

SARAH JAFFE

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INTERESTS

- Long-term ecological research using big data to identify drivers of spatiotemporal trends
- Gaining a better understanding of models and machine learning using data science
- Developing a range of science communication tools that cross stakeholder boundaries
- Thoughtfully designing code for others' immediate and future use
- Collaborating with others to gain new insight on shared interests

EDUCATION

2022 (exp.) PhD Environmental Studies, University of Colorado Boulder
2007 MS Primate Conservation, Oxford Brookes University
2003 BS Primate Behavior & Ecology, Central Washington University
2003 BA Anthropology, Central Washington University

CURRENT POSITION

2021 – present **Learning Technology Consultant**, University of Colorado Boulder:
Provide software consultation, supporting clients needs by quickly learning dynamic software, troubleshooting within and around software limitations and supply solutions for customized materials and interfaces.

RESEARCH POSITIONS

2020 **Graduate Research Assistant**, Center for Sustainable Landscapes and Communities, University of Colorado Boulder
PI: Dr. Sharon Collinge
Project: In collaboration with local researchers and others, analyzed and reported data for Boulder County's first ecosystem trends report.

2020 **Provost Fellow**, Earth Sciences and Map Library, CU Boulder
PI: Mr. Philip White
Project: Created an open-source, automated program georeferencing 1,000s of historical Colorado aerial images for online map visualization.

Summer 2017 **Graduate Research Assistant**, Earth Lab, CU Boulder
PI: Dr. Jennifer Balch and Dr. Carol Wessman
Project: A Colorado forest regeneration research project at Cold Springs fire scar where I focused on research protocols and soil sampling.

2013 – 2016 **Field Manager**, Cabang Panti Research Station, University of Michigan
PI: Dr. Andrew J. Marshall
Project: Managed and participated in an *in-situ*, long-term biodiversity research project in Borneo that included vertebrate and phenology surveys, weather monitoring, and environmental education programs.

2008 **Post-Graduate Researcher**, Department of Social Sciences, Oxford Brookes University
PI: Dr. Anna Nekaris
Project: Compiled and analysed data regarding taxonomy, conservation, behavior, and ecology to assist with publications and grant writing.

- 2007 **Program Manager**, Botum Sakor National Park, Frontier – Society for Environmental Exploration
Project: An in-situ biodiversity project and associated livelihood assessments study throughout Botum Sakor National Park, contributing to Cambodia’s forest management plans.
- 2006 **Zoology Assistant**, Oxford University Museum of Natural History
PI: Dr. Malgosia Nowak-Kemp
Project: Catalogued their obscure turtle collection.
- 2004 – 2005 **Project Manager**, Department of Biological Anthropology, Duke University
PI: Dr. Daniel Schmitt
Project: An osteoarthritis gait analysis study and associated vertebrate biomechanics study.
- 2003 – 2005 **Prosimian Project Manager**, Center for Cognition and Neuroscience, Duke University
PI: Dr. Elizabeth Brannon
Project: Various numeric cognition research projects with lemurs, monkeys and human infants.
- 2002 **Research Assistant**, Ubud Monkey Forest, Central Washington University
PI: Dr. Agustin Fuentes
Project: An in-situ long-tailed macaque (*Macaca fascicularis*) and tourist interactions behavioral study in a Balinese temple environment.
- 2000 – 2002 **Research Assistant**, Department of Anthropology Central Washington University
PI: Dr. Agustin Fuentes
Project: Managed long-term long-tailed macaque field data, of which I conducted independent research on affiliative behaviors.
- 1999 – 2002 **Research Assistant and Husbandry Apprentice**, Chimpanzee and Human Communication Institute, Central Washington University
PI: Dr. Mary Lee Jensvold, Dr. Debbie Fouts, and Dr. Roger Fouts
Project: Various non-invasive behavioural studies on captive chimpanzees while simultaneously caring for them.

AWARDS AND CERTIFICATIONS

University of Colorado Boulder, Environmental Studies Program Graduate Research Grant, *Hardware for a dissertation requiring big data analyses: “Short-distance elk migrants’ movement responses to anthropogenic and natural variables at the National Elk Refuge: Past, Present and Future”*, 2020: \$1,500

University of Colorado Boulder, Completed the series of courses associated with the *Earth Data Analytics-Foundations* certificate program, 2020.

University of Colorado Boulder, Provost’s Fellowship for the University Libraries, *Automate georeferencing of the Earth Sciences and Map Library’s historic aerial images collection*, 2020: \$3,000

University of Colorado Boulder, *Certificate in GIS for Sustainability*, 2019.

University of Colorado Boulder, Environmental Studies Program Graduate Research Grant, *NEON Data Institute Tuition for Remote Sensing with Reproducible Workflows in Python*, 2018: \$577

University of Colorado Boulder, Environmental Studies Program Graduate Research Grant, *Stakeholders' perceptions on the human-wildlife conflict created by elk's (*Cervus elaphus nelsoni*) changing migration patterns and using these perceptions to find synergistic solutions in Boulder County*, 2017: \$1,500

Association of Zoos and Aquariums Ape TAG Conservation Initiative Grant, *Preserving apes and building capacity using participatory monitoring of ape populations across complex ecological landscapes*, 2014–2016. Co-author with Dr. Andrew J. Marshall: \$30,000

TECHNOLOGICAL SKILLS (alphabetical)

ArcGIS	MySQL Workbench
ENVI	OS: Linux, Mac, PC
GitHub	R Studio
Jupyter Notebooks	Spyder
Languages: Python, R, SQL, HTML, CSS, JavaScript	Statistical Software: SAS, SPSS
Microsoft Excel	Various Field Data Collection Techniques

COURSEWORK AND TRAINING (alphabetical)

Advanced Remote Sensing (ENVI)	GIS Spatial Programming (Python)
Data Science for Biological Research (R)	NEON Data Workshop (Python)
Earth Analytics Series (Python)	Quantitative Methods in Geography (R)
GIS Modeling Application (ArcGIS)	Remote Sensing of the Environment (ArcGIS)
GIS Project Management (Excel)	Various Earth Lab Workshops (Python)

PUBLICATIONS

Fischer JH, Wittmer HU, Setiawan E, **Jaffe S**, Marshall AJ. 2017. Incipient loss of rainforest mutualism? *Journal of Threatened Taxa* (9)1: 9734-9737.

Allen ML, Wittmer HU, Setiawan E, **Jaffe S**, Marshall AJ. 2016. Scent marking in Sunda clouded leopards (*Neofelis diardi*): Novel observations close a key gap in understanding felid communication behaviours. *Scientific Reports* (6): 35433. [doi:10.1038/srep35433](https://doi.org/10.1038/srep35433)

Jaffe S, Fitch-Snyder H, Nekaris KAI, Streicher U, Schulze H, Starr C, Pliwsungnoen M. 2016. *Nycticebus*. In N. Rowe and M. Myers (Eds.), *All the World's Primates*, Charleston: Pogonias Press.

Nekaris KAI, **Jaffe S**, Donati G. 2012. Forest fragmentation imperils red slender lorises (*Loris tardigradus tardigradus*) in South-Western Sri Lanka. *Leaping Ahead: Advances in Prosimian Biology*. In Masters J, Gamba M, Genin F. Springer, New York.

Jaffe S, Nijman, V. 2008. Progress, prospects and pitfalls in primate biogeography. *Contributions to Zoology* 77(2): 135-138.

Nekaris KAI, **Jaffe S.** 2007. Unexpected diversity of slow lorises (*Nycticebus spp.*) within the Javan pet trade: Implications for slow loris taxonomy. *Contributions to Zoology* 76(3): 187-196.

Merritt D, MacLean EL, **Jaffe S**, Brannon EM. 2007. A comparative analysis of serial ordering in ring-tailed lemurs (*Lemur catta*). *Journal of Comparative Psychology* 121(4): 363-371.

Jaffe S. 2006. New rescue and rehabilitation centre for slow lorises. *Canopy* 4(2): 9.

Lewis KP, **Jaffe S**, Brannon EM. 2005. Analog number representation in mongoose lemurs (*Eulemur mongoz*): Evidence from a search task. *Animal Cognition* 8(4): 247-252.

Jaffe S, Jensvold ML, Fouts D. 2002. Chimpanzee to chimpanzee signed interactions. In V. Landau (ed.), *2001 ChimpanZoo Conference Proceedings: The Chimpanzee Community*, ChimpanZoo, Tucson, pp. 67-75.

SELECTION OF PRESENTATIONS, PUBLISHED ABSTRACTS, AND POSTERS

Jaffe S. 2008. Oxford, U.K., University of Oxford. Department of Archaeology and Anthropology: Human Sciences, 'Humans as primates and the origins of bipedalism.'

Jaffe S, Nekaris, KAI. 2007. Taxonomy of Indonesian slow lorises (*Nycticebus spp.*): Implications of the illegal trade. International Congress Prosimians, Ithala, South Africa. In *Prosimians 2007 Abstract Book*, Ithala Game Reserve, Kwazulu-Natal, pp. 60.

Merritt DJ, MacLean EL, **Jaffe S**, Brannon EM. 2007. Serial order processing in ring-tailed lemurs (*Lemur catta*). American Primatological Society, North Carolina, U.S.A. In *American Journal of Primatology*, 69(Suppl 1): 101.

Jaffe S, Nekaris KAI. 2006. Taxonomy of Indonesian slow lorises (*Nycticebus spp.*): Implications of the illegal trade. Primate Society of Great Britain, Cambridge, U. K.

Saxena S, **Jaffe S**, Brannon EM. 2004. Numerical representation in *Eulemur mongoz* and *Eulemur coronatus*. Howard Hughes Summer Research Program, North Carolina, U.S.A.

Lewis LP, **Jaffe S**, Brannon EM. 2004. Numerical cognition in prosimian primates. CO3: International Conference on Comparative Cognition, Florida, U.S.A.

Jaffe S, Fuentes A. 2002. Differential association patterns in long-tailed macaques (*Macaca fascicularis*) in Bali, Indonesia. Source: Symposium on Undergraduate Research and Creative Expression, Washington, U.S.A.