

Elizabeth F. Ballare

EDUCATION

Doctor of Philosophy, 2021

Ecology and Evolution, Rutgers University, The State University of New Jersey

Title: Health effects of rehabilitation and release in Bornean orangutans (*Pongo pygmaeus wurmbii*)

Honors: Fulbright Student Research Scholar 2014 – 2015

Master of Science, transferred to Ph.D. Program

Ecology and Evolution, Rutgers, The State University of New Jersey

Title: Determining the phylogenetic status of *Odonata:Macromiidae*

Bachelor of Science, January 2007

Biology, Montclair State University

Honors: National Dean's List

AWARDS, FELLOWSHIPS, GRANTS

2019 Professional Development Award, Rutgers University **\$1,000**

2018 Professional Development Award, Rutgers University **\$971.25**

2017 Center for Human Evolutionary Studies Albert Fellows Dissertation Research Award **\$13,000**

2016 Margot Marsh Biodiversity Foundation **\$10,000**

2016 Riverbanks Zoo and Garden Conservation Support Fund **\$5,000**

2016 Cleveland Zoological Society and Cleveland Metroparks Zoo **\$2,500**

2014-2015 Fulbright Institute of International Education Student Research Scholarship **\$18,500**

2014 Fulbright Critical Language Enhancement Award **\$5,000**

2013 Center for Human Evolutionary Studies Small Grant **\$1,000**

RELEVANT WORK HISTORY

Postdoctoral Researcher, University of Geneva, Switzerland, 2021-present

Teaching Assistant, Rutgers University, New Jersey, USA, 2009-2014, 2016-2021

Tuanan Short Course, Aim High Academy Field Course, General Biology I and II, Molecular Foundations, Comparative Vertebrate Anatomy, Foundations in Ecology and Evolution, Introduction to Human Evolution, Fundamentals of Evolution, Extinction

Treasurer, CORE Borneo, New Jersey, USA, 2019 – present

Manages and oversees the financial affairs of CORE Borneo, a non-governmental organization which supports research efforts at the Tuanan Orangutan Research Station as well as environmental education, community development, and fire management within the Mawas Conservation Area in Central Kalimantan, Borneo, Indonesia.

Surgical Veterinary Technician, All Creatures Great and Small, New Jersey, USA 2006 – 2009

Prepped and monitored patients. In charge of pre- and post-operative care. Assisted doctor in surgeries. Drew blood, developed radiographs, gave vaccinations, filled prescriptions. Assisted doctor in examination rooms.

Intern, Center for Great Apes, Florida, USA, 2009

Worked with Chimpanzees (*Pan troglodytes*) and Orangutans (*Pongo pygmaeus*, *Pongo abelii*) rescued from entertainment industry or illegal pet trade. Participated in keeper responsibilities, emergency training, and clerical duties. Performed observations and collected behavioral and feeding data.

Research Assistant, Six Flags Great Adventure, New Jersey, USA, 2008

Assisted an MSc candidate in Primate Conservation at Oxford Brookes University, England with thesis research in behavioral study to determine effects of positive reinforcement training without removing individuals from their social group.

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PUBLICATIONS

Ballare, E.F., Brown, J., Alavi, S., Mitra-Setia, T., Al-Mubarak, F., Risfatul, U., Suad, Z., Tandang, M., Sihite, J., Vogel, E.R. (in prep): Protein and energy balance in rehabilitant and released Bornean orangutans (*Pongo pygmaeus wurmbii*) in Central Kalimantan, Indonesia.

Ballare, E.F., and Vogel, E.R. (in prep): Comparison of creatinine and specific gravity for standardizing urinary urea in rehabilitant Bornean orangutans (*Pongo pygmaeus wurmbii*).

Ballare, E.F., Frazee, L.J., Alavi, S., Utami Atmoko, S.S., Al-Mubarak, F., Risfatul, U., Suad, Z., Fachroni, A., Sihite, J., Moldawer, L., Vogel, E.R. (in prep): Urinary neopterin and cytokines as indicators of inflammation and immune system responsiveness in rehabilitant Bornean orangutans (*Pongo pygmaeus wurmbii*) in Central Kalimantan, Indonesia.

Ballare, E.F., and Nuamenko, D.J. (in prep): Urinary cytokine measurements: how to incorporate values below the limit-of-detection (LOD).

Ballare, E.F., Utami Atmoko, S.S., Husson, S., Nurcahyo, A., Vogel, E.R. (in prep): Habitat, health, behavior, and biology of rehabilitant and reintroduced Bornean orangutans (*Pongo pygmaeus wurmbii*) in Central Kalimantan, Indonesia: A Review.

Ballare, Elizabeth F. (2011): Aim High Academy: Summer Earth Ecology Program
ARGIA: The News Journal of the Dragonfly Society of the Americas, 23:3, 25-29.

Elizabeth F. Ballare & Jessica L. Ware (2011): Dragons fly, biologists classify:
an overview of molecular odonate studies, and our evolutionary understanding of dragonfly and damselfly (Insecta: Odonata) behavior, International Journal of Odonatology, 14:2, 137-147.

INVITED GUEST LECTURES

Ballare, E.F. (2015). *Orangutan Reintroduction: Challenges and Opportunities*. Universitas Gadjah Mada. May 22, 2015. Yogyakarta, Indonesia.

Ballare, E.F. (2013). *Orangutan Conservation in Borneo: Nutritional Adaptations to Declining Forest Habitats*. Invited Guest Lecture. University of Florida, College of Medicine. January 14, 2013. Gainesville, FL.

CONFERENCE PRESENTATIONS/POSTERS (*Postponed until 2021 due to COVID-19)

***Ballare, E.F.**, Prasetyo, D., and Vogel, E.R. (2020). *Evaluation of nutrition and health in rehabilitant and wild Bornean orangutans (Pongo pygmaeus wurmbii): current status and future recommendations*. Joint Meeting of the International Primatological Society and the Latin American Society of Primatologists. August 17-22, 2020. Quito, Ecuador.

Ballare, E. F., Jeffrey Brown, and Vogel, E.R. (2018). *Urea and C-peptide concentrations as a measure of protein balance and energetics in pre- and post-release Bornean orangutans (Pongo pygmaeus wurmbii)*. Columbia Rutgers Princeton Penn Yale Graduate Student Symposium. April 18, 2018. New Brunswick, NJ.

Ballare, E.F., Jeffrey Brown, and Vogel, E.R. (2018). *Urea concentration as a measure of protein balance in pre- and post-release Bornean orangutans (Pongo pygmaeus wurmbii)*. 87th Annual Meeting of the American Association of Physical Anthropologists Conference. April 11-14, 2018. Austin, TX.

Ballare, E.F. and Vogel E.R. (2017). *Stress in rehabilitated and released orangutan (Pongo pygmaeus wurmbii) populations in Central Kalimantan, Indonesia*. 1st Annual STEM Community Outreach Symposium at Rutgers. November 10, 2017. New Brunswick, NJ.

Ballare, E.F. and Vogel, E.R. (2017). *Cortisol variation in rehabilitated and released orangutans (Pongo pygmaeus wurmbii) in Central Kalimantan, Indonesia*. 3rd Annual Northeastern Evolutionary Primatologists Conference. November 27-28, 2017. Hartford, CT.

Ballare, E.F. and Vogel, E.R. (2017). *Urinary cytokine variation as indicator of immune function in rehabilitated Bornean orangutans (Pongo pygmaeus wurmbii)*. Annual Rutgers Princeton Penn Columbia Graduate Student Symposium. May 7, 2017. New York, NY.

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