

Sahas Barve PhD

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PROFESSIONAL APPOINTMENTS

Peter Buck Fellow, National Museum of Natural History
Postdoctoral Associate, Old Dominion University

October 2019-2021
March 2017 - September 2019

EDUCATION

Certificate: Teaching and Learning in a Diverse Classroom CornellX (TLDC101x) 2020
Ph.D. (Ecology and Evolutionary Biology), Cornell University, 2017
Master of Science (Wildlife Sciences), Wildlife Institute of India 2009
Bachelor of Science (Zoology), Mumbai University 2007

PUBLICATIONS

Scientific Publications [Google Scholar](#)

27. Shizuka D., **Barve S.**, Johnson A, Walters E. L. (In review, *Methods in Ecology and Evolution Preprint*) Workflow for constructing social networks from automated telemetry systems.
26. **Barve S.**, Riehl C., Walters E.L., Haydock J., Dugdale H.L., Koenig W.D. (In review *Nature Communications*), Cooperative polyandry is a reproductive alternative, not a reproductive compromise, in a social bird.
25. Thompson C.L., Alberti M., **Barve S.**, Battistuzzi F.U., Drake J.L., Govaert L., Partridge C., Yang Y. (In revision *Integrative and Comparative Biology*), Back to the future: Reintegrating biology to understand how past eco-evolutionary change can predict future outcomes
24. **Barve S.**, Ramesh V., Dotterer T.M., Dove C.D. (In revision *Ecography*), Elevation, evolutionary origin, and body size drive variation in thermo-insulative feather structure of Himalayan birds.
23. **Barve S.**, Lahey A.S., Brunner R.M., Koenig W.D., Walters E.L. 2020 Woodpecker wars: Tracking soldiers and spectators with telemetry. *Current Biology* 30: R982-R983 * Chosen as cover article
22. **Barve S.**, Shankar Raman T. R., Jathar G., Datta A. 2020. Guidelines for conducting research on nesting biology of Indian birds. *Indian Birds* 16: 10-11 # *Invited manuscript*
21. **Barve S.**, Shankar Raman T. R., Jathar G., Datta A. 2020. When and how to study nesting biology of Indian birds: research needs, ethical considerations, and best practices. *Indian Birds* 16:1-9 # *Invited manuscript*
20. **Barve S.**, Hagemeyer N., Winter R., Chamberlain S., Koenig W., Winkler D., Walters E. 2020. Wandering woodpeckers: foray behavior in a social bird. *Ecology* 101: e02943
19. Koenig W., Walters E., **Barve S.** 2019. Does helping-at-the-nest help? The case of the acorn woodpecker. *Frontiers of Ecology and Evolution* 7:272
18. **Barve S.**, Koenig W., Haydock J., Walters E. 2019. Habitat saturation results in joint-nesting female coalitions in a social bird. *American Naturalist* 193:830-840
17. Ishtiaq, F., **Barve S.** 2018. Do avian blood parasites influence hypoxia physiology in a high elevation environment? *BMC Ecology* 18:15
16. **Barve S.**, Dixit S., Dhondt A., Ishtiaq F. 2017. Sexual dimorphism in breast stripe width and beak eco-morphology in Himalayan green-backed tits (*Parus monticolus*). *Avian Biology Research* 10:259-263

15. **Barve S.**, Dhondt A. 2017. Elevational replacement of two Himalayan titmice: interspecific competition or habitat preference? *Journal of Avian Biology* 48:1189-1194 * Chosen as cover article
14. Ramesh V., Gopalkrishna T., **Barve S.**, Melnick D. 2017. Finer spatial resolution improves accuracy of species distribution models in heterogeneous landscapes - a response to Praveen J. *Biological Conservation* 213:247-248 # Student mentee lead-author
13. Heaton-Crisologo T., Joshi V., **Barve S.** 2017. Jack of all calls and master of few: vocal mimicry in the tawny lark (*Galerida deva*). *Avian Biology Research* 10:174-180 # Student mentee lead-author
12. Ramesh V., Gopalkrishna T., **Barve S.**, Melnick D. 2017. IUCN greatly underestimates threat levels of endemic birds in the Western Ghats. *Biological Conservation* 210:205-221 # Student mentee lead-author
11. **Barve S.**, Mathur V., Dhondt A., Ishtiaq F., Cheviron Z. 2016. Life-history characteristics influence physiological strategies to cope with hypoxia in Himalayan birds. *Proceedings of the Royal Society-B* 283:2016.2201
10. **Barve S.**, La Sorte F. 2016. Fruiting season length drives the global distribution of female-only parental care in frugivorous passerines. *PLoS ONE* 11:e0154871
9. Dixit S., Joshi V., **Barve S.** 2016. Bird diversity of the Amrutganga valley, Kedarnath, Uttarakhand, India with an emphasis on the elevational distribution of species. *Checklist* 12:1874 # Student mentee lead-author
8. **Barve S.**, Dhondt A. 2015. A yellow-browed tit (*Sylviparus modestus*) nest from Kedarnath Wildlife Sanctuary, Uttarakhand, India. *Indian Birds* (3&4):110-111
7. **Barve S.***, Mason N.* 2015. Interspecific competition affects evolutionary links between cavity nesting, migration and clutch size in Old World flycatchers (*Muscicapidae*). *Ibis* 157:299-311 (* Denotes equal contributions)
6. Fry B., Hendrikx I., Rowley P., Jackson T., van der Ploeg H., Johnson R., Sasa M., Dunstan N., **Barve S.**, Lock B., Phillip T., Zivkovic M., Wiley K., Harrison J., Carmichael R., Morris C., Brandl D., Shankar G., McCarthy S., Sunagar K., Pittman J., Cochran C. 2015. Maintaining venomous animal collections: protocols and occupational safety. *Venomous Reptiles And Their Toxins: Evolution, Pathophysiology And Biodiscovery* pp 89-133. Oxford University Press.
5. **Barve S.**, Bhaisare D., Giri A., Gowrishankar P., Whitaker R., Goode M. 2013. A preliminary study on translocation of rescued king cobras (*Ophiophagus hannah*). *Hamadryad*, 36:80-86
4. **Barve S.**, Warriar R. 2013. Birds of the Sharavathy landscape. *Indian Birds* 8:57-61
3. Muralidhar A., **Barve S.** 2013. Peculiar choice of nesting site in Red wattled lapwing (*Vanellus indicus*) in an urban site. *Indian Birds* 8:6-9 # Student mentee lead-author
2. **Barve S.** 2010. Sri Lanka Frogmouths of Kogar, filling in the gaps. *Indian Birds* 5:179
1. **Barve S.**, Mohan D., Qureshi Q. 2009. Responses shown by bird communities to teak plantations and surrounding natural forests in Sagar Forest Division, Karnataka, India. Masters thesis submitted to the Wildlife Institute of India.

Popular Publications

Barve S. 2020. Himalayan birds: Balancing elevation and weather. Sanctuary Asia (October). [Link](#)

Barve S. and other contributors. 2020. Fifty things we have learnt about the Earth since the first Earth day. Smithsonian Magazine. [Link](#)

- Barve S.**, Hagemeyer N., Winter R., Chamberlain S., Koenig W., Winkler D., Walters E. 2020. Wandering woodpeckers: foray behavior in a social bird. *Bulletin of Ecological Society of America* [Link](#)
- Barve S.** 2017. Immortal flatulence. www.scienceoutside.com [Link](#)
- Barve S.** 2015. A drop of blood, a sea of information. *Deccan Herald Spectrum*. [Link](#)
- Barve S.** 2015. Banded Tickells Thrush, Uttarakhand. www.conservationindia.org [Link](#)
- Barve S.** 2014. The Eurasian Woodcock, Kedarnath, Uttarakhand. www.conservationindia.org [Link](#)
- Barve S.** 2014. The Shola Sky-lands. *Saevus* 37:22-27
- Barve S.** 2014. Snake Translocation: New information, new insights. *Nature Kaleidoscope*, *Bulletin of the Wildlife Institute of India*. [Link](#)
- Barve S.** 2013. Translocation tragedies: are we really rescuing snakes? www.conservationindia.org [Link](#)
- Barve S.** 2009. The Fox, Outfoxed. *Hornbill*, July-September:4-8

RESEARCH GRANTS

National Geographic Society Early Career Grant (2020)	<i>\$9,101</i>
National Science Foundation Collaborative Research Grant (2019) Evolution of cooperation in social woodpeckers (supplement)	<i>\$82,077</i>
American Ornithological Society Conference Travel Grant (2017)	<i>\$250</i>
Cornell University Conference Travel Grant (2016)	<i>\$350</i>
American Ornithologists Union Conference Travel Award (2016)	<i>\$100</i>
Explorer's Club Exploration Fund (2015)	<i>\$1,000</i>
Athena Fund (2015)	<i>\$5,000</i>
Cornell Graduate School Conference Travel Grant (2014)	<i>\$360</i>
Athena Fund (2013)	<i>\$5,000</i>
Cornell Graduate School Research Travel Grant (2013)	<i>\$1,930</i>
Sigma-Xi Grants-in-Aid-of-Research Award (2013)	<i>\$700</i>
Sigma-Xi (Cornell Chapter) Research Award (2013)	<i>\$600</i>
Athena Fund (2012)	<i>\$6,000</i>
Atkinson Centre Sustainable Biodiversity Fund (2012)	<i>\$5,000</i>
Paul Feeny Fund (2012)	<i>\$810</i>
Athena Fund (2011)	<i>\$1,800</i>

AWARDS AND FELLOWSHIPS

Peter Buck Postdoctoral Fellowship , Smithsonian Institution	<i>2019-2021</i>
Natural History Section Student Award , Ecological Society of America Conference	<i>2016</i>
Alexander Wilson Prize for Best Paper , North American Ornithological Conference	<i>2016</i>
Linda and Samuel Kramer Graduate Student Fellowship , Cornell University	<i>2016</i>

Overall First Prize , Harry W. Greene Grilled Cheese Contest, Cornell University	<i>2016</i>
Finalist , Cornell University 3 Minute Thesis Competition	<i>2016</i>
James F. Slevin Assignment Sequence Prize , Knight Institute, Cornell University	<i>2016</i>
Early Career Ecologist Mentorship Program , Ecological Society of America	<i>2016</i>
Johnson Graduate Fellowship for Teaching and Research , Cornell University	<i>2015</i>
Halberstad and Mary Hartshorne Endowment Fellowship , Cornell University	<i>2015</i>
Cornell Lab of Ornithology Research Fellowship , Cornell University	<i>2014-2015</i>
Cornell University Fellowship , Cornell University	<i>2011-2012</i>
Graduate Fellowship , Wildlife Institute of India	<i>2007-2009</i>

SELECTED INVITED TALKS AND SEMINARS

Washington D.C. Audubon Society Monthly Seminar Series , Virtual Seminar	<i>2020</i>
Weekly Seminar Series , Nature Conservation Foundation Mysuru, India	<i>2020</i>
Lightening Talk , Smithsonian Senate of Scientists Washington, DC	<i>2020</i>
Earth Day Lecture , SPROUTS (NGO) Link Mumbai, India	<i>2020</i>
Integrative Research in Behavior Group , Princeton University Princeton, NJ	<i>2020</i>
Cape Henry Audubon Society Monthly Seminar Series , Norfolk, VA	<i>2019</i>
Old Dominion University Biological Sciences Seminar , Norfolk, VA	<i>2019</i>
Monterey Audubon Society Monthly Seminar Series , Monterey, CA	<i>2018</i>
National Museum of Natural History Vertebrate Zoology Seminar , Washington, DC	<i>2018</i>
Smithsonian Conservation Biology Institute Rock Creek Seminar Series , Washington, DC	<i>2018</i>
Cal Poly Biological Sciences Seminar , San Louis Obispo, CA	<i>2017</i>
Darwins Weekly Natural History Seminar Series , University of Chicago, Chicago, IL	<i>2016</i>
Graduate Seminar in Ornithology , Cornell University, Ithaca, NY	<i>2016</i>
Cornell Lab of Ornithology Monday Night Seminar Series , Cornell Lab of Ornithology, Ithaca, NY	<i>2016</i>
Bioscience Seminar Series , University of Cape Town, Cape Town, South Africa	<i>2015</i>
Guest Lecture , Wildlife Institute of India PhD program, Wildlife Institute of India, Dehradun, India	<i>2015</i>
National Centre for Biological Sciences Seminar , Bengaluru, India	<i>2014</i>
Centre for Ecological Sciences Seminar , Indian Institute of Science, Bengaluru, India	<i>2014</i>
Cayuga bird club Monday Night Seminar series , Ithaca, NY	<i>2012</i>

SELECTED CONFERENCE PRESENTATIONS

North American Ornithology Conference, Virtual <i>Invited symposium seminar</i>	2020
American Ornithological Society Conference, Anchorage, AL <i>Invited symposium seminar</i>	2019
American Ornithological Society Conference, Tuscon, AZ	2018
American Society of Naturalists Meeting, Asilomar, CA	2018
American Ornithological Society, East Lansing, MI	2017
North American Ornithological Conference, Washington, DC <i>*Alexander Wilson Best Student Paper Award</i>	2016
Ecological Society of America Conference, Fort Lauderdale, FL <i>* Best paper in Natural History Section Award</i>	2016
Uttarakhand State Birding Festival, Pawalgarh, Uttrakhand, India	2015
Society for the Study of Evolution Conference, Raleigh, NC	2014
Department of Ecology and Evolutionary Biology Graduate Symposium, Cornell University, Ithaca, NY	2013
Department of Ecology and Evolutionary Biology Graduate Symposium, Cornell University, Ithaca, NY	2011

TEACHING EXPERIENCE

Guest Faculty, SPROUTS (India), Online Ornithology Course Link Attended by over 75 citizen scientists	2020
Instructor, (Skype a Scientist) Online interactive classrooms for grade school students on evolutionary biology	2020
Lead Instructor, (Cornell University) Ecology and Evolution on Islands, Freshman Writing Seminar (BIOEE 1640)	Fall 2015
Teaching Assistant, (Cornell University)	2012-2016
Courses: Ecology and the Environment (Head TA, BIOEE 1610), Introduction to Conservation Biology (Head TA, BIOEE 2670), Introduction to Evolutionary Biology and Diversity (Head TA, BIOEE 1780) and Tropical Field Ornithology (BIOEE 2460)	
Guest Faculty, SPROUTS, Mumbai Lecture Series	2015
Guest Faculty, Wildlife Institute of India	2013, 2014

Academic Mentoring I have mentored 18 undergraduate and 7 graduate students from five countries. Selected students and mentoring experience below 2010-2019

Student	Academic Institution	Degree	Year
Martin Burmeister	University of Applied Sciences, Germany.	Undergraduate thesis	2010-2011
Vijay Ramesh	Columbia University, United States	PhD thesis	2014-Present
Soham Dixit	University of Bonn, Germany	Master's thesis	2015-Present
Taylor Crisologo	Cornell University, United States	Undergraduate thesis	2015-2016
Anisha Jayadevan	National Centre for Biological Sciences, India	Master's internship	2015
Manon Munoz	University of Tours, France	Undergraduate thesis	2015
Russell Winter	Old Dominion University, Unites States	PhD Thesis	2018-Present
Toni Dotterer	National Museum of Natural History, United states	Internship	2017-Present
Ally Lahey	Old Dominion University, United states	PhD Thesis	2020-Present
Samantha Rutledge	National Museum of Natural History, United states	Virtual internship	2020-Present

OTHER PROFESSIONAL EXPERIENCE

	<i>Research taxon</i>
Junior Research Fellow , National Centre for Biological Sciences, India 2011	<i>birds</i>
Project Leader , Draco Trust, India 2010-2011	<i>snakes</i>
Researcher , Aaranyak, India 2010	<i>large mammals</i>
Researcher , Tiger Watch, India 2007	<i>small carnivores</i>

SELECTED OUTREACH ACTIVITIES

Story-telling , NAOC 2020 story-telling event. I told a story about my experiences speaking English as an immigrant in the USA Link	<i>2020</i>
Expert , Smithsonian National Museum of Natural History #NatureNerding 101 Outreach Series 2020 Developed the Birding 101 and #SpeakBird mini-series for Twitter, Facebook and Instagram. The campaign generated 52,504 likes/comments/shares and reached over 0.7 million users.	<i>2020</i>
Expert Scientist , Smithsonian Science How, Live Webinar Participation by more than 500 students	<i>2020</i>
Expert Scientist , Smithsonian Science How, Educational Webcast Link Participation by more than 2800 elementary school students	<i>2020</i>
Avian Biology Expert , National Museum of Natural History: The Expert Is In and Volunteer Enrichment Programs	<i>2020</i>
Avian Biology Expert , National Museum of Natural History: Instagram Take-over Content viewed by over 129000 unique users and generated 8900 likes	<i>2020</i>
Expert Interview , The County, Naturally, Radio Talk Show 93.9 County FM	<i>2019</i>
Founder, moderator and editor , www.scienceoutside.com Link	<i>2017-Present</i>
Consultant , BBC Wonders of India series	<i>2016</i>
Expert , Career with Birds, video interview, Cornell Lab of Ornithology Link	<i>2014</i>
Nature Guide , for over 10 not-for-profit-organizations in Mumbai, India	<i>2004-2007</i>

PROFESSIONAL ACTIVITIES AND COMMUNITY SERVICE

Reviewer, over 30 manuscripts reviewed (selected journals) American Naturalist, Auk, Avian Conservation and Ecology, Biotropica, Ecology, Ecology and Evolution, Evolutionary Applications, Frontiers in Ecology and Evolution, Global Ecology and Biogeography, Ibis, Journal of Avian Biology, Journal of Biogeography, Journal of Field Ornithology, Proceedings of the Royal Society B, Wilson Journal of Ornithology	
Editorial Board Member , <i>Indian BIRDS</i> , New Ornis Foundation	<i>2020-Present</i>
Member , Diversity and Inclusion Committee, American Ornithological Society	<i>2019-Present</i>
Member , Early Professionals Committee, American Ornithological Society	<i>2019-Present</i>
Selected Participant , Reintegrating Biology JumpStart (National Science Foundation initiative)	<i>2019</i>
Early Career Representative , Associate Director of Science Search Committee National Museum of Natural History	<i>2019</i>
Research Affiliate , Wildlife Institute of India	<i>2013-present</i>

Member , Wildlife Institute of India	<i>2013-present</i>
Section Editor , Checklist, the journal of biodiversity data	<i>2016-present</i>
Reviewer (Research Grant Panels) , Sigma Xi (Cornell Chapter)	<i>2016</i>
Rufford Small Grants for Nature Conservation	<i>2017</i>

SKILLS AND RESEARCH TECHNIQUES

Wilderness First Aid , (including CPR/AED and epinephrine treatment), Cornell Outdoor Education, Cornell University	<i>2016</i>
Building Academic Mentorship Skills Certificate Program , Cornell University	<i>2016</i>
Colman Leadership Program , Cornell University	<i>2016</i>

PROFESSIONAL SOCIETY MEMBERSHIPS

American Ornithological Society, American Society of Naturalists, Ecological Society of America, Society for Integrative & Comparative Biology, Society for the Study of Evolution, Sigma Xi