Maggie Wiśniewska, Ph.D.

231 Brunswick Street, Apt.3, Jersey City, NJ 07302 maggie.wisniewska@gmail.com 484 - 725 - 9745

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Ph.D. in Biological Sciences - New Jersey Institute of Technology (NJIT), Newark, NJ Advisors: Drs. Gareth Russell and Simon Garnier
 Dissertation: The interplay of the physical landscape and social dynamics in shaping movement of African savanna elephants (Loxodonta africana)
 M.S. in Biology - Western Kentucky University (WKU), Bowling Green, KY Advisor: Dr. Bruce Schulte
 Thesis: Factors influencing travel order as proxy for leadership and trade-offs in activity budgets in lactating and nonlactating African savanna elephants
 B.S. in Biology - University of Texas (UT Austin), Austin, TX
 A.S. in Veterinary Technology - Manor College, Jenkintown, PA

Scientific Research Experience

2015 - 2021 Doctoral Researcher - NJIT

- Develop and lead multifaceted, computational research on movement behavior of groupliving animals (with special focus on savanna elephants)
- Set, tracked and adjusted self-imposed and external deadlines to meet project goals
- · Secured funding and managed budgets and expenses
- Formed international data-sharing collaborations

PA State Board of Veterinary Medicine Certification

- Analyzed remotely sensed data using maximum likelihood estimation and statistical modeling
- · Published and disseminated research at scientific conferences in the US and abroad

2014 Research Fellow - Utopia Scientific and Etosha National Park (ENP), Namibia

- Collaborated in research on behavioral ecology of savanna elephants
- Supervised day-to-day operations of a research team at a remote, research station
- Collected and analyzed behavioral, demographic and biological sample data
- Constructed photographic database of unknown elephant herds
- Co-wrote research manuscripts for publication
- Developed a set of recommendations for elephant management upon solicitation by ENP's personnel

2009 - 2011 Masters Researcher - WKU and Addo Elephant National Park (AENP), South Africa

- Developed and lead field research on socioreproductive behavior of savanna elephants
- Analyzed behavioral using with frequentist statistics
- Published research articles
- Disseminated research at scientific conferences in the US
- Coordinated research activities with AENP personnel and administrators at the local and regional levels
- Assisted in research on 1) behavior and conservation of black rhinoceros; and 2) the effects of lions predation on elephant sociality

2007 - 2009 Research Assistant - Brackenridge Field Laboratory (BFL), UT Austin

- Assisted in research on biocontrol of invasive fire ants
- Provided insect husbandry
- · Collected and curated behavioral data on interactions between fire ants and their parasites
- Established BFL's genomic laboratory and developed a genetic microsatellite library for various eusocial, behavior marker

2003 - 2005 Licensed Veterinary Technician - AMPM Animal Hospital, Austin, TX

- Practiced prophylactic, emergency and intensive care veterinary nursing
- Conducted case management and client education

Teaching Experience

reaching Exp	enence
2015 - 2021	Graduate Teaching Assistant - NJIT
	Courses: Concepts in Biology Recitation; Foundations of Ecology and Evolution Laboratory
	Tasks: Taught in person and virtual, lower- and upper-level lecture and laboratory courses;
	Created lesson plans and testing materials; Facilitated in-class discussion and guided
	students during in-class assignments; Graded assignments and provided feedback;
	Maintained student records; Held office hours
2014 - 2015	Instructor of Record - Warren County Community College, Washington, NJ
	Course: General Biology Lecture; Principles of Human Biology Laboratory and Lecture,
	Evolutionary Biology Lecture
	Tasks: Performed all tasks described above in lower-level lecture and laboratory courses
2012 - 2013	Instructor of Record - San Jose City College, San Jose, CA
	Courses: Human Biology Laboratory and Lecture; Ecology Lecture
	Tasks: Performed all tasks described above in lower-level lecture and laboratory courses
2012 - 2013	Instructor of Record - Cañada Community College, Redwood City, CA
	Courses: General Health Science
	Tasks: Performed all tasks described above in lower-level lecture and laboratory courses
2012 - 2013	Instructor of Record - Monterey Community College, Monterey, CA
	Courses: Organismal Biology Laboratory
0040	Tasks: Performed all tasks described above in a lower-level laboratory course
2012	Teaching Assistant - University of Notre Dame Research Center, Land O'Lakes, WI
	Course: Practicum in Field Ecology
	Tasks : Assisted in instruction of an upper-level field practicum course; Guided students
0000 0044	during field and desk research
2009 - 2011	Graduate Teaching Assistant - WKU
	Course: Ecology, Evolution and Biodiversity Laboratory
	Tasks: Assisted in instruction of a lower-level laboratory course; Facilitated in-class
	discussion and guided students during in-class assignments; Graded assignments and
	provided feedback; Maintained student records; Held office hours

Peer-Reviewed Publications

- **Wiśniewska M**, Puga-Gonzalez I, Lee P, Moss C, Russell G, Garnier S, Sueur C. "Simulating the effects of poaching on the functioning of African savanna elephant social networks." *PLoS Computational Biology*. 18 (1): e1009792
- **Wiśniewska M**, Freeman EW, Schulte BA. (2015). "Activity patterns among female African elephants: the role of age, lactational status and sex of the nursing calf." *Behaviour*, 152, 1719-44
- Wiśniewska M, Pridgen L, Eldridge J, Yates J, Hook M, Kem D, Schulte B. (2012).
 - "A primer of conservation Behavior, Blumstein D, Fernández-Juricic E." Biological Conservation, 148, 219-21
- O'Connell-Rodwell C, Freeman P, Kinzley C, Berezin J, Sandri M, **Wiśniewska M**, Jessup K, Rodwell T. "Digital photogrammetry of the craniofacial region offers a novel non-invasive technique for aging male African elephants." In review at *Mammalian Biology* journal
- O'Connell-Rodwell C, Sandri M, Berezin J, Munevar J, Kinzley C, Wood J, **Wiśniewska M**, Kilian W. "Hormonal and age driven responses of male African elephants (*Loxodonta africana*) to estrous call playbacks may inform conservation management tools." In review at *Animals* journal

Selected Conference Presentations

- **Wiśniewska M,** O'Connell-Rodwell C, Kilian W, Garnier S, Russell G. "Environmental and social drivers of movement in African savanna elephant a collective movement perspective." Virtual presentation Annual Conference of the Animal Behavior Society (ABS), 2021
- **Wiśniewska M,** O'Connell-Rodwell C, Kilian W, Garnier S, Russell G. "Environmental and social drivers of movement in African savanna elephant a collective movement perspective." Virtual presentation Animal Behaviour Live, 2020
- **Wiśniewska M**, Puga-Gonzalez I, Lee P, Moss C, Russell G, Garnier S, Sueur, C. "Simulating the effects of poaching on the functioning of African savanna elephant social networks" Presentation International Conference for Conservation Biology (ICCB), Kuala Lumpur, Malaysia, 2019

Wiśniewska M, Dykstra N, O'Bryan L, Cowlishaw G, King A, Garnier S, Russell G. "Social resource selection model - assessing the effects of the physical and social landscapes on individual movement in group living species." Poster - Annual Conference of ABS Milwaukee, WI, 2018

Wiśniewska M, Dykstra N, O'Bryan L, Cowlishaw G, King A, Garnier S, Russell G. "Teasing apart environmental and social influences during group movement in free-ranging animals." Presentation - ICCB, Cartagena, Colombia, 2017

Wiśniewska M, Freeman E, Schulte B. "Risk-sensitive behaviors as influenced by age and reproduction in female African elephants." Poster - Annual Conference of ABS, Princeton, NJ, 2014

Selected Awards and Fellowships

2021	College of Science and Libera Arts Outstanding Graduate Student Award, NJIT
2019	Graduate Student Travel Award, NJIT (US\$ 800)
2019	STEM Chateaubriand Fellowship, The Hubert Curien Interdisciplinary Institute, Strasbourg,
	France (€ 5000)
2018	Excellence in Instruction by Teaching Assistants Award, NJIT (US\$ 1500)
2018	Graduate Student Travel Award, The Annual Conference of ABS (US\$ 500)
2017	Initiative for Multidisciplinary Research Teams Application Award, Rutgers University
	Newark (US\$ 3000)
2011	Alltech Young Scientist, United States Zone 3rd Place Graduate Award, WKU (US\$ 300)

References

Gareth Russell, Ph.D. – Dissertation Research Mentor Associate Professor of Biology The Federated Department of Biological Sciences, NJIT russell@njit.edu

Maria Stanko, Ph.D. - Teaching Mentor

Senior University Lecturer
The Federated Department of Biological Sciences, NJIT
mstanko@njit.edu

Bruce Schulte, Ph.D. – Master's Research Mentor

Professor of Biology; Associate Vice-President for Strategy, Performance and Accountability The Biology Department, WKU bruce.schulte@wku.edu

Cédric Sueur, Ph.D. – Academic Collaborator

Associate Professor of Life Sciences

Department of Ecology, Physiology and Ethology, Université de Strasbourg, CNRS, IPHC, UMR 7178, Strasbourg, France

Cedric.sueur@iphc.cnrs.fr

Caitlin O'Connell-Rodwell, PhD - Academic Collaborator

Research Professor of Biology Harvard University Center for the Environment Co-founder of Utopia Scientific Caitlin_OConnell@meei.harvard.edu