

# JOEL O. ABRAHAM

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## EDUCATION

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### **PH.D. student, Princeton University, 2019-present**

Ecology & Evolutionary Biology  
(Advisor: Rob Pringle)

### **B.S., Yale University, 2014-2018**

*Magna cum laude*, double major in Ecology & Evolutionary Biology and Environmental Studies with distinction in both majors  
Certificate in Energy Studies  
Studied abroad on the SIT Australia: Rainforest, Reef, and Cultural Ecology Program  
Senior thesis: *Drought-response strategies of savanna herbivores*  
(Advisor: A. Carla Staver)

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## GRANTS AND FELLOWSHIPS

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- 2021 PIIRS Summer Research Funding, *Princeton University* (award: \$2,700)
  - 2021 First Year Graduate Student Summer Research SEED Money, *Princeton University* (award: \$2,500)
  - 2019 Graduate Research Fellowship, *National Science Foundation*
  - 2019 Centennial Fellowship, *Princeton University*
  - 2017 YIBS Matching Funds Grant, *Yale University*
  - 2017 Grace Hopper Mellon Senior Research Grant, *Yale University* (award: \$1,000)
  - 2017 Franke Fellowship in Science and the Humanities, *Yale University* (award: \$3,000)
  - 2017 Grace Hopper Richter Summer Fellowship, *Yale University* (award: \$1,000)
  - 2016 Thomas C. Barry Travel Fellowship, *Yale University* (award: \$5,900)
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## ACADEMIC HONORS AND AWARDS

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- 2019 Raymond B. Huey Award for Best Student Poster Presentation, *SICB*
  - 2018 Gaylord Donnelley Prize in Studies in the Environment, *Yale University*
  - 2018 Edgar J. Boell Prize for Excellence in Senior Research, *Yale University*
  - 2018 Cogswell Award for Service to Hopper College, *Yale University*
  - 2017 Phi Beta Kappa, *Yale University*
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## TEACHING EXPERIENCE

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- Spring 2021 **Guest Lecturer**, EEB 305 Plant Ecology, *Yale University*, Instructor: Carla Staver
- Spring 2020 **Assistant in Instruction**, EEB 351 Epidemiology: An Ecological and Evolutionary Perspective, *Princeton University*, Instructor: Jess Metcalf
- Fall 2019 **Assistant in Instruction and Guest Lecturer**, EEB 321 Ecology: Species Interactions, Biodiversity and Society, *Princeton University*, Instructor: Matthew Mumma

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## UNDERGRADUATE MENTORING

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- 2021-present **Olufemi Akinniyi**, EEB Scholar, *University of Lagos*
- 2021-present **Lizbeth Jardón**, EEB Mentee, *California State University*
- 2021-present **Felix Berrios-Ortega**, EEB Mentee, *University of Puerto Rico–Humacao*
- 2020-present **Zach Sachin**, HMEI intern, *Princeton University*
- 2019-present **Maria Stahl**, senior thesis student (thesis title: Pyric Herbivory in Gorongosa National Park: Understanding the Role of Fire in Shaping Herbivore Diversity in a Recovering Savanna Ecosystem), *Princeton University*
- 2020-2021 **Luca Kuziel**, senior thesis student (thesis title: Mind the [Phylogenetic] Gap: Exploring the routes through ungulate intestines of passenger and resident fungi), *Princeton University*
- 2019-2020 **Vienna Lunking**, senior thesis student (thesis title: A Changing Landscape of Fear within Gorongosa National Park: Differential Restfulness of Bushbuck [*Tragelaphus sylvaticus*] Before and After Carnivore Reintroduction), *Princeton University*
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## ACADEMIC SERVICE AND SYNERGISTIC ACTIVITIES

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- **Departmental services:** Grad student representative (2021-present); Social committee (2019-present), EEB Scholars participant (2020, 2021); EEB Mentor (2020, 2021)
  - **Manuscript reviewer:** *Ecology and Evolution*, *Journal of Ecology*, *PLoS One*, *Scientific Reports*
  - **Society member:** *American Society of Mammologists* (2019-present)
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## PEER-REVIEWED PUBLICATIONS

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- Palmer, M.S., Gaynor, K.M., Becker, J.A., **Abraham, J.O.**, Mumma, M.A., and Pringle, R.M. *In revision*. Spatiotemporal landscapes of fear: understanding dynamic risk. *Trends in Ecology and Evolution*.
- Abraham, J.O.**, Upham, N.S., Damian-Serrano, A., and Jesmer, B.R. *In revision*. Evolutionary causes and consequences of ungulate migration. *Nature Ecology and Evolution*.
- Abraham, J.O.**, Hempson, G.P., Faith, J.T., and Staver, A.C. (2021) Seasonal strategies differ between tropical and extratropical herbivores. *Journal of Animal Ecology*.
- Abraham, J.O.**, and Mumma, M.A. (2021). Elevated wildlife-vehicle collision rates during the COVID-19 pandemic. *Scientific Reports 11*, 20391.
- Staver, A.C., **Abraham, J.O.**, Hempson, G.P., Karp, A.T., and Faith, J.T. (2021). The past, present, and future of herbivore impacts on savanna vegetation. *Journal of Ecology*, 109(8), 2804-2822.
- Volenec, Z.M.\*, **Abraham, J.O.\***, Becker, A.D., and Dobson, A.P. (2021). Public parks and the pandemic: how park usage has been affected by COVID-19 policies. *PLoS ONE* 16(5): e0251799.
- Abraham, J.O.\***, Goldberg, E.R.\*, Botha, J., and Staver, A.C. (2021). Heterogeneity in African savanna elephant distributions and their impacts on trees in Kruger National Park, South Africa. *Ecology and Evolution*, 11: 5624-5634.
- Abraham, J.O.**, Hempson, G.P., and Staver, A.C. (2019). Drought-response strategies of savanna herbivores. *Ecology and Evolution*, 9: 7047-7056.

- Featured on the *Ecology and Evolution* blog: <https://ecologyandevolution.blog/2019/05/22/using-dung-to-figure-out-how-herbivores-respond-to-drought/>

- Named a top downloaded paper for 2018-2019 in *Ecology and Evolution*

**Abraham, J.O.** and Morgan, J.W. (2018). Effects of time-since-fire on the invertebrate communities of Kangaroo Grass *Themeda triandra*-dominated grasslands in Melbourne, Victoria. *The Victorian Naturalist*, 135(2): 36-46.

*\*co-first author*

## POSTER PRESENTATIONS AND CONFERENCE TALKS

**Abraham, J.** and Staver, A.C. (2019). Drought-Response Strategies of Savanna Herbivores. *Poster presented at: 2019 Annual Meeting of the Society for Integrative and Comparative Biology; 2019 Jan 3-7; Tampa, FL.*

- Winner of the Raymond B. Huey Award for Best Student Poster Presentation

**Abraham, J.** and Staver, A.C. (2018). Drought-Response Strategies of Savanna Herbivores. *Poster presented at: 103rd Annual Ecological Society of America Meeting; 2018 Aug 6-10; New Orleans, LA.*

**Abraham, J.** and Staver, A.C. (2018). Drought-Response Strategies of Savanna Herbivores. *Talk given at: Ecology & Evolution Senior Symposium; 2018 May 1; New Haven, CT.*

Finch, J., Thole, D., **Abraham, J.** (2016). City Living: The Potential of Urban Milkweed Ecotypes for Monarch Conservation. *Talk given at: Illinois State Academy of Science Annual Meeting; 2016 Apr 16; Edwardsville, IL.*

**Abraham, J.**, Finch, J., Thole, D. (2015). Surviving the city: the effects of urbanization on common milkweed. *Poster presented at: Yale Undergraduate Research Symposium; 2015 Sep 7; New Haven, CT.*

**Abraham, J.**, Finch, J., Thole, D. (2015). Surviving the city: the effects of urbanization on common milkweed. *Poster presented at: Chicago Botanic Gardens; 2015 Aug 14; Glencoe, IL.*

## RESEARCH EXPERIENCE

2018- 2019	Research Assistant, Edwards Lab, <i>Yale University, New Haven, CT</i>
Jun-Jul 2018	Postgraduate Associate, <i>Staver Global Biome Ecology Lab, Kruger National Park, South Africa</i>
2015-2018	Undergraduate Researcher, <i>Staver Global Biome Ecology Lab, Yale University, New Haven, CT</i>
Mar-May 2017	Associate Researcher, <i>Morgan Plant Ecology Lab, LaTrobe University, Melbourne, VIC</i>
May-Aug 2015	Plant Sciences Intern, <i>Chicago Botanic Gardens, Glencoe, IL</i>

## RELEVANT PROFESSIONAL EXPERIENCE

2015-2018	Lab Technician, DNA Analysis Facility on Science Hill, <i>Yale University, New Haven, CT</i>
2015-2016	Sterling Chemical Lab Safety Staff, <i>Yale University, New Haven, CT</i>