

India A. Schneider-Crease

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Arizona State University

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CURRENT POSITION

Postdoctoral Fellow, Center for Evolution and Medicine, Arizona State University

EDUCATION

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

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

RESEARCH SUPPORT

- 2020 Arizona State University, Center for Evolution and Medicine Postdoctoral Research Fellowship (\$70,000, 1 year): PI
- 2018-19 University of Washington Postdoctoral Awards (\$1200): PI
- 2018 The Leakey Foundation Research Grant (\$25,000): PI
- 2017 National Science Foundation, Directorate for Social, Behavioral, and Economic Sciences Postdoctoral Research Fellowship (\$130,000, 2 years): Co-PI
- 2016 Primate Conservation, Inc. (\$2,900): 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
- 2012 National Science Foundation, Graduate Research Fellowship (3 years).

PUBLICATIONS

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. *In review*.

- Schneider-Crease, I.** (*In press*). Coenurosis and Echinococcosis. In: Neglected Diseases of Monkeys: From the Monkey-Human interface to One Health, Eds: S. Knauf & L. Jones-Engel.
- Schneider-Crease, I.,** Lu, A., Beehner, J.C., Bergman, T.J., Snyder-Mackler, N. (2020). Ecology eclipses phylogeny as major driver of nematode parasite community structure in a graminivorous primate. *Functional Ecology*. doi:10.1111/1365-2435.13603
- Trumble, B.C., **Schneider-Crease, I.** (2020). Chronic Diseases of Aging in an Evolutionary Context. *Evolution, Medicine, and Public Health*. eoa013, <https://doi.org/10.1093/emph/eoa013>.
- Schneider-Crease, I.,** 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.
- 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.
- 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.
- Schneider-Crease, I.,** Griffin, R. H., Gomery, M. A., Dorny, P., Noh, J. C., Handali, S., ... & Beehner, J.C. (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.
- Schneider-Crease, I.,** 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.
- Schneider-Crease, I.,** 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.

TEACHING

Instructor: Advanced Primate Conservation. *Teaching Assistant:* Human Anatomy, Primate Sexuality, Sociobiology, Human Osteology, Introduction to Biological Anthropology.

COMPUTATIONAL, FIELD, AND LABORATORY TOOLKIT

Programming: R, Unix.

Field skills: Wildlife immobilization, telemetry/GIS, camera traps, vegetation and animal transects, questionnaire development, behavioral data collection.

Laboratory skills: Genetics and genomics, immunology, parasitology.

Languages: English (natal), French (DALF Level C1+)

CONSERVATION WORK AND OUTREACH

- 2019 Mentor, *Girls Embracing Math and Science*. Mentor for girls in science, Seattle, WA.
- 2015-present Coordinator and 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, continuous assessment of results, and training and education.
- 2015-2016 Popular media interviews and coverage, research and conservation, *Amhara Mass Media Agency (AMMA)*, *Ethiopian Television (ETV)*, *ShayBuna*, *Ethiopian News Agency*.
- 2014-2015 Mentor, *BOOST Science Program*. Mentored students from economically challenged backgrounds in science and technology. Durham, NC.

PRESENTATIONS AND INVITED TALKS

- 2020 **Schneider-Crease, I.**, Parasitism, life history, and immunity in a globalized world. Center for Evolution and Medicine Seminar Series. Arizona State University, Tempe, Arizona, 10/2020
- 2020 **Schneider-Crease, I.**, Beehner, J.C., Lu, A., Bergman, T.J., Snyder-Mackler, N. "Is phylogeny or ecology a stronger driver of parasite community structure in a gaminivorous primate?" International Primatological Society. Quito, Ecuador, 8/2020 *Postponed due to covid-19.
- 2019 **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, 8/15, podium.
- 2017 **Schneider-Crease, I.**, Gomery, M.A. "Conservation and biological research in the Simien Mountains National Park, Ethiopia." Ministry of Science and Technology, Addis Ababa, Ethiopia, 11/12, invited podium.
- 2016 **Schneider-Crease, I.** "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, 10/28, invited podium.
- 2016 **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, 6/6, podium.
- 2016 **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, 4/16, podium.
- 2015 **Schneider-Crease, I.** "Primate Conservation and Disease." Duke Talent Identification Program, Duke University, Durham, NC, June 22nd, podium.
- 2013 **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, 4/15, poster.
- 2012 **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, 12/1, poster.

2012 **Schneider-Crease, I.** "To each their own (parasite): Gastrointestinal parasite occurrence 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, 6/8, podium.

SERVICES

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.