

# Arjun B. Potter

## CONTACT

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Department of Biology, 226 Winston Hall  
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## EDUCATION

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- 2015 – 2022    PhD, Department of Ecology and Evolutionary Biology  
Princeton University, Princeton, NJ  
Dissertation Title: *Body Size and Diet Quality: The Interplay between Plant and Animal Traits*  
Advisor: Prof. Robert M. Pringle
- 2015 – 2017    MA, Department of Ecology and Evolutionary Biology  
Princeton University
- 2009 – 2012    BS Natural Resources *cum laude* with Distinction in Research  
Cornell University - CALS, Ithaca, NY  
Advisor: Prof. André A. Dhondt
- 2008 – 2009    College of the Atlantic, Bar Harbor, Maine

## PROFESSIONAL APPOINTMENTS

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- 2022 – present    Postdoctoral Associate, Department of Biology  
Wake Forest University, Winston-Salem, NC

## AWARDS AND HONORS

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- 2017 – 2020    NSF Graduate Research Fellowship, *National Science Foundation*
- 2015 – 2020    Centennial Fellowship, *Princeton University*
- 2018            Walbridge Fund Graduate Award, *Princeton Environmental Institute*
- 2015            First Year Fellowship, *Princeton University*
- 2012 – 2013    Fulbright U.S. Student Award to Indonesia, *U.S. Dept. of State.*
- 2012            Fulbright Critical Language Enhancement Award (for Indonesian) *U.S. Dept. of State.*
- 2011            Redheads Undergraduate Research Fund, *Cornell Lab of Ornithology, Ithaca, NY.*
- 2011            Dextra Undergraduate Research Fund, *CALS, Ithaca, NY.*
- 2008 – 2011    The Watershed Fund Scholarship, *The Watershed Fund, New Haven, CT*
- 2008            Explorer's Club Research Grant, *Explorers' Club, New York, NY.*
- 2008            Presidential Scholarship Award, *College of the Atlantic, Bar Harbor, ME.*
- 2008            Menunkatuck Award, *Menunkatuck Audubon Society, Branford, CT*
- 2007            Young Naturalist Award, *American Museum of Natural History, New York, NY.*

## PEER-REVIEWED PUBLICATIONS

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**Potter, A. B.**, & Pringle, R. M. (*in press*). Revisiting the Jarman-Bell Principle. *Peer-reviewed chapter in* H. H. T. Prins & I. J. Gordon (Eds.), *The Equids: a suite of splendid species*. Springer: Fascinating Life Series.

Pansu, J., Hutchinson, M. C., Anderson, T. M., te Beest, M., Begg, C. M., ..., **Potter, A. B.** et al. (2022) Generality of cryptic dietary niche differentiation in diverse large-herbivore assemblages. *Proceedings of the National Academy of Sciences*, 119, e2204400119.

Daskin, J. H., Becker, J. A., Kartzinel, T. R., **Potter, A. B.**, Walker, R. H., Eriksson, F. A. A., Buoncore, C., Getraer, A., Long, R. A., & Pringle, R. M. (2022). Allometry of behavior and niche differentiation among congeneric African antelopes. *Ecological Monographs*, e1549.

**Potter, A. B.**, Hutchinson, M. C., Pansu, J., Wursten, B., Long, R. A., Levine, J. M., & Pringle, R. M. (2022). Mechanisms of dietary resource partitioning in large-herbivore assemblages: a plant-trait-based approach. *Journal of Ecology*, 110(4), 817–832.

**Potter, A. B.**, Ali Imron, M., Pudyatmoko, S., & Hutchinson, M. C. (2021). Short-term plant-community responses to large mammalian herbivore exclusion in a rewilded Javan savanna. *PLOS ONE*, 16(7), e0255056.

Becker, J. A. L., Hutchinson, M. C., **Potter, A. B.**, Park, S., Guyton, J. A., Abernathy, K., ... Pringle, R. M. (2021). Ecological and behavioral mechanisms of density-dependent habitat expansion in a recovering African ungulate population. *Ecological Monographs*, 91(4), e01476.

Kihwele, E.S., Mchomvu, V., Owen-Smith, N., Hetem, R.S., Hutchinson, M.C., **Potter, A.B.**, et al. (2020). Quantifying water requirements of African ungulates through a combination of functional traits. *Ecological Monographs*, 90, e01404

Guyton, J.A., Pansu, J., Hutchinson, M.C., Kartzinel, T.R., **Potter, A.B.**, Coverdale, T.C., et al. (2020). Trophic rewilding revives biotic resistance to shrub invasion. *Nature Ecology & Evolution*, 4, 712–724.

Sinha, A., N. Devi, and **A. B. Potter**. 2020. Sighting of a Smooth Coated Otter *Lutrogale perspicillata* in Manas National Park, Assam, India. *IUCN Otter Specialist Group Bulletin*, 37, 136–139.

Branco, P.S., Merkle, J.A., Pringle, R.M., Pansu, J., **Potter, A.B.**, Reynolds, A., et al. (2019). Determinants of elephant foraging behavior in a coupled human-natural system: is brown the new green? *Journal of Animal Ecology*, 88, 780–792

Atkins, J.L., Long, R.A., Pansu, J., Daskin, J.H., **Potter, A.B.**, Stalmans, M.E., et al. (2019). Cascading impacts of large-carnivore extirpation in an African ecosystem. *Science*, 364, 173–177.

**Potter, A. B.**, and A. A. Dhondt. 2019. Behavioural observations on White-naped Tit *Machlolophus nuchalis* during its breeding season. *Indian Birds*, 14, 161–165.

Pansu, J., Guyton, J.A., **Potter, A.B.**, Atkins, J.L., Daskin, J.H., Wursten, B., et al. (2019). Trophic ecology of large herbivores in a reassembling African ecosystem. *Journal of Ecology*, 107, 1355–1376

Munjpara, S., **Potter, A.**, Solanki, P., and J. Tak. (2009) First record of Masked Booby *Sula dactylatra*

from Kachchh, India. *Indian Birds* 4: 112 (2008).

## SCIENCE COMMUNICATION

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Bhatt, Somnath. (2021) Grasslands and the Gut: Eating, Evolution and Ecology with Arjun Potter. *MOLD Magazine*: Gut Vision Series. Brooklyn, NY  
<https://thisismold.com/gut-vision/grasslands-and-the-gut>

## PROFESSIONAL PRESENTATIONS

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2022 Final Public Oral (defense)  
2021 Ecological Society of America (poster)  
2019-2020 Gorongosa Symposium (speaker)  
2019 Princeton Environmental Institute Discovery Day (poster)  
2019 Lab Tea Symposium (speaker)  
2019 4<sup>th</sup> Year Departmental Talk, (speaker)  
2017 2<sup>nd</sup> Year Departmental Talk (speaker)  
2015 Princeton, Penn, Columbia, and Rutgers EEB Symposium (speaker)  
2013 Fulbright Conference, SE Asia (speaker)

## TECHNICAL AND FIELD SKILLS

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Data collection: Field measurements of plant leaf and stem traits  
Field botany (particularly identification of Poaceae)  
Vegetation monitoring, camera trapping  
Diet analysis using DNA metabarcoding  
Biodiversity surveys

Software: R Statistical Software  
ArcGIS & QGIS  
LaTeX  
MARK (mark-recapture software)

Language: English (native)  
Indonesian (intermediate-advanced)  
Portuguese (intermediate)  
Latin, Spanish (proficient)  
Hindi, Gujarati (basic)

Other: Wilderness First Responder (certified Jan 2015)

## TEACHING AND MENTORING EXPERIENCE

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2021 **Teaching Assistant** *Princeton University* Princeton, NJ  
Global Health 351: Epidemiology

2015-16, 2020 **Teaching Assistant** *Princeton University* Princeton, NJ

## Ecology 321: Species interactions, Biodiversity, and Society

- 2016 – 2021    **Resident Graduate Student** *Rockefeller College, Princeton University* Princeton, NJ  
Served as a mentor for 19–55 advisees per year for five years in an undergraduate residential college. Responsibilities included weekly trivia night, study break events, the college leadership team, thesis bootcamps, and facilitating student wellbeing.
- 2016 – 2018    **Undergraduate internship supervisor** for the Princeton Environmental Institute  
Bozhidar Stankovikj (2018)  
Madeleine Dietrich (2018)  
Maria Stahl (2017)  
Alec Getraer (2016)  
Courtney Buoncore (2016)

## PROFESSIONAL SERVICE

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- 2018 – 2022    **Co-leader**, *Princeton Sunda Rainforest Project*, Princeton, NJ  
Helping lead a student-run club that partners with World Wildlife Fund-US to protect tiger habitat and indigenous livelihoods in Sumatra. Activities include science, filming, and fundraising.

## ADDITIONAL EXPERIENCE

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- 2014            **Consulting Ecologist**, *Rock Cobble Farm*, Kent, CT  
Developed and implemented strategies to improve 190 acres of pasture and hayfield and integrate biodiversity conservation with grass-fed cattle production.

## REFERENCES

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- Prof. Robert M. Pringle, Department of Ecology and Evolutionary Biology, Princeton University  
Prof. David S. Wilcove, Department of Ecology and Evolutionary Biology, Princeton University  
Prof. Stephen W. Pacala, Department of Ecology and Evolutionary Biology, Princeton University  
Prof. Corina E. Tarnita, Department of Ecology and Evolutionary Biology, Princeton University