



## Tyler R. Kartzinel

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### EDUCATION

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- 2012 Ph.D. Odum School of Ecology, The University of Georgia  
Thesis: *The influence of landscape heterogeneity and species interactions on the distribution of an epiphytic orchid and its genetic variation.*
- 2007 B.A. Biology, Honors, *cum laude*, Rollins College
- 2007 B.A. Environmental Studies, Honors, *cum laude*, Rollins College

### PROFESSIONAL APPOINTMENTS

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- 2017- Assistant Professor, Ecology and Evolutionary Biology, Brown University
- 2017- Fellow, Institute at Brown for Environment and Society, Brown University
- 2015-2017 NatureNet Fellow, Princeton University & The Nature Conservancy
- 2013-2015 Postdoctoral Research Associate, Princeton University
- 2007-2012 Presidential Fellow, The University of Georgia

### DISCIPLINARY CONCENTRATIONS

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Conservation biology, ecology and evolutionary biology, molecular ecology, population genetics.

### REFEREED JOURNAL ARTICLES

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(KARTZINEL LAB POSTDOCS<sup>‡</sup>, GRAD STUDENTS<sup>†</sup>; \*INDICATES JOINT FIRST AUTHORSHIP.)

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1. **Kartzinel TR**, Hsing J, Musili PM, Brown BRP<sup>†</sup>, Pringle RM. 2019. Minor revisions. Covariation of diet and gut microbiome in African megafauna. *PNAS*.
2. Reese AT\*, **Kartzinel TR\***, Petrone BL, Turnbaugh PJ, Pringle RM, David LA. 2019. Using DNA metabarcoding to evaluate the plant component of human diets: a proof of concept. *mSystems* in press.
3. Pringle RM\*, **Kartzinel TR\***, Palmer TM, Thurman TJ, Fox-Dobbs K, Xu CC, Hutchinson MC, Coverdale TC, Daskin JH, Evangelista D, Gotanda K, Man in 't Veld N, Wegener H, Kolbe JJ, Schoener TW, Spiller DA, Losos JB, Barrett RDH. 2019. Predator-induced collapse of niche structure and coexistence on islands. *Nature* 570: 58-64.
  - Cover article.
  - *Nature News & Views* by Oswald Schmitz. "Predators affect competitors' coexistence through fear effects." *Nature* 570, 43-44 (2019).
  - Recommended on Faculty of 1000.
  - *Nature* Nature Video. "The lizards rewriting the rules of ecology."
  - Coverage in *PBS NOVA*, *AFP*, *PNAS* Journal Club, and other media.
4. Trapnell DW, Hamrick JL, Smallwood PA, **Kartzinel TR**, Ishibashi CD, Quigley CTC. 2019. Phylogeography of the Neotropical epiphytic orchid, *Brassavola nodosa*: evidence for a secondary contact zone in northwestern Costa Rica. *Heredity* DOI: 10.1038/s41437-019-0218-y.
5. Shefferson RP, Bunch W, Cowden CC, Lee Y-I, **Kartzinel TR**, Yukawa T, Downing J, Jiang H. 2019. Does evolutionary history determine specificity in broad ecological interactions? *Journal of Ecology* 107: 1582-1593.
  - Invited contribution to the special feature: *Macroevolution of biotic interactions in plants.*

6. Gill BA<sup>‡</sup>, Musili PM, Kurukura S, Hassan AA, Goheen JR, Kress WJ, Kuzmina M, Pringle RM, **Kartzinel TR**. 2019. Plant DNA barcode library and regional phylogeny for a semi-arid savanna in Kenya. *Molecular Ecology Resources* 19: 838-846.
  - Spotlighted as a recent, notable publication on the *Molecular Ecology* Blog.
7. Pansu J, Guyton JA, Potter A, Atkins J, Daskin J, Wursten B, **Kartzinel TR**, Pringle RM. 2019. Trophic ecology of large herbivores in a reassembling African ecosystem. *Journal of Ecology* 107: 1355-1376.
8. Deagle BE, Thomas AC, McInnes JC, Clarke LJ, Vesterinen EJ, Clare EL, **Kartzinel TR**, Eveson JP. 2019. Counting with DNA in metabarcoding studies: how should we convert sequence reads to dietary data? *Molecular Ecology* 28: 391-406. (2018 *BioRxiv* preprint DOI: 10.1101/303461.)
  - Invited contribution to the special feature: *Species interactions, ecological networks and community dynamics*.
  - Among the most downloaded papers in *Molecular Ecology* for 2018.
9. Reese AT, Pereira FC, Schintlmeister A, Berry D, Wagner M, Hale LP, Wu A, Jiang S, Durand HK, Zhou X, Premont R, Mae Diehl A, O'Connell TM, Alberts SC, **Kartzinel TR**, Pringle RM, Dunn RR, Wright JP, David LA. 2018. Microbial nitrogen limitation in the mammalian large intestine. *Nature Microbiology* 3: 1441-1450.
10. Goheen JR, Augustine DJ, Veblen KE, Kimuyu DM, Palmer TM, Porensky LM, Pringle RM, Ratnam J, Riginos C, Sankaran M, Ford AT, Hassan AA, Jakopak R, **Kartzinel TR**, Kurukura S, Louthan AM, Odadi WO, Otieno TO, Wambua AM, Young HS, Young TP. 2018. Conservation lessons from large-mammal manipulations in East African savannas: the KLEE, UHURU, and GLADE experiments. *Annals of the New York Academy of Sciences* 1429: 31-49.
  - Invited contribution to the special issue: *The year in ecology and conservation biology*.
11. Budischak SA, Hansen CB, Caudron Q, Garnier R, **Kartzinel TR**, Pelcer I, Cressler C, van Leeuwen A, Graham A. 2018. Feeding immunity: physiological and behavioral responses to infection and resource limitation. *Frontiers in Immunology* 8: 1914.
  - Invited contribution to the special feature: *Wild immunology—the answers are out there*.
12. Pellegrini AFA, Anderegg WRL, Paine CET, Hoffmann WA, **Kartzinel TR**, Rabin SS, Sheil D, Franco AC, Pacala SW. 2017. Convergence of bark investment according to fire and climate structures ecosystem vulnerability to future change. *Ecology Letters* 20: 307-317.
  - *Nature* Highlights, Princeton University homepage, coverage in *Boston Globe* and other media.
13. Coverdale TC, **Kartzinel TR**, Grabowski K, Shriver R, Hassan A, Goheen JR, Palmer TM, Pringle RM. 2016. Elephants in the understory: opposing direct and indirect effects of consumption and ecosystem engineering. *Ecology* 97: 3219-3230.
  - *Ecology* homepage feature.
14. **Kartzinel TR**, Campbell DA, Trapnell DW. 2016. Spatial patterns of haplotype variation in the epiphytic bromeliad *Catopsis nutans*. *Biotropica* 48: 206-217.
15. **Kartzinel TR**, Hamrick JL, Wang C, Bowsher AW, Quigley BGP. 2015. Heterogeneity of clonal patterns among patches of kudzu, *Pueraria montana* var. *lobata*, an invasive plant. *Annals of Botany* 116: 739-750.
16. **Kartzinel TR**, Chen PA, Coverdale TC, Erickson DL, Kress WJ, Kuzmina ML, Rubenstein DI, Wang W, Pringle RM. 2015. DNA metabarcoding illuminates dietary niche partitioning by African large herbivores. *Proceedings of the National Academy of Sciences, USA* 112: 8019-8024.
  - Cover article and photograph.
  - *PNAS* Commentary by Tilman & Borer. "African mammals, foodwebs, and coexistence." *PNAS* 112, 7890-7891 (2015).
  - *PNAS* "New and Newsworthy" feature; Recommended on Faculty of 1000.
  - Coverage in *New York Times*, *National Geographic*, NPR, and other media.

- The paper and supporting data are the basis of a [Howard Hughes Medical Institute BioInteractive Lab](#)—a tool for curricular enhancement of “textbook” high school biology.
17. **Kartzinel TR** and Pringle RM. 2015. Molecular detection of invertebrate prey in vertebrate diets: Trophic ecology of Caribbean island lizards. *Molecular Ecology Resources* 15: 903-914.
  18. **Kartzinel TR**, Goheen JR, Charles GK, DeFranco E, Maclean JE, Otieno T, Palmer TM, Pringle RM. 2014. Plant and small-mammal responses to large-herbivore exclusion in an African savanna: five years of the UHURU experiment. *Ecology* 95: 787-787.
    - Data paper published with *Ecological Archives* E085-064.
  19. **Kartzinel TR**, Shefferson RP, Trapnell DW. 2013. Relative importance of pollen and seed dispersal across a Neotropical mountain landscape for an epiphytic orchid. *Molecular Ecology* 22: 6048-6059.
  20. **Kartzinel TR**, Trapnell DW, Shefferson RP. 2013. Highly diverse and spatially heterogeneous mycorrhizal symbiosis in a rare epiphyte is unrelated to broad biogeographic or environmental features. *Molecular Ecology* 22: 5949-5961.
  21. **Kartzinel TR**, Trapnell DW, Shefferson RP. 2013. Critical importance of large native trees for conservation of a rare Neotropical epiphyte. *Journal of Ecology* 101: 1429-1438.
  22. Trapnell DW, Hamrick JL, Ishibashi CD, **Kartzinel TR**. 2013. Genetic inference of epiphytic orchid colonization; it may only take one. *Molecular Ecology* 22: 3680-3692.
  23. **Kartzinel TR**, Trapnell DW, Glenn TC. 2012. Microsatellite primers for the Neotropical epiphyte *Epidendrum firmum* (Orchidaceae). *American Journal of Botany* 99: e450-452.

## SELECTED ABSTRACTS

(FIRST- AND SENIOR-AUTHOR ONLY; KARTZINEL LAB POSTDOCS<sup>†</sup>, GRAD STUDENTS<sup>†</sup>)

1. Reed CG<sup>†</sup>, Goheen JR, Bianca BRP<sup>†</sup>, Pringle RM, Palmer TM, **Kartzinel TR**. 2019. Climate-mediated rewiring of small mammal trophic networks in response to defaunation on a Kenyan savanna. 99<sup>th</sup> Annual Meeting of the American Society of Mammalogists, Washington, DC, USA.
2. Bianca BRP<sup>†</sup>, Goheen JR, Malingati L, Palmer TM, **Kartzinel TR**. 2019. Evolutionary history predicts microbiome composition for orders, but not species, of co-occurring mammals. Evolution 2019, Providence, RI, USA (talk); Gordon Research Conference on Animal-Microbiome Symbioses 2019, West Dover, VT, USA (poster).
3. **Kartzinel TR**, Pringle RM, Goheen JR. 2017. Consequences of African large herbivore declines on food webs of small mammals. 102<sup>nd</sup> Annual Meeting of the Ecological Society of America, Portland, OR, USA (invited speaker, organized oral session on large-herbivore ecology).
4. **Kartzinel TR**. 2017. Wildlife diets and microbiota: climate and African megaherbivores shape ecological networks. 54<sup>th</sup> Annual Meeting of the Association for Tropical Biology and Conservation, Merida, Yucatan, Mexico (symposium invited speaker, biotic interactions in the Anthropocene).
5. **Kartzinel TR** and Pringle RM. 2016. DNA metabarcoding reveals fine-scale structure and change in large African herbivore food webs. 101<sup>st</sup> Annual Meeting of the Ecological Society of America, Fort Lauderdale, FL, USA.
6. **Kartzinel TR**. 2016. Predicting changes to the food webs of African large herbivores in the Anthropocene. 53<sup>rd</sup> Annual Meeting of the Association for Tropical Biology and Conservation, Montpellier, France (invited speaker, symposium on tropical plant-animal interactions in the Anthropocene).
7. **Kartzinel TR** and Pringle RM. 2015. DNA metabarcoding illuminates dietary niche partitioning by large herbivores in Africa. *Genome* 5: 236-236.
8. **Kartzinel TR**. 2015. DNA metabarcoding illuminates dietary niche partitioning by large herbivores in Africa. 6<sup>th</sup> International Barcode of Life Conference, University of Guelph, Canada.
9. **Kartzinel TR**, Shefferson RP, Trapnell DW. 2012. Phylogeographic structure of the Neotropical epiphytic orchid *Epidendrum firmum* corresponds to differences in symbiotic fungal communities. 97<sup>th</sup> Annual Meeting of the Ecological Society of America, Portland, OR, USA.

10. **Kartzinel TR**, Bunch WD, Cowden CC, Trapnell DW, Shefferson RP. 2011. Diverse suites of mycorrhizal fungi vary among populations of the rare Neotropical lady's slipper orchid, *Phragmipedium longifolium*. 96<sup>th</sup> Annual Meeting of the Ecological Society of America, Austin, TX, USA (poster).
11. **Kartzinel TR**, Bunch WD, Cowden CC, Trapnell DW, Shefferson RP. 2011. Diverse suites of mycorrhizal fungi vary among populations of the rare Neotropical lady's slipper orchid, *Phragmipedium longifolium*. Southeastern Ecology and Evolution Conference, Auburn, MS, USA.

## INVITED LECTURES

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- 2019 Max Planck–Yale Center for Biodiversity Movement and Global Change, New Haven, CT, USA (public symposium speaker).
- 2019 Providence College, Providence, RI, USA (departmental seminar).
- 2018 University of Idaho, Moscow, ID, USA (student-invited speaker, Institute for Bioinformatics & Evolutionary Studies and Bioinformatics & Computational Biology).
- 2018 University of Connecticut, Storrs, CT, USA (departmental seminar).
- 2018 Rhode Island College, Providence, RI, USA (departmental seminar).
- 2018 Iowa State University, Ames, IA, USA (departmental seminar).
- 2018 Mpala Research Centre, Laikipia, Kenya (“Science Friday” seminar).
- 2018 Syracuse University, Syracuse, NY, USA (departmental seminar).
- 2018 National Museums of Kenya, Nairobi, Kenya (departmental seminar).
- 2017 University of Wyoming, Laramie, WY, USA (departmental seminar).
- 2017 Brown University, Providence, RI, USA (departmental seminar).
- 2015 Brown University, Providence, RI, USA (departmental seminar).
- 2012 University of Georgia, Athens, GA, USA (Presidential Fellows Lecture Series).
- 2011 The Explorers Club, Columbia, SC, USA (guest speaker).
- 2011 Symbiofest, Athens, GA, USA (guest speaker).

## WORKS IN PROGRESS

(KARTZINEL LAB POSTDOCS<sup>‡</sup>, GRAD STUDENTS<sup>†</sup>; \*INDICATES JOINT FIRST AUTHORSHIP.)

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1. Guyton JA, Pansu J, **Kartzinel TR**, Coverdale TC, Potter AB, Daskin JH, Hutchinson MC, Gledis da Conceição Miranda A, Stalmans M, Pringle RM. Restoration of native African megafauna revives biotic resistance to plant invasion. 2<sup>nd</sup> Review at *Nature Ecology and Evolution*.
2. **Kartzinel TR** and Pringle RM. Multiple dimensions of dietary diversity in African large herbivores. 1<sup>st</sup> Revision for *Journal of Animal Ecology*.

## RESEARCH GRANTS

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### a. Current Grants:

- 2020-2021 NSF DEB-1930820. Integrating the core-satellite and resource-breadth hypotheses in small mammal communities: field tests of a macroecological pattern. Role: co-PI with J.R. Goheen. Amount: \$300,000 (\$150,000 to Brown).
- 2019-2020 Seed Funding, Institute at Brown for Environment and Society. Developing novel molecular tools to reconstruct Arctic sea ice extent. Role: co-PI with Y. Huang and T. Herbert. Amount: \$30,000.
- 2019-2020 HHMI-Sheridan Course-based Undergraduate Research Experiences: Conservation in the Genomics Age. Role: PI. Amount: \$24,200.
- 2018-2020 Seed Funding, Institute at Brown for Environment and Society. Connecting earth observation and ecological networks. Role: PI with J.R. Kellner. Amount: \$80,000.

**b. Completed Grants:**

- 2017 Emerging Frontiers in Tropical Sciences Working Group, Organization for Tropical Studies. Predicting extinction of tropical species under climate change: combining precise data, robust models, and new perspectives. Role: co-PI with W.J. Kress and C. Garcia-Robledo. Amount: undisclosed.
- 2013-2015 Development Grand Challenges Program, Princeton Environmental Institute. Ecosystem spatial pattern and development opportunities in African rangelands. Role: co-PI with R.M. Pringle, R.A. Long, and C.E. Tarnita. Amount: \$200,000.
- 2011-2012 NSF DEB-1110307. The influence of landscape heterogeneity and mycorrhizal fungi on the distribution of an epiphytic orchid and its genetic variation. Role: co-PI, Doctoral Dissertation Improvement Grant to T.R. Kartzinel. Amount: \$14,986.

**c. Proposals Submitted (in review):**

- Pending Beckman Young Investigators Award. Arnold and Mabel Beckman Foundation. Institutional endorsement from Brown University. Submitted: August 2019. Role: PI.
- Pending Sloan Research Fellowships in Molecular Biology. Sloan Foundation. Departmental Nominee. Selected: July 2019. Role: PI.
- Pending Pew Scholar Program in Biomedical Sciences. Pew Charitable Trusts. Sole nominee from Brown University. Selected: June 2019. Role: PI.
- Pending Packard Foundation Early Career Fellowship. One of two nominees from Brown University. Selected: March 2019. Role: PI.

**SERVICE**

**To the University:**

- 2019-present Committee member, Diversity and Inclusion Action Plan, Department of Ecology and Evolutionary Biology, Brown University.
- 2019 Cohost of EEB-oSTEM seminars that highlight diverse research identities in biology.
- 2019 Concentration advising, Environmental Studies, IBES, Brown University (2 advisees).
- 2018 Biodiversity subject-matter expert, Sustainability Planning Committee, Brown University.
- 2018 Concentration advising, Environmental Studies, IBES, Brown University (2 advisees).
- 2018 Faculty search committee, Professor of Climate and Health, Department of Epidemiology & IBES, Brown University.
- 2018 Environmental studies honors thesis selection committee, IBES, Brown University.
- 2011 Faculty search committee. Odum School of Ecology, University of Georgia.
- 2010-2011 Executive committee, Office of the Dean of Ecology, University of Georgia.
- 2010-2011 Graduate student representative, Ecology, University of Georgia.
- 2009-2011 Program committee (chair), Graduate symposium, Ecology, University of Georgia.
- 2008-2010 Undergraduate symposium convener and judge, Center for Undergraduate Research Opportunities, University of Georgia.

**To the Profession:**

Workshops, Working Groups, & Symposia Organized

- 2018 "DNA barcoding: ecology and systematics in East African ecosystems." Training and development workshop, National Museums of Kenya, Nairobi, Kenya (co-organizer).
- 2017 "Tropical biotic interactions in the Anthropocene." Symposium at the 54<sup>th</sup> annual meeting of the Association for Tropical Biology and Conservation, Merida, Mexico (co-organizer).
- 2017 "Predicting extinction of tropical species under climate change: combining precise data, robust models, and new perspectives." Emerging Frontiers in Tropical Science Working Group, Organization for Tropical Studies, La Selva Biological Station, Costa Rica (co-organizer).

Workshops, Working Groups, & Symposia Participant

- 2019 “Symposium: Linking individual behavior to community responses in changing landscapes.” Max Planck – Yale Center for Biodiversity Movement and Global Change, New Haven, CT, USA (invited).
- 2019 “State of the Field 2019: The Ancient DNA Revolution in Archaeology.” Panel on alternative sources of ancient DNA. Joukowsky Institute for Archaeology and the Ancient World, Brown University, Providence, RI, USA (invited panel moderator).
- 2019 “CURE Faculty Institute.” HHMI-Sheridan Center workshop to develop and enhance course-based undergraduate research at Brown University, Providence, RI, USA (funded participant).
- 2018 “Giraffe Conservation Science Symposium.” To produce a 2030 conservation framework for giraffe. Smithsonian Conservation Biology Institute, Front Royal, VA, USA (invited).
- 2016 “Enhancing capacity for wildlife conservation in Equatorial Guinea.” Stakeholder meeting, Biodiversity Initiative, Bata, Equatorial Guinea (invited).
- 2016 “Leveraging Prairie Reserves for Conservation Under Climate Change.” Science Solution Space, The Nature Conservancy, Ordway Prairie, South Dakota, USA (invited).
- 2013 “Gorongosa National Park Science-Media Workshop.” Gorongosa Restoration Project, Gregory C. Carr Foundation, Sun Valley, ID, USA (invited).

Ad hoc Reviewing

- Manuscript reviews ( $n = 54$ ): *Acta Oecologica*, *American Journal of Botany*, *Biological Conservation* (“Outstanding Reviewer”), *Biological Journal of the Linnean Society*, *Biotropica*, *Conservation Genetics*, *Diversity and Distributions*, *Heredity*, *Journal of Applied Ecology*, *Journal of Applied Entomology*, *Journal of Ecology*, *Journal of Heredity*, *Marine Ecology Progress Series*, *Methods in Ecology and Evolution*, *Molecular Ecology*, *Molecular Ecology Resources*, *Nature Communications*, *Oikos*, *Plant Molecular Biology Reporter*, *PLoS ONE*, *Proceedings of the Royal Society B*, *Science Advances*, *Scientific Reports*.
- Grants: National Geographic Society.
- Curriculum: Howard Hughes Medical Institute (HHMI) BioInteractive.

Advisory Positions

- 2018- Senior Advisor, New Research Technologies, a laboratory for DNA and stable isotopes analysis at Mpala Research Centre, Kenya (NSF Award #1821088).
- 2013- Department of Scientific Services, Gorongosa Restoration Project, Mozambique.

Elected Positions

- 2007-2009 Society for Conservation Biology, Founding member of the State of Georgia & University of Georgia chapters. Vice President & Program Development Chair (2008-2009).

Selected Media

- 2018 WPRO Providence. Live radio interview about the “2018 Living Planet Report” by the World Wildlife Fund.
- 2013 EO Wilson Biodiversity Foundation Film Production. “Gorongosa Field Notes: Going Back in Time Four Decades” Available: <https://vimeo.com/114287571>.

Professional Memberships & Affiliations

Association for Tropical Biology and Conservation, Ecological Society of America, Kenya Wildlife Services, Mpala Research Centre, National Museums of Kenya, Sigma Xi (Associate Member), Society for the Study of Evolution.

## HONORS & AWARDS

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2018-2022	Early Career Fellow, Ecological Society of America
2015-2017	NatureNet Science Fellowship, The Nature Conservancy
2015	International Barcode of Life Conference Travel Award
2007-2012	Presidential Fellowship, The University of Georgia
2012	Smithsonian Tropical Research Institute Fellowship (declined to pursue a postdoc)
2012	University of Georgia Graduate School Travel Award
2011	University of Georgia Graduate School Travel Award
2011	IDEA WILD
2010	The Explorers Club Exploration Fund
2009	Lewis and Clark Fund for Exploration and Field Research
2009	Eugene P. Odum Small Grant
2009	Sigma Xi Grant in Aid of Research
2009	Tinker Foundation Field Research Award
2009	National Science Foundation Graduate Research Fellowship, honorable mention
2009	University of Georgia Costa Rica Ecology Program
2009	Bosque de Paz Biological Reserve, Costa Rica
2008	University of Georgia Graduate School Travel Award
2006	Morris K. Udall Scholarship
2006	Honors thesis award, Rollins College
2006	Sustainable Development International Scholar, Singapore & Vietnam
2005	Sustainable Development International Scholar, Costa Rica
2004	Archer D. Midland Scholarship, Galápagos National Park, Ecuador
2004	Service Learning Scholarship, Dominican Republic
2004	National Society of Collegiate Scholars

## TEACHING

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### Courses:

#### *AY 2019-2020*

- 2020 Environmental Studies 0490 (planned for spring): Environmental Science in a Changing World (sole instructor).
- 2019 Biology 2430 (fall): Graduate Seminar in Species Interactions (sole instructor; 10 enrolled, 1 auditing).
- 2019 Biology 1950 (fall): Independent Study (supervising Amanda Lyons, class of '20; Violet Sackett, class of '20; Camille Tulloss, class of '21).
- 2019 Environmental Studies 1970 (fall): Independent Study (supervising Catherine Porder, class of '20).

#### *AY 2018-2019*

- 2019 Biology 2440 (spring): Topics in Ecology and Evolutionary Biology (multiple instructors, 8 enrolled).
- 2019 Biology 1960 (spring): Independent Study (supervising Molly Magid, class of '19).
- 2018 Biology 1515/2015 (fall): Conservation in the Genomics Age (sole instructor of course with inquiry-based & engaged-learning lab; 14 enrolled, 1 auditing).
- 2018 Biology 1950 (fall): Independent Study (supervising Molly Magid, class of '19; Ashley Bang, class of '19).

#### *AY 2017-2018*

- 2018 Biology 1950 (spring): Independent Study (supervising Molly Magid, class of '19).

*AY 2016-2017*

2017 Field Ecology: Skills for Science and Beyond, Organization for Tropical Studies Graduate Program, Costa Rica (resource faculty member).

**Guest Lectures:**

- 2019 Conservation Biology (BIOL1470, Brown University).
- 2018 Living Biology at Brown and Beyond (BIOL0100, Brown University).
- 2016 Savanna Ecology (Makerere University, Uganda; Presented at Mpala Research Centre, Kenya).
- 2015 Ecology: Species interactions, biodiversity, and society (EEB321, Princeton University).
- 2012 Evolutionary Ecology (ECOL4500/6500, University of Georgia).
- 2011 Evolutionary Ecology (ECOL4500/6500, University of Georgia).
- 2011 Universidad Técnica Nacional, San Luis, Costa Rica (given in English and Spanish).

**Postdoctoral Supervision:**

- Brian Gill (Brown IBES, 2017 – present).

**Graduate Student Supervision:**

- Courtney Reed (Brown EEB PhD, 2018 – present).
- Robert Ang'ila (Karatina Enviro. Studies MSc, 2018 – present, co-advised by Dr. Duncan Kimuyu).
- Patrick Freeman (Brown EEB PhD, 2017 – present).
- Bianca Brown (Brown EEB PhD, 2017 – present, NSF Graduate Research Fellow, advanced to candidacy in 2018).

**Graduate Student Committee Membership:**

- Karen Wang (Brown DEEPS, 2018 – present).
- Sian Liao (Brown Chemistry, 2018 – present).
- Lindsay McCulloch (Brown EEB, 2018 – present).

**Undergraduate Research Supervision:**

- Camille Tulloss '21 (Brown EEB, 2019 – present).
- Catherine Porder '20 (Brown IBES, 2019 – present).
- Violet Sackett '20 (Brown EEB, 2019 – present).
- Amanda Lyons '20 (Brown EEB, 2018 – present; 2019 Voss Environmental Fellow).
- Ashley Bang '19 (Brown DEEPS, 2018 – 2019; 2018 Hollings Scholar, 2019 Fulbright Scholar).
- Molly Magid '19 (Brown EEB, 2017 – 2019; 2018 Voss Environmental Fellow, 2019 Fulbright Scholar).

**Undergraduate Honors Thesis Second Reader:**

- Fiona Beltram '18 (Brown EEB, 2017 – 2018).

**Research Assistants:**

- Peter Lokeny (Mpala Research Centre, 2017 – present).

**Visiting Student Collaborators:**

- Edmund Basham (PhD student, University of Florida, 2018).

**Mentorship & Supervision as a Postdoctoral Fellow (Princeton University):**

Ph.D. students (3), undergraduate thesis students and interns (4), laboratory managers (3).

- Mentee accomplishments include coauthoring publications, winning scholarships of \$1000-\$7390, and presenting research talks and theses.



**Mentorship & Supervision as a Graduate Student (University of Georgia):**

Ph.D. students (3), M.S. students (1), undergraduate students (5), research technicians (1), and undergraduate research assistants (10).

- Mentee accomplishments include coauthoring publications, giving talks at international meetings, and winning symposia research awards.