

# Arielle S. Fogel

Cornell University  
227 Biotechnology Building  
Ithaca, NY 14853

Email: [asf224@cornell.edu](mailto:asf224@cornell.edu)  
Website: [afogel.weebly.com](http://afogel.weebly.com)  
Twitter: [@afogel29](https://twitter.com/afogel29)

## EDUCATION and TRAINING

---

- 2023-present *Cornell University*, Ithaca, NY  
Postdoctoral  
Department of Molecular Biology and Genetics (advisor: Andrew Clark)
- 2022 *Duke University*, Durham, NC  
Ph.D. University Program in Genetics and Genomics  
Department of Evolutionary Anthropology (advisor: Jenny Tung)  
Dissertation title: “Genomic and Phenotypic Consequences of Hybridization in Wild Baboons”
- 2014 *University of Pennsylvania*, Philadelphia, PA  
B.A. with Distinction in Biology, *Phi Beta Kappa*, *Summa Cum Laude*  
Concentration: Ecology and Evolutionary Biology

## AWARDS and FELLOWSHIPS (since 2011)

---

- 2024 *Center for Vertebrate Genomics (CVG) Distinguished Scholar*, Cornell University.
- 2023 *W.D. Hamilton Award for Outstanding Graduate Student Presentation*, Society for the Study of Evolution.
- 2022-2023 *Jo Rae Wright Fellowship for Outstanding Women in Science*, Duke University.
- 2022-2023 *Katherine Goodman Stern Fellowship*, Duke University.
- 2018-2022 *Graduate Research Fellowship*, National Science Foundation.
- 2021-2022 *Preparing Future Faculty Fellowship*, Duke University.
- 2022 *Marcy Speer Scientific Paper Award (Best Paper)*, University Program in Genetics and Genomics, Duke University.
- 2022 *Warder Clyde Allee Session for Best Student Paper Competition* Finalist, Animal Behavior Society.
- 2022 *Associate Member*, Sigma Xi.
- 2021 *Patricia Whitten Prize* for outstanding oral presentation in primatology, American Association of Physical Anthropologists Annual Meeting.
- 2016-2020 *James B. Duke Fellowship*, Duke University.
- 2018 *Best Talk*, University Program in Genetics and Genomics Retreat, Duke University.
- 2016 *James Mills Peirce Fellowship*, Harvard University (*awarded but declined*).
- 2016 *Theodore H. Ashford Graduate Fellowship in the Sciences*, Harvard University (*awarded but declined*).
- 2014 *Phi Beta Kappa*, University of Pennsylvania.
- 2014 *Summa Cum Laude*, University of Pennsylvania.

- 2014 *Distinction in Biology*, University of Pennsylvania.  
 2014 *Chair's Award for Excellence in Biology*, University of Pennsylvania.  
 2011-2014 *Dean's List*, University of Pennsylvania.

## GRANTS

---

- 2024 *Center for Vertebrate Genomics (CVG) Distinguished Scholar funds*, Cornell University (\$17,500).  
 2023-2025 *New Frontiers Grant*, Cornell University (\$199,821; submitted through PI Clark).  
 2020-2023 *Biological Anthropology Doctoral Dissertation Research Improvement Grant*, National Science Foundation (Award #2018897, direct costs: \$19,984).  
 2021 *Data Expeditions Grant from the Information Initiative*, Duke University (\$2,500).  
 2018 *Data Expeditions Grant from the Information Initiative*, Duke University (\$1,500).  
 2018 *Sigma Xi Grant-in-Aid of Research*, Sigma Xi (\$1,000).  
 2018 *Center for International & Global Studies Graduate Award for Research and Training*, Duke University (\$1,500).  
 2018 *International Dissertation Research Travel Award*, Duke University (\$3,000).  
 2013 *Pincus-Magaziner Undergraduate Research Grant Award from the College Alumni Society*, University of Pennsylvania (\$700).

## PUBLICATIONS (in reverse chronological order)

---

\*, ^ indicates equal contribution

Lange E.C., Griffin M., **Fogel A.S.**, Archie E.A., Tung J., Alberts S.C. 2023. Heritable and sex-specific variation in the development of social behavior in a wild primate. *Proceedings of the Royal Society B: Biological Sciences*, 290: 20231597. [doi.org/10.1098/rspb.2023.1597](https://doi.org/10.1098/rspb.2023.1597). [data](#)

**Fogel A.S.\***, Oduor P.O.\*, Nyongesa A.W., Kimwele C.N., Alberts S.C., Archie E.A., Tung J. 2023. Ecology and age, but not genetic ancestry, predict fetal loss in a wild baboon hybrid zone. *American Journal of Biological Anthropology* 180: 618-632. [doi.org/10.1002/ajpa.24686](https://doi.org/10.1002/ajpa.24686), [code](#), [data](#)

- Selected as “Editor’s Choice Article”

Vilgalys T.P.\*, **Fogel A.S.\***, Anderson J.A., Mututua R.S., Warutere J.K., Siodi L., Kim S.Y., Voyles T.N., Robinson J.A., Wall J.D., Archie E.A., Alberts S.C., Tung J. 2022. Selection against admixture and gene regulatory divergence in a long-term primate field study. *Science* 377: 635-641. [doi.org/10.1126/science.abm4917](https://doi.org/10.1126/science.abm4917). [code and data](#)

Galezo A.A., Nolas M., **Fogel A.S.**, Mututua R.S., Warutere J.K., Siodi I.L., Altmann J., Tung J., Archie E.A., Alberts S.C. 2022. Mechanisms of inbreeding avoidance in a wild primate. *Current Biology* 32: 1607-1615. [doi.org/10.1016/j.cub.2022.01.082](https://doi.org/10.1016/j.cub.2022.01.082). [code](#), [data](#)

**Fogel A.S.**, McLean E.M., Gordon J.B., Archie E.A., Tung J.\*, Alberts S.C.\* 2021. Genetic ancestry predicts male-female affiliation in a natural baboon hybrid zone. *Animal Behaviour*, 180: 249-268. [doi.org/10.1016/j.anbehav.2021.07.009](https://doi.org/10.1016/j.anbehav.2021.07.009). [code](#), [data](#)

Levy E.J.\*, Zipple M.N.\*, McLean E., Campos F.A., Dasari M., **Fogel A.S.**, Franz M., Gesquiere L.R., Gordon J.B., Grieneisen L., Habig B., Jansen D.J., Learn N.H., Weibel C.J., Altmann J.,

Alberts S.C.<sup>^</sup>, Archie E.A.<sup>^</sup> 2020. A comparison of dominance rank metrics reveals multiple competitive landscapes in an animal society. *Proceedings of the Royal Society B: Biological Sciences*, 287: 20201013. [doi.org/10.1098/rspb.2020.1013](https://doi.org/10.1098/rspb.2020.1013)

## CONFERENCE PRESENTATIONS (first-authored only)

---

### Oral Presentations

- 2023 **Fogel A.S.**, Vilgalys T.P., He S., Archie E.A., Alberts S.C., Tung J. Assortative mating and offspring viability shape introgression along baboon hybrid genomes. Society for Molecular Biology and Evolution (SMBE) Conference 2023, Ferrara, Italy.
- 2023 **Fogel A.S.**, Vilgalys T.P., He S., Archie E.A., Alberts S.C., Tung J. Mating-related barriers to gene flow shape ancestry patterns along hybrid baboon genomes. Society for the Study of Evolution, virtual.
- Winner of the W.D. Hamilton Award for Outstanding Graduate Student Presentation
- 2023 **Fogel A.S.**, Vilgalys T.P., Archie E.A., Alberts S.C., Tung J. Mating-related barriers to admixture shape ancestry patterns across the baboon genome. Speciation Gordon Research Seminar and Conference, Barga, Italy.
- Voted one of the top 4 presentations by Gordon Research Seminar participants; selected for oral presentation at the Gordon Research Conference
- 2022 **Fogel A.S.**, Vilgalys T.P., He S., Archie E.A., Alberts S.C., Tung J. Mating-related barriers to gene flow shape ancestry patterns along hybrid baboon genomes. Animal Behavior Society Annual Conference, San Jose, Costa Rica.
- Finalist for the Warder Clyde Allee Session for Best Student Paper Competition
- 2022 **Fogel A.S.**, Vilgalys T.P., Archie E.A., Alberts S.C., Tung J. Mating-related barriers to admixture shape ancestry patterns across the baboon genome. Genetics Society of America's Population, Evolutionary, and Quantitative Genetics (PEQG) Conference, Pacific Grove, CA, USA.
- 2020 **Fogel A.S.**, Vilgalys T.P., Kim S.Y., Altmann J., Alberts S.C., Tung J. Mapping putative genetic barriers to gene flow in hybrid baboons. American Association of Physical Anthropologists Annual Meeting, Los Angeles, CA, USA (rescheduled to 2021 due to Covid-19).
- Winner of Patricia Whitten Prize
  - Published: *American Journal of Physical Anthropology* 171:88

### Posters

- 2021 **Fogel A.S.**, Vilgalys T.P., Archie E.A., Alberts S.C., Tung J. Behavioral barriers to gene flow shape the admixture landscape of the baboon genome. Biology of Genomes, Cold Spring Harbor, NY, USA (virtual).
- 2014 **Fogel A.S.**, Spence-Aizenberg A., Williams L., Valeggia C.R., Fernandez-Duque E. Social environment and cortisol levels in captive owl monkeys (*Aotus nancymaae*). Animal Behavior Society Annual Conference, Princeton, NJ, USA.

## OTHER PRESENTATIONS (oral presentations unless otherwise noted)

---

- 2024 Department of Biological Sciences, SUNY Oswego (*upcoming October 25*)
- 2023 April Wei Lab Meeting, Cornell University
- 2023 Great Lakes Annual Meeting of Evolutionary Genomics (GLAM-Evogen), Cornell University
- 2022 Department of Archaeogenetics Seminar, The Max Planck Institute for Evolutionary Anthropology
- 2022 Jonathan Pritchard Lab Meeting, Stanford University (joint with T. Vilgalys; virtual)
- 2022 Molly Schumer Lab Meeting, Stanford University (virtual)
- 2022 The University Program in Genetics and Genomics Recruitment, Duke University (virtual)
- 2021 Andrew Clark Lab Meeting, Cornell University
- 2021 Speciation & Introgression Discussion Group, UC-Berkeley (joint with J. Tung; virtual)
- 2021 Society of Duke Fellows Research Talks, Duke University (virtual)
- 2021 Evolutionary Anthropology Talk Series (EATS), Duke University (virtual)
- 2021 The University Program in Genetics and Genomics Recruitment, Duke University (virtual)
- 2020 The University Program in Genetics and Genomics Student Seminar, Duke University (virtual)
- 2020 PopBio Seminar Series, Duke University (virtual)
- 2020 The University Program in Genetics and Genomics Recruitment, Duke University
- 2019 The University Program in Genetics and Genomics Retreat, Duke University
- 2019 The University Program in Genetics and Genomics Recruitment, Duke University
- 2018 The University Program in Genetics and Genomics Retreat, Duke University
- 2017 The University Program in Genetics and Genomics Student Seminar, Duke University
- 2017 Evolutionary Anthropology Talk Series (EATS) Lab Showcase, Duke University
- 2014 Symposium on Undergraduate Research in Biology, University of Pennsylvania (honors thesis poster)
- 2014 Undergraduate Research Symposium, University of Pennsylvania (poster)
- 2014 Arts, Research and Culture House Grand Opening, University of Pennsylvania (panelist)
- 2013 Penn Family Weekend Research Fair, University of Pennsylvania (poster)
- 2013 Center for Undergraduate Research and Fellowships' Research Exposition, University of Pennsylvania (poster)

## **SERVICE**

---

### **Cornell University**

- 2023-present *DEI in Molecular Biology and Genetics Committee (DMC) Working Group on Trainee Mentoring and Retention*  
2023-2024 *EvoDay 2024: Admixture, Co-Organizer*

### **Duke University**

- 2016-2021 *The University Program in Genetics and Genomics (UPGG) Distinguished Lecture Series Committee, Co-Chair (2017-2021)*  
2016-2020 *Duke Outreach in Genetics and Genomics (DOinGG)*  
2017-2020 *Evolutionary Genetics Journal Club, Co-Organizer*  
2016-2018 *UPGG Curriculum Committee*  
2016-2018 *UPGG Recruitment Committee*  
2016-2017 *WiSE (Women in Science and Engineering) Planning Committee*

### **University of Pennsylvania**

- 2013-2014 *Biology Student Advisory Board*

### **External**

- 2024-2026 *Genetic Society of America's Journals Peer Review Training Program*

Reviewer for *American Journal of Primatology*, *Royal Society Open Science*, *The Animal Behavior Society* (grants)

## **TEACHING**

---

### **External**

- 2023 *Guest lecturer, Core Graduate Seminar in Biological Anthropology, University of Texas-Austin (virtual)*  
2022 *Guest lecturer, Speciation course, North Carolina State University*

### **Duke University**

- 2022 *Guest lecturer, "Genetics of social behavior" for Osher Lifelong Learning Institute (OLLI) at Duke course, "Why be social? The science of animal social behavior"*  
2021 *Co-creator and co-instructor, Duke Data Expeditions four-week lesson, "Exploring the ecology of the world's primates," for EVANTH 101 (Introduction to Evolutionary Anthropology) to introduce undergraduates to computational analysis in R*  
2021 *TA, Primate Field Biology*  
2020 *TA, Introduction to Evolutionary Anthropology*  
2018 *Co-creator and co-instructor, Duke Data Expeditions lesson, "A shallow dive into deep sea data," for BIOLOGY 190 (Life in the Deep Sea) to introduce undergraduates to computational analysis in R*

## **MENTORSHIP**

---

### **External**

- 2023 *Society for Molecular Biology and Evolution Conference, mentor to undergraduate Christina Pleschka*

### **Cornell University**

- 2024-present *Mentored Cornell undergraduate, Pilar Seielstad (independent study)*

2023-2024 *Center for Vertebrate Genomics Mentoring Program*, mentor to PhD students Annie Gardella and Chase Holdener

**Duke University**

2021-2022 *Office of Biomedical Graduate Education Graduate Student Peer Mentoring Network*, peer mentor to 8 first-year PhD students and discussion leader for BIOTRAIN 701 (Foundations in Professionalism)

2021 *Mentored Duke undergraduate*, Rishi Dasgupta (independent study spring semester)

2016-2017 *WiSE (Women in Science and Engineering) Graduate/Undergraduate Mentoring Program*, Graduate Mentor

**University of Pennsylvania**

2010-2014 *PennQuest*, Program Coordinator (2013-2014), Leader (2011-2014). Directed outdoor orientation program for ~140 freshmen where students backpacked on the Appalachian trail for four days and are advised throughout their freshman year.

2010-2014 *The Kelly Writers House's Write On! Program*, Coordinator (2013-2014), Coach (2010-2012). Directed weekly creative writing tutoring and mentoring program of ~30 undergraduate coaches and ~30 West Philadelphia middle school students.

2013-2014 *Major Advising Program*, Major Advisor

2013-2014 *Center for Undergraduate Research and Fellowships*, Research Peer Advisor

**DIVERSITY, INCLUSION, and MENTORSHIP TRAINING**

---

2024 The Inclusive Teaching Institute for Graduate Students & Postdocs Workshop (full day workshop), Cornell University.

2024 Introduction to Inclusive & Equity-Minded Mentoring and the FAIM Resource Center, Department of Ecology and Evolutionary Biology, Cornell University.

2023 Building Mentorship Skills for Academic Careers certificate program (semester long course), Cornell University.

2021 Classroom Facilitation: Learning while incorporating a DEI lens and content (Diversity, Equity, and Inclusion workshop), Department of Evolutionary Anthropology, Duke University.

2021 The Leadership and Management in Action Program (L-MAP) workshops (i) "Professionalism and Professional Identity", (ii) "Leading Without Authority", Graduate Student Peer Mentoring Network training, Office of Biomedical Graduate Education, Duke University School of Medicine.

2020 Bystander Intervention: Addressing Harassment & Bias at Work (Diversity, Equity, and Inclusion Mini-Series), Department of Biology, Duke University.

**SELECTED OUTREACH** (since 2017)

---

2024-present [March Mammal Madness](#), Genetics Team Member

2024 South Meck High School (North Carolina), Animal Behavior Class (three classes; via zoom)

- 2023 The Animal Behavior Podcast two-minute takeaway segment ([season 3, episode 5](#); starts at 33:56)
- 2022 Co-organized fundraiser for purchasing food for the local Maasai community surrounding Amboseli National Park, Kenya which was confronted with extreme food shortages and economic challenges as a result of severe and persistent drought (\$7,560 total funds raised; distributed food supplies to >1,400 households over the course of two food distribution events)
- 2021 Selected scientist for “The Art of A Scientist” exhibit, an effort that fosters collaboration between artists and scientists to make scientific findings more accessible to the public (available online zine: [https://issuu.com/powerplantgallery/docs/aos\\_final](https://issuu.com/powerplantgallery/docs/aos_final))
- 2020 VASE: Virtual Active Science Engagement, a mentoring and peer-networking program for high school and undergraduate students interested in scientific careers, presenter (virtual)
- 2018 Duke University Summer Classes, Preparing for College Panel
- 2018 Nasher Museum of Art, Family Day, The Art of Science
- 2018 Scotts Ridge Elementary School (North Carolina), STEAM Night
- 2017 Duke University, Science Under the Stars
- 2017 E.K. Powe Elementary School (North Carolina), Science Night
- 2017 Carolina Friends School (North Carolina), Science Day
- 2017 North Carolina Museum of Natural Sciences, Darwin Day

**PROFESSIONAL AFFILIATIONS** (past and present, listed alphabetically)

---

American Association of Anthropological Genetics  
American Association of Physical Anthropology  
Animal Behavior Society  
Genetics Society of America  
National Center for Science Education  
Society for Molecular Biology and Evolution  
Society for the Study of Evolution