

Sofia K. Blue (Bernstein)

Lecturer

Department of Anthropology and Museum Studies, Primate Behavior and Ecology
Program, Central Washington University

OFFICE ADDRESS

Department of Anthropology and Museum Studies
Dean, Room 334
400 E. University Way
Ellensburg, WA 98926-7537

PHONE/ EMAIL

509-963-3209
bernstes@cwu.edu

RESEARCH INTERESTS

Ethology
Bioacoustics
Evolution of communication systems in non-human primates
Interspecies communication
Sexual selection
Tactical deception
Animal ethics and animal welfare science

EDUCATION

2016

D.Sc. Kyoto University, Primate Research Institute, Ecology and Social Behavior
L5 Student of the Leading Graduate Program in Primatology and Wildlife Science
(PWS)

Chairs: Drs. Michael Huffman and Hiroki Koda

Dissertation: The Vocal Repertoire of Tibetan Macaques in Mt. Huangshan, China: A
Quantitative Analysis, Congeneric Comparisons, and Species-Specific Derived Calls

2012

M.Sc. Central Washington University, Primate Behavior and Ecology

Chairs: Drs. Lori Sheeran and Steve Wagner

Thesis: Sexual Coercion and Mate Choice Tactics in Tibetan Macaques (*Macaca thibetana*) at Mt. Huangshan, China

2009

B.A. University of North Texas, Psychology

PUBLICATIONS

Bernstein, I.S., **Blue, S.K.** Ethograms, Activity Profiles and Energy Budgets. *Encyclopedia of Animal Behavior, 2nd Ed.* (invited paper, in press)

Bernstein, I.S., **Blue, S.K.** Dominance Relationships, Dominance Hierarchies and Rankings. *Encyclopedia of Animal Behavior, 2nd Ed.* (invited paper, in press)

Martin-Solano, S., Carrillo-Bilbao, G.A., **Blue, S.K.**, Martinage, A., Levecke, B., Losson, B., Wagner, R.S., Huynen, M.C. Insights into Parasite Transmission by Social Network Analysis in Non-Human Primates: Implications for Captive Management. *Primates* (in review)

Dura, E., Sheeran, L., Ruppert, N., Arango, C., **Blue, S.K.** Mother-infant Interactions in a Wild Population of Southern Pig-tailed Macaques (*Macaca nemestrina*). (in press)

Bernstein, S.K., Sheeran, L.K., Wagner R.S., Li J.H., Koda, H. (2016) The Vocal Repertoire of Tibetan macaques (*Macaca thibetana*): A Quantitative Classification. *American Journal of Primatology* 78:937-949.

Sun, B., Xi, W., **Bernstein, S.K.**, Huffman, M., Xia, D.P., Gu, Z., Chen, R., Sheeran, L.K., and Li, J.H. (2016) Marked Variation between Winter and Spring Gut Microbiota in Free-Ranging Tibetan Macaques (*Macaca thibetana*). *Scientific Reports* DOI:10.1038/srep26035.

Blue, S.K., Fischer, J., Hammerschmidt, K. Comparing the Vocal Repertoires of Tibetan and Barbary Macaques using Fuzzy Clustering Analyses (in prep)

Blue, S.K., Sheeran, L.K., Wagner R.S., Li J.H., Koda, H. Possible Functions of Female Copulation Calls in Tibetan Macaques: Audience Effects and Harassment. (in prep)

FUNDING

2017

German Primate Center Visiting Researcher Grant

Prentice Foundation Research Grant

2015-2016

Primate and Wildlife Science Leading Graduate Program JSPS Grant

2014

Primate and Wildlife Science Leading Program Research Assistant 2014- August

2013

Kyoto University, Primate Research Institute Graduate Research/Teaching Assistant

Monbukagakusho JASSO (Japan Student Services Organization) Honors Scholarship for Privately Financed International Students (October 2013 - April 2014)

2012

Central Washington University Young Researcher Grant in Biology

2011

NSF/IRES Grant Funding for Primate Research at Mt. Huangshan China

Central Washington University Research/Teaching Assistantship 2010-2011

RESEARCH AND WORK EXPERIENCE

2017

- Visiting Researcher at the German Primate Center. Comparison of the Tibetan and Barbary Macaque Vocal Repertoires using Fuzzy Cluster Analyses (August 2017)

- Visiting Researcher at the Gibbon Conservation Center (July 2017)

2016

-Tibetan Macaque Female Copulation Calls and the Audience Effect. Data Analysis and Testing the Existing 14 Hypotheses and Pradhan et al.'s model

-Dead Infant Carrying during Copulations by Female Tibetan Macaques in the Mating Season at Mt. Huangshan, China. Data Analysis and Write Up

2015

-Bioacoustic Analysis of the Vocal Repertoire of Tibetan Macaques in Mt. Huangshan, China

-Fieldwork and Analysis of Research Concerning Infant Mortality in a Group of Free-Ranging Tibetan Macaques at Mt. Huangshan, China with Central Washington University's China Field School Program and Primate Behavior and Ecology Program

-Fieldwork and Collaborative Project with Anhui University Investigating the Influence of Season on the Gut Microbiota of Tibetan macaques at Mt. Huangshan, China

2014

- Analysis of the Vocal Repertoire of Tibetan Macaques

-Fieldwork in Mt. Huangshan, China (August 2014 – February 2015). Vocal Recordings Collection for Assessment of the Vocal Repertoire of Tibetan Macaques

2013

-Language Acquisition and Alternate Modes of Communication in Children with Autism, Autism Spectrum Therapies Behavioral Analyst (2012 - 2013)

2012

-Assessing Parasite Load and Social Transmission in Woolly Monkeys at Yana Cocha Sanctuary, Puyo, Ecuador (March 2012 - June 2012)

-Construction of an Ethogram of Abnormal Behaviors in the Non-Human Primates of Yana Cocha Sanctuary, Puyo, Ecuador and Training of Volunteers (March 2012 – June

2012)

-In Search of the Deadly Chytrid Fungus in the Frogs of Puyo, Ecuador (March 2012 - June 2012)

2011

-Fieldwork at Mt. Huangshan, China Investigating Sexual Coercion and Mate Choice Tactics in Tibetan Macaques (August 2011- October 2011)

2009

-Applied Behavioral Analysis Research Assistant, Child Study Center, Fort Worth, Texas (June 2008 - November 2009)

-Research Assistant in the Human Lab, Department of Psychology, Section of Applied Behavioral Analysis, University of North Texas (January 2009 - December 2009)

PRESENTATIONS

Oral Presentations

Bernstein, S.K., Sheeran, L.K., Wagner, R.S., Li, J.H., Koda, H. A Quantitative Analysis of the Vocal Repertoire of a Free-Ranging Group of Tibetan Macaques (*Macaca thibetana*) in the Valley of the Wild Monkeys, Mt. Huangshan, China. *ASP/IPS Joint Meeting*, Chicago, August 2016

Bernstein, S.K., Sheeran, L.K., Wagner, R.S., Li, J.H., Koda, H. A Sex-Specific Audience Effect on Female Tibetan Macaque Sexual Behavior. *ATINER 2nd Annual Conference in Biology*, Athens, Greece, June 2016.

Bernstein, S.K., Sheeran, L.K., Wagner, R.S., Li, J.H., Koda, H. The Vocal Repertoire of Tibetan Macaques: Quantitative Classifications and Congeneric Comparisons. *16th Annual Gathering in Biosemiotics*, Prague, Czech Republic, July 2016.

Bernstein, S.K. The Vocal Repertoire of Tibetan macaques (*Macaca thibetana*): A Quantitative Classification and Congeneric Comparisons. *The 5th Annual Symposium of the Leading Graduate Program in Primatology and Wildlife Science*, Inuyama, Japan, 2016

Bernstein, S.K., Sheeran, L.K., Wagner R.S., Li J.H., Koda, H. The Vocal Repertoire of Tibetan macaques (*Macaca thibetana*): A Quantitative Classification. 60th *PRIMATES Conference*, Inuyama, Japan, 2016

Bernstein, S.K. Investigating the Vocal Repertoire of Tibetan Macaques and Collaborative Work at the Valley of the Wild Monkeys. *The 4th International Symposium on Primatology and Wildlife Science (Interim Symposium)*, Kyoto, Japan 2015

Bernstein, S.K. Report on Research Conducted on Wild Tibetan macaques in the Valley of the Wild Monkeys, Mt. Huangshan, China. *The 4th International Seminar on Biodiversity and Evolution*, Kyoto, Japan, 2015

Bernstein, S.K. Investigating the Vocalizations of Tibetan Macaques in the Valley of the Wild Monkeys at Mt. Huangshan, China and Collaborative Work with Anhui and Central Washington University. *The 3rd Annual Symposium of the Leading Graduate Program in Primatology and Wildlife Science*, Kyoto, Japan 2015

Bernstein, S.K. Vocalizations in Tibetan Macaques and Collaborative Work with Central Washington University and Anhui University. *Guest Lecture Series*, Central Washington University, 2015

Bernstein, S.K. Sexual Coercion and Mate Choice Tactics in Tibetan Macaques at Mt. Huangshan, China. *Darwin Day*, Central Washington University, 2012

Bernstein, S.K. Justify Your Existence: Research in China. Central Washington University, *Lecture Series for the William O. Douglas Honors College*, 2011

Posters

Bernstein, S.K., Sheeran, L.K., Wagner, R.S., Li, J.H., Koda, H. Possible Functions of Female Copulation Calls in Tibetan Macaques. *8th European Conference on Behavioral Biology*, Vienna, Austria, July 2016.

Bernstein, S.K. Tibetan Macaque Infant Mortality and Field Site Management in the Valley of the Wild Monkeys (VWM). *The 31st Congress of the Primate Society of Japan*, Kyoto, Japan, 2015

Bernstein, S.K. Tibetan Macaque Infant Mortality and Field Site Management in the Valley of the Wild Monkeys (VWM). *The 4th International Symposium on Primatology and Wildlife Science (Interim Symposium)*, Kyoto, Japan, 2015

Bernstein, S.K. Tibetan Macaque Infant Mortality and Field Site Management in the Valley of the Wild Monkeys (VWM). *Kyoto University's Leading Graduate School Programs Joint Workshop*, Kyoto, Japan, 2015

Bernstein, S.K. Investigating the Vocalizations of Tibetan Macaques in the Valley of the Wild Monkeys at Mt. Huangshan, China and Collaborative Work with Anhui and Central Washington University. *The 3rd Annual Symposium of the Leading Graduate Program in Primatology and Wildlife Science*, Kyoto, Japan 2015

Bernstein, S.K. Previous Study at the Valley of the Wild Monkeys and the Next Generation of Research and Community Outreach. *The 1st International Symposium on Primatology and Wildlife Science*, International Institute for Advanced Studies, Japan, 2014

TEACHING EXPERIENCE

Fall 2018

Central Washington University

Lecturer: Research Methods in Primatology, Primate Social Behavior

Spring 2018

Central Washington University

Lecturer: Introduction to Biological Anthropology (Online)

Winter 2018

Central Washington University

Lecturer: Introduction to Biological Anthropology (Lecture and Lab)

Fall 2017

Central Washington University

Lecturer: Introduction to Biological Anthropology (Lecture and Lab), Research Methods in Primatology, Current Issues in Primatology

Spring 2017

Central Washington University

Lecturer: Introduction to Biological Anthropology, Introductory Biostatistics, Introductory Biostatistics Laboratory

Winter 2017

Central Washington University

Lecturer: Introduction to Biological Anthropology, Primate Evolution, Introductory Biostatistics, Introductory Biostatistics Laboratory

Fall 2016

Central Washington University

Lecturer: Fundamentals of Biology, Fundamentals of Biology Lab, Research Methods in Primatology

Spring 2015

Kyoto University

Guest Lecturer- “Zoo History and Zoos in the 21st Century” Zoo Biology (Dr. Fred Bercovitch)

Guest Lecturer- “Current Topics in Conservation: The Ivory Trade”, Conservation Biology (Dr. Fred Bercovitch)

Primate Society of Japan

Workshop Organizer and Guest Speaker- “Street Monkey Performance: Cultural Roots and Welfare”

Central Washington University

Guest Lecturer- Testimonials in Primatology: Research Abroad. Cultural Anthropology (Dr. Steve Hackenberger)

Winter 2011

Central Washington University

Teaching/ Research Assistant- Nonhuman Animal Ethics (Dr. Matthew Altman)

Teaching Assistant- Primate Evolution: The Fossil Record (Dr. Lori Sheeran)

Fall 2010

Central Washington University

Teaching Assistant- Physiological Psychology (Dr. Megan Matheson)

MEMERSHIPS

2015- present Primate Society of Japan

2015- present International Primatological Society

MEDIA

Television

CCTV Interview, Tibetan Macaques Across the Seasons, 2015

Your World TV Show, Episode: Primate Research and Studying Abroad at Central Washington University, 2012

Press

Central Washington University, The Observer Newspaper, Article Studying Abroad at Central Washington University, 2012

Podcast

Interviewer and Co-Producer, The PrimateCast, Inuyama, 2014- 2016

<http://www.cicasp.pri.kyoto-u.ac.jp/news/podcasts>

Episode #35 Nina's Passion- an Earth Day 2015 Special, The PrimateCast, Center for International Collaboration in Advanced Studies in Primatology (CICASP), Kyoto University

Episode #24 An Interview with Dr. Raman Sukumar- Coverage of the 74th Annual Congress of the Japan Society for Animal Psychology, The PrimateCast, CICASP, Kyoto University

Episode #23 An Interview with Dr. Maciej Trojan- Coverage of the 74th Annual Congress of the Japan Society for Animal Psychology, The PrimateCast, CICASP, Kyoto University

Episode #22 Communication- Coverage of the 74th Annual Congress of the Japan

Society for Animal Psychology, The PrimateCast, CICASP, Kyoto University

Episode #21 Pro-social Behavior- Coverage of the 74th Annual Congress of the Japan Society for Animal Psychology, The PrimateCast, CICASP, Kyoto University

Episode #20 Mental Time Travel, Metacognition and Metaphorical Mapping- Coverage of the 74th Annual Congress of the Japan Society for Animal Psychology, The PrimateCast, CICASP, Kyoto University

Episode #19 An Interview with Dr. Miho Inoue-Murayama, The PrimateCast, CICASP, Kyoto University

Primate Research Institute's Conserv'Session: Documentary Viewings and Discussions
Co-founder and Facilitator 2014- August 2016

SKILLS

Languages

English- native

Spanish- native

Japanese- elementary proficiency

Technological Skills

Statistical Software

R version 3.2.2, ggplot2.2.1.0, Minitab

Audio Editing and Production

Logic Pro, Audacity

Acoustic Analysis

Avisoft SASLab Pro

Graphic Design and Layout

Inkscape 0.91

Word Processing

Microsoft Office 2010
