

## Tanjona H. Ramiadantsoa

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INFORMATION Madison, WI 53706 USA [ramiadantsoa@wisc.edu](mailto:ramiadantsoa@wisc.edu)

EDUCATION **University of Wisconsin-Madison**, Madison, WI, USA

Postdoc., Department of Integrative Biology, 2016-2018

- Topics: *Abrupt Changes in Ecological Systems (ACES)*
- Advisors: Monica Turner, Prof. Anthony Ives, Prof. Steve Carpenter, Prof. John Williams, Prof. Chris Kucharick, Associate Prof.

**University of Minnesota**, Twin Cities, USA

Postdoc., Department of Ecology, Evolution, and Behavior, 2014-2016

- Topics: *Insect physiology, energy budget model, and phylogenetic comparative methods*
- Advisors: Emma Goldberg, Assistant Professor

**University of Helsinki**, Helsinki, Finland

Ph.D., Ecology and Evolutionary Biology, November 2015

- Thesis title: *Spatial processes in evolution, ecology and implications for conservation*
- Advisors: Otso Ovaskainen, Prof. and Ilkka Hanski, Prof.

**University of Antananarivo**, Madagascar

M.Sc., Combinatorics, April 2010

- Topic: *Flag major index on colored permutation group*
- Advisor: Arthur Randrianarivony, Prof.

B.Sc., Numerical Analysis, Decembre 2007

CONFERENCE **Ecological Society of America annual meeting 2017**

Portland, OR, USA. 5-11 August 2017

Speaker

**Ecological Society of America annual meeting 2016**

Fort Lauderdale, FL, USA. 7-12 August 2016

Speaker

**Midwest Mathematical Biology Conference**

La Crosse, WI, USA. 21-22 May 2016

Speaker

**International Prosimian Congress**

Ranomafana, Madagascar. 7-12 August 2016

## WORKSHOPS

### **Dynamics and Differential Equations**

Minneapolis, MN, USA. 22-25 June 2016

Organizers: Michael Jolly (Indiana U), Peter Polacik (U of Minnesota, Twin Cities), Geneviève Raugel (U de Paris XI), Roger Temam (Indiana U), Edriss Titi (Texas A & M U), Yingfei Yi (U of Alberta)

### **Mathematics for an Evolving Biodiversity**

Montréal, Canada. 16-20 September 2013

Organizers: Jonathan Davies (McGill), Amaury Lambert (UMPC Paris 6), Nicolas Lartillot (Montréal)

### **Qualitative Behaviour of Stochastic Systems and Applications**

Bielefeld, Germany. 18-20 June 2012

Organizers: Leonid Bogachev (Leeds, GBR), Benjamin Bolker (Hamilton, CAN), Yuri Kondratiev (Bielefeld, GER), Otso Ovaskainen (Helsinki, FIN)

### **Stochastic Demography in Fluctuating Environments: Theory and Empirical Patterns**

Lovund, Norway. 23-27 April 2012

Organizers: Norwegian University of Science and Technology, Centre for Conservation Biology

### **Assessing the Impacts of Climate Change on Madagascar's Biodiversity and Livelihoods**

Antananarivo, Madagascar. 28-31 January 2008

Organizers: Conservation International, WWF, WCS and USAID

### **Species Distribution Modeling: Methods for Conservation Biologists**

Antananarivo, Madagascar. 21-25 January 2008

Organizers: ReBioMa and University of Berkeley, California

## EXTERNAL COURSES

### **Issues in Diversity**

Oulu, Finland. 3-7 September 2012

Organizer: University of Oulu

### **Theory of Speciation: Helsinki Summer School 2012**

Turku, Finland. 19-26 August 2012

Organizers: Biomathematics Group, University of Helsinki

### **Markov Chain Stability and Applications: 22nd Jyväskylä Summer School**

Jyväskylä, Finland. 13-17 August 2012

Organizer: Faculty of Mathematics and Science and the Faculty of Information Technology at the University of Jyväskylä

### **Stochastic Differential Equations**

Lammi, Finland. 25-27 September 2010

Organizers: Finnish Doctoral Programme in Computational Sciences and National Graduate School in Materials Physics

### **Study abroad Madagascar**

Ranomafana, Madagascar. September-November 2007

Organizers: SUNY Stony Brook University

## REFEREED JOURNAL PUBLICATIONS

1. **Ramiadantsoa, T.**, Sirén, J., Hanski, I. 2017 "Phylogenetic comparative method for geographical radiation." *Annales Zoologica Fennici* 54:237-257

2. **Ramiadantsoa, T.** “Spatial processes in ecology and evolution, and implications for conservation.” 2015 Doctoral dissertation, University of Helsinki
3. **Ramiadantsoa, T.**, Ovaskainen, O., Rybicki J., Hanski, I., 2015 “Large-Scale Habitat Corridors for Biodiversity Conservation: A Forest Corridor in Madagascar.” *PLoS ONE*, 10(7): e0132126

SUBMITTED AND  
IN  
PREPARATIONS

1. **Ramiadantsoa, T.**, Stegner, A., Williams, J. W., Ives, T. “Theoretical perspectives on the drivers of past abrupt and quasi-synchronous tree decline.” In prep.
2. Ihantamalala, F. A., Rakotoarimanana, F. M, **Ramiadantsoa, T.**, Rakotondramanga, J.M., Pennober, G., Rakotomanana, F., Cauchemez, S., Metcalf, C. J. E., Herbreteau, V., Wesolowski, A. “Spatial and temporal dynamics of malaria in Madagascar” In prep.
3. **Ramiadantsoa, T.**, Goldberg, E. “Exploring the role of body size in shaping thermal performance of insects.” In prep.
4. **Ramiadantsoa, T.**, Hanski, I., Ovaskainen, O. “Responses of Generalist and Specialist Species to Fragmented Landscapes.” Under review for Theoretical Population Biology

PRESENTATIONS

Annual Meeting ESA, Portland, Oregon	2017
Biological Colloquium, University of Wisconsin-Madison	2017
Kellog Biological Station, Michigan	2016
Annual Meeting ESA, Fort Lauderdale, Florida	2016
Midwest Mathematical Biology Conference, La Crosse, WI	2016
Evolution Seminar, University of Minnesota	2014
Spring Symposium, Helsinki	2011, 2012, 2014
Biomathematics Day, Helsinki	2012, 2013
Interview and appearance in the journal <i>Finlands natur</i>	2010
Seminar at the American Embassy, Antananarivo	2007

TEACHINGS AND  
EXPERIENCES

Organizing committee	December 2016
$E^2M^2$ : Ecological and Epidemiological Modeling in Madagascar	
Centre ValBio, Ranomafana, Madagascar	
Organizing committee	January 2014
Introduction to Mathematical Ecology	
University of Antananarivo, Madagascar	
Organizing committee	March 2012
Spring Symposium	
University of Helsinki, Finland	
Teaching Assistant	Fall 2011-2012
Reserve Planning in the Tropics	
Instructor: Mar Cabeza, Ph.D.	
Centre ValBio, Ranomafana, Madagascar	

	Lecturer and Mentor	Fall 2011-2013
	Conservation Biology in Fragmented Landscapes	
	Topics: Extinction, Spatially Realistic Metapopulation Models	
	University of Helsinki, Finland	
	Field Assistant	Spring 2013
	Dung beetles survey	
	Mulu National Park, Borneo	
	Field Assistant	Fall 2010
	Wood-decaying fungi survey	
	Sundsvall, Sweden	
GRANTS	Institute on the Environment (IonE)	2015
	Using experiments to root mathematical models of environmental niches	
PEER REVIEWING	Oikos, Population Ecology, Journal of Applied Ecology, Plos ONE	
COMPUTER SKILL	C++, R, Mathematica, L <sup>A</sup> T <sub>E</sub> X, GitHub, ArcMap.	
LANGUAGE SKILL	Malagasy: Native	
	French: Fluent	
	English: Fluent	