

CURRENT POSITION

2022-present Assistant Professor in Global Health, School of Human Evolution and Social Change, Center for Evolution and Medicine, Arizona State University

2023-present Senior Global Futures Scientist, Jo Ann Wrigley Global Futures Laboratory, Arizona State University

PREVIOUS POSITIONS

2020-2022 Postdoctoral Researcher, Center for Evolution and Medicine, Arizona State University

2017-2019 NSF Postdoctoral Scholar, Department of Anthropology, Stony Brook University & Department of Psychology, University of Washington

EDUCATION

Ph.D., Evolutionary Anthropology, Duke University (2017).

B.A., Philosophy, French Language and Literature, Stony Brook University, *summa cum laude* (2009).

RESEARCH FUNDING

2022 The Leakey Foundation, Research Field Site Grant (\$25,000); PI

2021 The Carter Center Guinea Worm Eradication Program pilot funding (\$18,000); PI

2021 The Leakey Foundation, Research Field Site Grant (\$25,000); PI

2020 Arizona State University, Center for Evolution and Medicine Postdoctoral Research Fellowship (\$140,000, 2.5 years); PI

2017 National Science Foundation, Directorate for Social, Behavioral, and Economic Sciences Postdoctoral Research Fellowship (\$130,000, 2 years); PI

2018 University of Washington Postdoctoral Awards (\$1200); PI

2018 The Leakey Foundation Research Grant (\$25,000); PI

2016 Primate Conservation, Inc. (\$2,900); PI

2012 National Science Foundation, Graduate Research Fellowship (\$130,000, 3 years); PI

2015 Duke Department of Evolutionary Anthropology Graduate Mentorship Award (\$1000); PI

2014 Nacey Maggioncalda Foundation (\$3000); PI

2014 Margot Marsh Biodiversity Foundation (\$10,000); PI

2013 Primate Action Fund, Conservation, Inc. (\$3,000); PI

2013 Duke Department of Evolutionary Anthropology Internal Graduate Award (\$700); PI

2012 Duke Department of Evolutionary Anthropology Graduate Mentorship Award (\$2,000); PI

CONSERVATION & OUTREACH FUNDING

- 2023 Beagle Charitable Foundation (\$20,000); PI
- 2023 Rapid Response Facility (partnership between the UNESCO World Heritage Centre and Fauna & Flora International) grant for conservation emergencies in UNESCO natural World Heritage Sites (\$40,000); PI
- 2021 Beagle Charitable Foundation (\$15,000); PI
- 2019 Natural Habitat Adventures- World Wildlife Federation Partnership grant for conservation projects in Ethiopia (\$5,500); PI

FIELD SITE DIRECTORSHIP

- 2022-present Co-Director, Simien Mountains Gelada Research Project (Simien Mountains National Park, Ethiopia)
- 2019-present Co-Director, Kasanka Baboon Project (Kasanka National Park, Zambia)

PEER-REVIEWED PUBLICATIONS

*denotes undergraduate student mentee

⊗denotes graduate student mentee

*denotes senior authorship

°denotes corresponding author

- (17) Jarvey, J.C.* , Lowe, B.S., Chiou, K.L., Azanaw, A.H., Lu, A., Snyder-Mackler, N., Bergman, T.J., Beehner, J.C., **Schneider-Crease, I.A.***° (2023). Dominant females exploit foraging effort of lower-ranking females for seasonally desirable resources. *Behavioral Ecology*; arad079, <https://doi.org/10.1093/beheco/arad079>
- (16) Watowich, M., Chiou, K.L., Graves, B., Montague, M., Brent, L., Higham, J., Horvath, J., Lu, A., Martinez, M., Platt, M., **Schneider-Crease, I.A.**, Lea, A.J., Snyder-Mackler, N. (2023). Best practices for genotype imputation from low-coverage sequencing data in natural populations. *Molecular Ecology Resources*; 2023;00:1–13.
- (15) Delacey, P.M, Sen, S.⊗, **Schneider-Crease, I.A.**, Chiou, K.L., Lemma, A., Ayele, F., Haile, A.A., Lu, A., Bergman, T.J., Snyder-Mackler, N. (2023). Vascularization underlies differences in sexually selected skin coloration in a wild primate. *Molecular Ecology*;00:1–11. <https://doi.org/10.1111/mec.17026>
- (14) **Schneider-Crease, I.A.**°, Feder, J.A., Baniel, A., McCann, C., Azanaw, A.H., Abebe, B., Fitzgerald, F.* , Gomery, M.A.* , Simberloff, R.A., Petrie, Z.L., Gabriel, S., Dorny, P., Fashing, P.J., Nguyen, N., Bergman, T.J., Beehner, J.C., Snyder-Mackler, N., Lu, A. (2022). Urinary neopterin reflects lifetime variation in innate immunity, helminth-induced immunomodulation, and microbiome diversity in a wild primate. *Scientific Reports*, 12(1): 21307. <https://doi.org/10.1038/s41598-022-25298-9>
- (13) **Schneider-Crease, I.A.**°, Chiou, K.L., Moya, I.L.* , Lemma, A., Ayele, F., Azanaw, A.H., Kebede, F., Abebe, B., Bergman, T.J., Beehner, J.C., Lu, A., Lund, M.C., Custer, J.M., Kraberger, S., Snyder-Mackler, N., Varsani, A. (2022). Novel statovirus identified in fecal samples from wild geladas in the Ethiopian highlands, *Archives of Virology*. <https://doi.org/10.1007/s00705-022-05588-3>

- (12) **Schneider-Crease, I. A.**^o, Weyher, A. H., Mubemba, B., Kamilar, J. M., Petersdorf, M., & Chiou, K. L. (2022). Stronger maternal social bonds and higher rank are associated with accelerated infant maturation in Kinda baboons. *Animal Behaviour*, 189, 47-57.
- (11) Chiou, K. L., Janiak, M. C., **Schneider-Crease, I. A.**, Sen, S.^o, Ayele, F., Chuma, I. S., ... & Snyder-Mackler, N. (2022). Genomic signatures of high-altitude adaptation and chromosomal polymorphism in geladas. *Nature Ecology & Evolution*, 1-14.
- (10) Delacey, P.M., Perlman, R.F., Sen, S.* , **Schneider-Crease, I.A**, Chiou, K.L., Lemma, A., Ayele, F., Higham, J.P., Lu, A., Snyder-Mackler, N., Beehner, J.C., Bergman, T.J. (2022) Assessing male gelada chest patches: color measurement and physiological mechanisms. *Mammalian Biology*, 1-13
- (9) **Schneider-Crease, I.A.**^o, Blackwell, A.D., Kraft, T.S., Emery Thompson, M., Maldonado Suarez, I., Cummings, D.K., Stieglitz, J., Kaplan, H., Snyder-Mackler, N., Gurven, M., Trumble, B.C. (2021). Helminth Parasitism Inhibits Cytokine Responses to Viral and Bacterial Stimulations in a Subsistence Population in Bolivia. *Evolution, Medicine, and Public Health*. 9(1); <https://doi.org/10.1093/emph/eoab035>.
- (8) **Schneider-Crease, I.**^o, Beehner, J.C., Bergman, T.J., Gomery, M.A.* , Koklic, L.* , Lu, A., Snyder-Mackler, N. (2020). Ecology eclipses phylogeny as a major driver of nematode parasite community structure in a graminivorous primate. *Functional Ecology*. doi:10.1111/1365-2435.13603
- (7) Trumble, B.C., **Schneider-Crease, I.** (2020). Chronic Diseases of Aging in an Evolutionary Context. *Evolution, Medicine, and Public Health*. eoaa013, <https://doi.org/10.1093/emph/eoaa013>.
- (6) **Schneider-Crease, I.**^o, Chiou, K.L., Snyder-Mackler, N., Beehner, J.C., Bergman, T.J, Lu, A. (2020). Beyond infant death: the hidden costs of infanticide in geladas (*Theropithecus gelada*). *Animal Behaviour*, 59: 89-95.
- (5) Lu, A., Petrullo, L. Carrera, S., Feder, J., **Schneider-Crease, I.**, Snyder-Mackler, N. (2019). Developmental Responses to Early Life Adversity: Evolutionary and Mechanistic Perspectives. *Evolutionary Anthropology*, doi.org/10.1002/evan.21791.
- (4) Miller, I.F., **Schneider-Crease, I**, Nunn, C.L., Muehlenbein, M.P. (2018). Estimating infection prevalence: best practices and their theoretical underpinnings. *Ecology & Evolution*, 8, 6738-6747.
- (3) **Schneider-Crease, I.**^o, Griffin, R.H., Gomery, M.A.* , Dorny, P., Noh, J.C., Handali, S., Chastain, H., Wilkins, P.P., Nunn, C.L., Beehner, J.C., Bergman, T.J. (2017). Identifying wildlife reservoirs of neglected taeniid tapeworms: Non-invasive diagnosis of endemic *Taenia serialis* infection in a wild primate population. *PLoS Neglected Tropical Diseases*, 11(7), e0005709.
- (2) **Schneider-Crease, I.**^o, Griffin, R.H., Gomery, M.A.* , Bergman, T.J., Beehner, J.C. (2017). High mortality associated with tapeworm parasitism in geladas (*Theropithecus gelada*) in the Simien Mountains National Park, Ethiopia. *American Journal of Primatology*, 79(9), e22684.
- (1) **Schneider-Crease, I.**^o, Snyder-Mackler, N., Jarvey, J.C.* , Bergman, T.J. (2013). Molecular identification of *Taenia serialis* coenurosis in a wild Ethiopian gelada (*Theropithecus gelada*). *Veterinary Parasitology*, 198, 240-243.

BOOK CHAPTERS

- (1) **Schneider-Crease, I.** (2020). Larval Tapeworm Infections in Primates: Coenurosis, Cysticercosis, and Echinococcosis. In: *Neglected Diseases of Monkeys: From the Monkey-Human interface to One Health*, Eds: S. Knauf & L. Jones-Engel. (pp. 323-342). Springer.

OUTREACH

- 2024 Led initiation phase of collaboration with the Addis Ababa Institute of Technology on plastic recycling project, Addis Ababa, Ethiopia. In collaboration with Dr. Araya Abera, Dean of Mechanical Engineering. January 9th-10th, 2024.
- 2023-present Moonshot Accelerator Program Cohort Member, ASU Foundation
- Competitive ASU Foundation program to help position ASU-led projects for obtaining philanthropic funding to advance ASU Charter-driven work.
- 2023-present President & Founder, Ethiopian Organization for Sustainability (*ETHOS*). 501c(3).
- 2023 Led remote workshop for Ethiopian Wildlife Conservation Authority employees on evaluation tools for monitoring conservation interventions. In collaboration with the Duke University Plastic Pollution Working Group. July 7 2023.
- 2021-present Leader of international collaboration between Engineers Without Borders-Arizona State University Chapter, the Addis Ababa Institute of Technology, Debarq University, the Ethiopian Wildlife Conservation Authority, the Duke University Nicholas Institute of the Environment, Gizish Industries, and the School of Sustainability at Arizona State University. Projects include:
- design and implementation of waste management infrastructure in the Simien Mountains National Park
 - development of small-scale recycling/upcycling workshops in Ethiopia
 - capacity-building in engineering, ecotourism, and conservation sectors
- 2019 Mentor, *Girls Embracing Math and Science*. Mentor for girls in science, Seattle, WA.
- 2015-2019 Board member, *Save the Simiens* (501(c)(3)). Coordinator for a non-profit conservation organization in the Simien Mountains National Park (SMNP), Ethiopia. Activities include international and local fundraising, on-site organization, training, and education.
- 2014-2015 Mentor, *BOOST Science Program (NIH)*. Mentored students from historically marginalized backgrounds in science and technology. Durham, NC.

INVITED TALKS

- (14) “Mechanisms of novel pathogen transmission in natural infectious disease networks: the impact of animal migrations on local microbial, viral, and parasitological communities.” Club EvMed, TriCEM, Durham, NC. *Virtual*. 2023
- (13) “Disease ecology and zoonoses in a One Health framework” Department of Evolutionary Anthropology, Duke University. *Virtual*. 2023
- (12) “Ecological dimensions of zoonotic emergence in natural systems” Integrative Biology Seminar Series, Michigan State University, East Lansing, MI. *Virtual*. 2023
- (11) “One Health Approaches to Zoonoses: tapeworms, viruses, and Guinea worm in primates.” North Carolina State University College of Veterinary Medicine, Raleigh, North Carolina. 2022
- (10) “Zoonoses through an ecological lens: primates and their pathogens.” Department of Evolutionary Anthropology, Duke University. 2022

- (9) “Disease ecology from multiple dimensions: leveraging natural systems to understand broad patterns of infectious disease” Department of Wildlife and Fisheries, Penn State University. 2022
- (8) “Multidimensional approaches to understanding drivers of novel disease emergence in natural systems.” Center for Tropical and Emerging Infectious Diseases, Department of Infectious Diseases, College of Veterinary Medicine, University of Georgia. 2022
- (7) “From ecological networks to individuals: drivers of novel disease emergence in natural systems.” Department of Ecology and Evolution, University of Tennessee Knoxville. 2021
- (6) “From the global to the personal: ecological interactions as drivers of health and disease in humans and nonhuman primates.” Host-Parasite Interactions Group, University of Calgary, Alberta, Canada. *Virtual*. 2021
- (5) “Drivers of heterogeneity in patterns of infectious disease in primates”. Guinea Worm Eradication Program, The Carter Center, Atlanta, GA. *Virtual*. 2021
- (4) “Parasitism, life history, and immunity in a globalized world”. Center for Evolution and Medicine Seminar Series. Arizona State University, Tempe, AZ. *Virtual*. 2020
- (3) “Integrating conservation, public health, and primate behavior in the Simien Mountains National Park, Ethiopia.” Ministry of Science and Technology, Addis Ababa, Ethiopia. 2017.
- (2) “A parasitic driver of natural selection in primates: effects of age, sex, and anthropogenic habitat change.” Sociality and Health in Primates (SoHaPi) workshop. Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany. 2016.
- (1) “To each their own (parasite): Gastrointestinal parasites in a population of captive lemurs”, le Centre Québécois sur la santé des Animaux Sauvages, Faculté de médecine vétérinaire, Université de Montréal, Sainte-Hyacinthe, QC. 2012.

PRESENTATIONS

- (11) **Schneider-Crease I.**, Weyher, A.H., Petersdorf, M., Kamilar, J., Chiou, K.L. Maternal friendships speed up infant development in Kinda baboons. American Association of Biological Anthropologists (AABA). Reno, Nevada. 2023.
- (10) **Schneider-Crease, I.**, Blackwell, A.D., Kraft, T.S., Emery Thompson, M., Maldonado Suarez, I., Cummings, D.K., Stieglitz, J., Kaplan, H., Snyder-Mackler, N., Gurven, M., Trumble, B.C. “Helminth infection is associated with dampened cytokine responses to viral and bacterial stimulations in Tsimane hunter-horticulturalists”. 6th Annual Meeting, International Society for Evolutionary Medicine and Public Health (ISEMPH). Lisbon, Portugal. 2022.
- (9) **Schneider-Crease, I.**, Beehner, J.C., Lu, A., Bergman, T.J., Snyder-Mackler, N. “Ecology eclipses phylogeny as a driver of parasite community structure in a gaminivorous primate” International Primatological Society. Quito, Ecuador. *Virtual*. 2021.
- (8) **Schneider-Crease, I.**, Blackwell, A.D., Kraft, T.S., Emery Thompson, M., Maldonado Suarez, I., Cummings, D.K., Stieglitz, J., Kaplan, H., Snyder-Mackler, N., Gurven, M., Trumble, B.C. “Helminth Parasitism Inhibits Cytokine Responses to Viral and Bacterial Stimulations in a Subsistence Population in Bolivia”. American Association of Physical Anthropologists (AAPA), *Virtual*. 2021.
- (7) Kamilar, J.M., Weyher, A.H., Petersdorf, M., Chiou, K.L., **Schneider-Crease I.** “Maternal rank and infant development of Kinda baboons at Kasanka National Park, Zambia”. American Association of Physical Anthropologists (AAPA), *Virtual*. 2021.
- (6) **Schneider-Crease, I.**, Griffin, R.H., Gomery, M.A., Bergman, T.J., Beehner, J.C. “Zoonotic taeniid infections: Fitness costs in a primate model system”. 5th Annual Meeting, International Society for Evolutionary Medicine and Public Health (ISEMPH). Zurich, Switzerland. 2019.

- (5) **Schneider-Crease, I.**, Noh, J.C., Bergman, T.J., Beehner, J.C. "Diagnosing *Taenia serialis* in wild geladas: Novel use of adapted urine Ag-ELISA for assessing wildlife health." 2nd Annual Meeting, International Society for Evolutionary Medicine and Public Health (ISEMPH), Durham, NC. 2016.
- (4) **Schneider-Crease, I.**, Griffin, R.H., Jarvey, J.C., Bergman, T.J., Beehner, J.C. "Cease and De Cyst: Females more likely than males to fight off tapeworm cysts." 85th Annual Meeting, American Association of Physical Anthropologists (AAPA), Atlanta, GA. 2016.
- (3) **Schneider-Crease, I.** "Primate Conservation and Disease." Duke Talent Identification Program, Duke University, Durham, NC. 2015.
- (2) **Schneider-Crease, I.**, Schopler, R., Digby, L. "Cross-species parasite prevalence: pinworms in captive lemurs." 82nd Annual Meeting, American Association for Physical Anthropologists (AAPA), Knoxville, TN. 2013.
- (1) **Schneider-Crease, I.**, Schopler, R., Digby, L. "Cross-species parasite patterns: pinworm prevalence in captive lemurs." Women in Science and Engineering Symposium 2012, Duke University, Durham, NC. 2012.

TEACHING AND MENTORING

Instructor of Record

- Advanced Evolutionary Medicine (ASU online: ASB/BIO 408/507; Spring 2023 B session, Spring 2024 B session)
- One Health (ASU: ASB/BIO 494/598; in person Fall 2023; online Spring 2024 B session)
- Advanced Primate Conservation (Duke University)

Course development

- One Health (ASU: ASB/BIO 494/598)

Faculty lead

- Engineers Without Borders-ASU Chapter (2020-present). 29 ASU students, 5 Ethiopian students at the Addis Ababa Institute of Technology, weekly meetings. 2020-present.

Training and credentials

- 2024 ASU Master Class for Teaching Online. *Online training, January-February 2024.*
- 2023 Ask Them! Measuring Student Impact with Student Surveys, Course Evaluations & Feedback, National Higher Education Teaching Conference. *Online training, September 2023*
- 2023 Mentoring Matters Panel: Communicating Effectively, ASU Graduate College. *Online training, September 2023*
- 2023 Association of College and University Educators (ACUE) Microcredential: Creating an Inclusive and Supportive Learning Environment. *Online training, March 2023*

PhD committee member:

- Noor Kutubul Alam Siddiquee, School of Human Evolution and Social Change, Arizona State University
- Catherine Kitrinos, Department of Anthropology, University of Massachusetts Amherst.

Undergraduate supervisor:

Barrett Honors College:

- 2021-2023: Isabella Moya (defended December 2023)
- 2023-present: Maya Saroff (anticipated defense May 2025)

Arizona State University

- Alejandro Ortiz (SOLS)
- Jess Neumaier (SOLS)
- Jack Schwebel (SOLS)
- Tiffany Duong (SOLS)
- Loren Hutchings (SHESC; completed December 2023)
- Aliya Kammerer (SOLS, completed May 2022)
- Lia Koklic (University of Washington, Animal Behavior program, completed May 2018)

Undergraduate committee member

- Sophia Balasubramanian (Arizona State University; 2024)

Teaching Assistant (Duke University): Human Anatomy, Primate Sexuality, Sociobiology, Human Osteology, Introduction to Biological Anthropology.

SERVICE

Reviewer for *Science Advances*, *Emerging Infectious Diseases*, *Philosophical Transactions B*, *PLOS ONE*, *American Journal of Primatology*, *National Geographic*, *Parasitology International*, *International Journal for Parasitology*, *International Journal for Parasitology: Parasites and Wildlife*, *Primates*, *Ecology and Evolution*, *Global Ecology and Conservation*, *Heliyon*, *Royal Society Open Science*, *Evolution*, *Medicine, & Public Health*

IN THE MEDIA

- 2023 UNESCO World Heritage Convention. UNESCO provides crucial support to biodiversity in Africa in emergency situations. <https://whc.unesco.org/en/news/2589>
- 2023 Arizona State University (ASU) team helps protect World Heritage Site in Ethiopia. *Ethiopia Semonegna*. <https://semonegna.com/simien-mountains-gelada-research-project-ethiopia/>
- 2023 Interview, ASU News. *ASU team helps protect World Heritage site in Ethiopia*. <https://news.asu.edu/20230411-asu-team-leads-massive-international-cleanup-efforts-simien-mountains-national-park>
- 2022 Interview, ASU News. *Baby Kinda baboons become independent faster if moms are social, dominant*. <https://news.asu.edu/20220811-new-research-baby-kind-baboons-become-independent-faster-if-moms-are-social-and-dominant>
- 2015-2016 Popular media interviews and coverage, research and conservation, *Amhara Mass Media Agency (AMMA)*, *Ethiopian Television (ETV)*, *ShayBuna*, *Ethiopian News Agency*

MISCELLANEOUS

Certificate in wildlife handling and chemical immobilization from Global Wildlife Resources.
 Certificate in wilderness first aid from Survival Med.