K. Supriya

Postdoctoral Research Associate, School of life sciences, Arizona State University

E-mail: ksupriya@uchicago.edu; supriyaknair@gmail.com
Cell phone: +1- 312-259-3392
Website: https://ksupriya.weebly.com/

EDUCATION

Ph.D. Evolutionary Biology, University of Chicago 2019

- Advisors: Dr. Trevor Price, Dr. Corrie Moreau
- Dissertation title: Effect of ants on bird species diversity pattern along an elevational gradient in the eastern Himalaya.

M.Sc. Wildlife Science, Wildlife Institute of India 2011

- Advisors: Dr. Karthikeyan Vasudevan, Dr. Dhananjai Mohan
- Thesis title: Behavioral ecology of colony formation and function of colonial breeding in Chestnut-headed bee-eater.

B.Sc (H) Zoology, Hindu College, Delhi University 2009

RESEARCH EXPERIENCE

Arizona State University, Post-doctoral Research Associate 2019- present

- Working on assessing bias in instructor exams using differential item functioning (DIF) analyses.
- Studying the effect of retaking exams on student learning and what shapes student decision to retake an exam when given the opportunity.

University of Chicago, Graduate Researcher 2013-2019

- Examined competition for insect prey between weaver ants and birds through experiments and molecular diet analysis.
- Conducted a nest box study to assess the impact of ants on bird breeding
- Sampled ants and birds along an elevational gradient in eastern Himalaya from 200m to 4100m elevation.

Wildlife Institute of India, Project Biologist 2012-2013

- Collected and measured sperm from songbirds at various sites in Kashmir
- Studied the evolution of sperm length in the Old-world leaf warblers.

Wildlife Institute of India, Graduate Researcher 2009-2011

- Examined nest survival of chestnut-headed bee-eaters nesting solitarily and in small colonies
- Assessed area available for nesting to bee-eaters to test if there is shortage of nesting space.

Delhi University, Undergraduate Researcher 2005-2009

- Carried out behavioral observations on colonies of a wasp species as part of a study on the mechanism by which queens maintain their status
- Conducted a questionnaire survey based study on use of dissections of wild-caught frogs in colleges and its potential impacts.

PUBLICATIONS

Supriya, K., Moreau, C., Sam, K., Price, T. 2019 Global analysis of elevational gradients in arthropod abundance. *Frontiers of biogeography.* 11(2), e43104

Schumm, M., Edie, S.M., Collins, K.S., Gómez-Bahamón, V., **Supriya, K.**, White, A.E., Price, T.D. and Jablonski, D., 2019. Common latitudinal gradients in functional richness and functional

evenness across marine and terrestrial systems. *Proceedings of the Royal Society B*. 286(1908), p.20190745.

Supriya, K., Rowe, M., Price, T. Trade-offs between pre-copulatory and post-copulatory investment generate positive correlations across species. *Behavioral Ecology*. 30(2), 341-347

Supriya, K., Price, T. D., & Rowe, M. 2018 Positive correlations between pre-and post-copulatory sexual traits in warblers. *Journal of Avian Biology*. 49(5), jav-01694

Supriya, K., Rowe, M., Laskemoen, T., Mohan, D., Price, T., Lifjeld, J. 2016 Early diversification of sperm size in the evolutionary history of the Old World leaf warblers (Phylloscopidae). *Journal of Evolutionary Biology*. 29(4), 777-8

Tomašových, A., Kennedy, J.D., Betzner, T.J., Kuehnle, N.B., Edie, S., Kim, S., **Supriya, K.,** White, A.E., Rahbek, C., Huang, S. and Price, T.D. 2016. Unifying latitudinal gradients in range size and richness across marine and terrestrial systems. *Proc. R. Soc. B* 283(1830) 20153027

Supriya, K., Mohan, D., Vasudevan, K. 2012. Availability of nesting habitat may not drive colony formation in Chestnut-headed bee-eaters *Merops leschenaulti* in Southern India. *Journal of Bombay Natural History Society* 109(1&2), 30-36.

Saha,P., Balasubramaniam,K.N., Kalyani, J.N., **Supriya, K.,** Padmanabhan, A. & Gadagkar, R. 2012. Clinging to royalty: Ropalidia marginata queens can employ both pheromone and aggression. *Insectes sociaux* 59(1), 41-44.

Vasudevan, K. & **Supriya, K.** 2011. Utilization of wild caught animals in education: a case of rampant vivisections in India. *Current Science* 100(6), 818-821.

TEACHING EXPERIENCE

Fellow, Chicago Center for Teaching 2018-19

- I participated in training sessions to learn about current theories and debates in teaching and learning.
- I conducted pedagogy workshops for other graduate students in biological sciences division and developed resources related to inclusive teaching.

Co-facilitator, Inclusive teaching in STEM workshop, University of Chicago 2018

- I developed and co-facilitated a workshop on inclusive teaching with another graduate student for about 30 graduate and post-doc instructors at the university.

Teaching assistantship, Environmental Ecology 2016

- Led weekly discussion sections that incorporated many active learning methods
- Conducted mid-term and annual review sessions, held office hours and graded exams

Teaching assistantship, Public and Private lives of Insects 2014

- Planned and gave two interactive lectures using many active learning tools
- Held office hours, wrote quiz questions and graded exams

OUTREACH AND MENTORSHIP EXPERIENCE

Co-director, Expanding your Horizons-Chicago 2015-present

- A day-long conference with STEM workshops for middle-school girls

Featured in "Conversations for science" 2018

- A web series on science and STEM outreach non-profits in Chicago area produced by United Sciences of Chicago.

Soapbox Science, Chicago 2018

- A public outreach platform promoting women in science and their research.

Mentor, University of Chicago 2014-17

- Mentored nine Indian undergraduate and masters' students including three women, by involving them as my field assistants or volunteers during fieldwork

Workshop subcommittee head, Expanding your Horizons-Chicago 2013-15

- A day-long conference with STEM workshops for middle-school girls

Researcher, University of Chicago 2015

- Conducted activities in the evenings for children in Panijhora forest village to help them improve English communication skills.

FELLOWSHIPS and GRANTS

Faculty for the Future Fellowship, Schlumberger Foundation 2017-present
Field Museum of Natural History, Women in Science graduate fellowship 2016-17
Rufford Small Grant, Rufford Foundation 2016
Steiner travel award, Biological Science Division, University of Chicago 2016
Graduate Collaboration Grant, Art, Science and Culture Initiative, University of Chicago 2015
Young Explorers Grant, National Geographic Society 2014
Henry Hinds Fund for Graduate Student Research in Evolutionary Biology 2014 & 2016
Committee on Evolutionary Biology, University of Chicago
M.Sc. Fellowship, Wildlife Institute of India 2009-11
Summer Research Fellowship, Jawaharlal Nehru Centre for Advanced Scientific Research 2007

AWARDS and HONORS

Second place in Student talk competition, Entomology, Vancouver 2018
Best student talk, India Biogeography Society meeting, Bengaluru 2017
Best talk, Annual Research Symposium, Wildlife Institute of India, Dehradun 2012

CONFERENCE PRESENTATIONS

Supriya, K., Moreau, C., Price, T. Competition with Asian weaver ants reduces songbird diversity at low elevations in eastern Himalaya. Entomology, Vancouver. (2018)

Supriya, K., Moreau, C., Price, T. Effect of ants on bird species diversity pattern along an elevational gradient in eastern Himalaya. Evolution, Montpellier. (2018)

Supriya, K., Moreau, C., Price, T. 2017 Competition between birds and ants for nesting cavities in eastern Himalayas. India Biogeography Society meeting, Bengaluru. (2017)

Supriya, K., Moreau, C., Price, T. 2017 Competition between birds and ants for nesting cavities in eastern Himalayas. American Ornithological Society, East Lansing (2017)

Supriya, K. Competition between birds and ants in eastern Himalayas. International Conference on Entomology, Orlando. (2016)

Supriya, K. Top-down and bottom-up effects as causes of the mid-elevational peak in Eastern Himalayan arthropod abundance. Ecological Society of America meeting, Baltimore. (2015)

Supriya, K., Rowe, M., Laskemoen, T., Mohan, D., Price, T., Lifjeld, J. Correlated evolution of sperm and song in Old World warblers. American Society of Naturalists meeting, Asilomar. (2014)

Supriya, K., Rowe, M., Laskemoen, T., Mohan, D., Price, T., Lifjeld, J. Relationship between phylogenetic divergence and divergence in sperm morphology. Young Ecologists Talk and Interact, Dehradun. (2012)

Supriya, K., Mohan, D., Vasudevan, K. Colony formation and function of colonial breeding in chestnut-headed bee-eater poster Student Conference on Conservation science, Bengaluru (2011)

SERVICE

Peer-reviewer, Evolution & Journal of Animal Ecology	2018
Peer-reviewer, Frontiers of Zoology	2015

PROFESSIONAL MEMBERSHIPS

American Society of Naturalists	2013-present
American Ornithological Society	2015- present
International Union of Study of Social Insects, North American Section	2016- present