

Katherine Brooks
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Appointments

Columbia University

Columbia Science Fellow July 2014- present
Department of Ecology, Evolution and Environmental Biology

Education

The University of Chicago

Ph.D., Committee on Evolutionary Biology June 2014
Sc.M., Committee on Evolutionary Biology 2010
A.B., Anthropology, General Honors 2004

Fellowships

Graduate Assistance in Areas of National Need (GAANN) Fellowship 2009 – 2011
The Field Museum, Anthropology Department, Regenstein Fellowship 2004
The University of Chicago and the Field Museum, Metcalf Fellowship 2003

Awards and Honors

American Society for Mammalogists Elizabeth Horner Award 2010
Best graduate student Grant-In-Aid of Research proposal
Elected a member of Sigma Xi 2010

Research Funding

NSF, Doctoral Dissertation Improvement Grant (\$14,801) 2012
Animal Behavior Society, Student Research Grant (\$1500) 2012
The University of Chicago, Hinds Fund Student Research Grant (\$1500) 2012
American Society of Mammalogists, Grant-in Aid of Research (\$1500) 2011
The University of Chicago, Hinds Fund Student Research Grant (\$1900) 2011
American Museum of Natural History, Roosevelt Memorial Grant, (\$1998) 2011
Sigma Xi, Grant-in-Aid of Research (\$400) 2010
American Society of Mammalogists, Grant-in Aid of Research, (\$1460) 2010

Valentine Eastern Sierra Reserve, Graduate Student Grant (\$500)	2010
The University of Chicago, Hinds Fund Student Research Grant (\$1000)	2010
Valentine Eastern Sierra Reserve, Graduate Student Grant (\$1000)	2009

Research Interests

Sociality, cooperation, kin selection, social evolution, predation risk, immune function, stress, hormonal mechanisms, phylogenetic comparative methods

Publications

Dosmann, AJ, **KC Brooks** & JM Mateo (2015). Evidence for a mechanism of phenotypic integration of behavior and innate immunity in a wild rodent: implications for animal personality and ecological immunology. *Animal Behavior* (101) 179-189.

Brooks, KC & JM Mateo (2013). Chronically raised glucocorticoids reduce innate immune function in Belding's ground squirrels (*Urocitellus beldingi*) after an immune challenge. *General and Comparative Endocrinology* (193) 146-157.

Teaching Experience and Training

Lecturer Positions

Frontier of Science <i>Led two seminar sections of 22 students each</i> <i>Developed course-wide curriculum and assessments</i>	2014-present
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Pedagogical Training

Certificate in University Teaching <i>Pedagogical training through courses and workshops</i>	2014
Student, Teaching Assistant Training Course <i>Learned pedagogical techniques for teaching assistants</i>	2009

Teaching Assistant Positions

Environmental Ecology <i>Led a lab section of 18 students, led review sessions, graded exams and assignments,</i>	2014
Ecology and Evolution in the Southwest Field School <i>17 day field course in the American Southwest, 10 students</i>	2013
Ecology and Evolution in the Southwest <i>Led two discussion sections for groups of 12 students</i>	2013
Ecology and Conservation <i>Led review sessions, graded exams, assisted with field trips and labs, 17 students</i>	2011

Animal Behavior 2011
Led review sessions, graded exams and written assignments, 90 students

Human Physiology and Anatomy 2003
Graded exams, assisted with labs, 25 students

Guest Lectures

Research Methods in Behavior and Development 2013
Lecture on using the statistical program R

Kinship and Social Systems 2013
Lecture on parental care

Animal Behavior 2011
Lecture on kinship and social systems

Conference Presentations

Brooks, K. *Stepwise evolution of social complexity in ground-dwelling squirrels.* Oral presentation, Evolution meeting, June 2014, Raleigh, NC.

Brooks, K. and J.M. Mateo. *The evolutionary history of sociality in the Marmotini.* Poster presentation, Animal Behavior Society meeting, July 2013, Boulder, CO.

Brooks, K. and J.M. Mateo. *The social environment and its effect on predation risk, physiology and fitness in Belding's ground squirrels.* Oral presentation, American Society of Mammalogists meeting, June 2012, Reno, NV.

Brooks, K. and J.M. Mateo. *Group living reduces predation risk in Belding's ground squirrels.* Oral presentation, Animal Behavior Society meeting, July 2011, Bloomington, IN.

Brooks, K. and J.M. Mateo. *Predation risk and the evolution of sociality in Belding's ground squirrels.* Poster presentation, The International Society for Behavioral Ecology Congress, September 2010, Perth, Australia.

Service and Outreach

Graduate Women in Science Eta Chapter Founder and Secretary 2013-2014

Museum of Science and Industry (Science Works: Cool Jobs, Hot Careers) 2013

Langston Hughes Middle School, Science Club volunteer 2013

Young Women's Leadership Charter School, 10th Grade Presentation Judge 2013

Project Exploration Sisters for Science program, 5th and 6th grade Volunteer 2012

The Field Museum, Featured scientist on the Pritzker Lab's Facebook page 2012

Chicago High School for Agricultural Sciences, Science Fair Judge 2011

Young Women's Leadership Charter School, Career Day Panelist	2011
Young Women's Leadership Charter School, Writing Workshop Volunteer	2010
Young Women's Leadership Charter School, Career Day Panelist	2010
The University of Chicago, Darwinian Sciences Cluster Retreat Organizer	2010
The University of Chicago, Animal Behavior Seminar Coordinator	2009 – 2010
American Association for the Advancement of Science meeting, Volunteer	2009
Young Women's Leadership Charter School, Science Project Volunteer	2009
The Field Museum, Chicago Public Schools Tour Guide	2004 – 2006
The Field Museum, Member's Night Volunteer	2004 – 2006

Professional Affiliations

Animal Behavior Society
 American Society of Mammalogists
 International Society for Behavioral Ecology
 Society of Systematic Biologists
 Sigma Xi
 Graduate Women in Science