combination in the Malagasy endemic genus *Micronychia* Oliv. (Anacardiaceae). *Adansonia*, sér. 3, 31(1): 157-168.
- Randrianasolo, A. & P.P. Lowry II. 2010. A new species of *Ellipanthus* Hook.f. (Connaraceae) from humid forest in east-central Madagascar. *Adansonia*, sér. 3, 32 (2): 229-233.
- Mitchell, J.D., Douglas C. Daly, and A. Randrianasolo. 2012. The first report of *Spondias* native to Madagascar: *Spondias tefyi*, sp.nov. (Anacardiaceae). *Brittonia*, 64(3):263-267.
- Randrianasolo, A., P.P. Lowry II, G.E. Schatz, P.P. Phillipson & G.E. Wahlert. 2013. The lianescent species of *Grewia* L. (Malvaceae s.l, formerly Tiliaceae) in Madagascar. *Adansonia*, sé. 3, 35 (1): 73-85.
- Mendrika Razafindraibe, Alyse R Kuhlman, Harison Rabarison, Vonjison Rakotoarimanana, Charlotte Rajeriarison, Nivo Rakotoarivelo, Tabita Randrianarivony, Fortunat Rakotoarivony, Reza Ludovic, Armand Randrianasolo and Rainer W Bussmann. 2013. Medicinal plants used by women from Agnalazaha littoral forest (Southeastern Madagascar). *Journal of Ethnobiology and Ethnomedicine* 9:73. (<http://www.ethnobiomed.com/content/9/1/73>).
- Nivo H. Rakotoarivelo, A. Razanatsima, F. Rakotoarivony, A.Kuhlman, S. Andriambololonera, R. H. Ramananjanahary, A. Randrianasolo & R. W. Bussmann. 2013. Guide des plantes d'Ambalabe, Vol. 1, pp: 1-130. Missouri Botanical Garden.
- Porter P. Lowry II, Louis Nusbaumer, Armand Randrianasolo, George E. Schatz & Cynthia Hong-Wa. 2014. Endemic Families of Madagascar. XIII. New, restricted range species of *Eremolaena* Baill. and *Schizolaena* Thouars (Sarcocaulaceae). *Candollea* 69: 183-193.
- Nivo Rakotoarivelo, Aina Razanatsima, Fortunat Rakotoarivony, Lucien Rasoaviety, Aro Vonjy Ramarosandratana, Vololoniaina Jeannoda, Alyse R Kuhlman, Armand Randrianasolo and Rainer W Bussmann. 2014. Ethnobotanical and economic value of *Ravenala madagascariensis* Sonn. in Eastern Madagascar. *Journal of Ethnobiology and Ethnomedicine* 10:57

- Neil R. Crouch, Henrik Balslev, Kamal Bawa, Robert Bye, Sangay Dema, Edelmira Linares, Pei Shengji, Armand Randrianasolo & John Rashford. 2014. Multicultural perspectives on biocultural collections. In: Curating Biocultural Collections, A Handbook, eds. Jan Salick, Katie Konchar and Mark Nesbitt, pp. 263-267. Royal Botanic Gardens, Kew in association with Missouri Botanical garden, St Louis.
- Bussmann, R.W., Paniagua Zambrana, N., Applequist, W., Razafitsalama, J.L., Kuhlman, A., Andriamaharoa, H., Rakotoarivony, F., Razanatsima, A., Rakotoarivelo, N., Randrianasolo, A. 2015. Palms and palm use in Ambalabe, a community in Eastern Madagascar. *Ethnobotany Research and Applications*: 17-26.
- Randrianasolo, A. & P. P. Lowry II. 2015. A new species of *Operculicarya* H. Perrier (Anacardiaceae) from western dry forests of Madagascar. *Candollea* 70 (1): 57-60.
- Randrianasolo, A., P. B. Phillipson, P.P. Lowry II & M. Möller. 2017. *Streptocarpus peltatus* (Gesneriaceae), a Distinctive New Species from Southeastern Madagascar. *Novon* 26: 22-27.
- Randrianasolo A., A.A. Randrianasolo. 2017. Understanding the role of organizational legitimacy within the realm of the community-based conservation approach. *Madagascar Conservation & Development* 12(1):13-24. <http://dx.doi.org/10.4314/mcd.v12i1.2>
- Randrianasolo, A., P.P. Lowry II & G.E. Schatz. 2017. Taxonomic treatment of *Abrahamia* Randrian. & Lowry, a new genus of Anacardiaceae from Madagascar. *Boissiera* 71: 1-152.
- Nivo H. Rakotoarivelo, Tabita N. Randrianarivony, Fortunat Rakotoarivony, Armand Randrianasolo. 2019. "Mangidy": Malagasy folk beverages sold in Madagascar's market Places. *Ethnobotany Research & Applications* 18:29 (2019)

## Ongoing Research Project

Malagasy Anacardiaceae Treatment for the Flore de Madagascar et des Comores.

### List Supervised or co-advised students:

**University:** University of Antananarivo – Madagascar.

**Study Areas:** Ethnobotany – Taxonomy – Conservation

**Level:** Master's 6 and Doctoral students 2

RABEARIVONY Dimbilala Aina Nomenjanahary	MEDICINAL PLANTS USED BY MEN AT AMBALABE-VATOMANDRY, THEIR HEALTH REGENERATION AND ECOLOGICAL STATUS
RAVELOSON TOLONJANAHARY Felantsoa	ETHNOBOTANICAL STUDIES AND ECOLOGICAL STATUS ASSESSMENT OF SOME MEDICINAL SPECIES USED BY FEMALE HEALERS AND WOMEN AT AMBALABE-VATOMANDRY
RATSARALAZA	THE MOST USED MEDICINAL PLANTS OF THE NEW

Herisitrika Lanto Nahiana	PROTECTED AREA OF AGNALAZAHA (MAHABO-MANANIVO/FARAFANGANA). Ethnobotanical and ecological studies for conservation strategy
RAZAFINDRAIBE Nambinintsoa Mendrika	MEDICINAL PLANTS USED BY WOMEN IN AGNALAZAHA LITTORAL FOREST AND ITS SURROUNDINGS: ETHNOBOTANY - ECOLOGY FOR CONSERVATION
Tolojanahary Nirina Maria RANDRIAMIHARISOA	ETHNOBOTANICAL STUDY AND ECOLOGICAL STATUS ASSESSMENT OF SOME MEDICINAL PLANTS OF ANALAMANGA REGION
Nivo Hariniaina RAKOTOARIVELO	INVENTORY OF USEFUL AND MULTIPLE USES PLANTS, STUDY OF FOCUS WOODY SPECIES AT VOHIBE FOREST (AMBALABE-VATOMANDRY) AND THEIR EXTINCTION RISK ASSESSMENT
Tabita Noromalalaharivelo RANDRIANARIVONY	ETHNIC VALUE OF VEGETAL RESSOURCES IN THE SURROUNDING AND IN THE SACRED FOREST OF ANALAVELONA, A NEW PROTECTED AREA IN THE SOUTH WEST OF MADAGASCAR