

# Sahas Barve PhD

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## PROFESSIONAL APPOINTMENTS

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

October 2019-2021  
March 2017 - September 2019

## EDUCATION

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Certificate: Teaching and Learning in a Diverse Classroom CornellX (TLDC101x) 2020  
PhD (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

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### Scientific Publications [Google Scholar](#)

29. 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.
28. **Barve S.**, Daniel Cadena, C. (In review, *Biotropica*) Hermits in a puffy jacket: Variation in insulative feather structure in songbirds along a tropical elevation gradient.
27. **Barve S.**, Riehl C., Walters E.L., Haydock J., Dugdale H.L., Koenig W.D. (In revision, *Proceedings of the Royal Society B*), Cooperative polyandry is a reproductive alternative, not a reproductive compromise, in a social bird.
26. **Barve S.**, Menon T., Ramesh V. (In review, *American Naturalist*), Thermal niche breadth and diet explain variation in elevational migration in Himalayan birds.
25. Thompson C.L., Alberti M., **Barve S.**, Battistuzzi F.U., Drake J.L., Govaert L., Partridge C., Yang Y. (Accepted *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. 2021. Elevation, evolutionary origin, and body size drive variation in thermo-insulative feather structure of Himalayan birds. *Ecography* 44: 680-689 [Link](#)
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 (*Opihiophagus 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](http://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](http://www.conservationindia.org) [Link](#)
- Barve S.** 2014. The Eurasian Woodcock, Kedarnath, Uttarakhand. [www.conservationindia.org](http://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](http://www.conservationindia.org) [Link](#)
- Barve S.** 2009. The Fox, Outfoxed. *Hornbill*, July-September:4-8

## RESEARCH GRANTS

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

## TEACHING EXPERIENCE

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### Guest Faculty

George Mason University, Introduction to Animal Behavior (BIOL 472)	2020
Ithaca College, Introduction to Avian Biology	2020
SPROUTS (India), Online Ornithology Course <a href="#">Link</a>	2020
SPROUTS, Mumbai Lecture Series	2015
Wildlife Institute of India	2013, 2014

### Instructor

Skype a Scientist-  
Interactive classrooms for grade school students on evolutionary biology 2020-present

Cornell University-  
Ecology and Evolution on Islands, Freshman Writing Seminar (BIOEE 1640) Fall 2015

### Teaching Assistant 2012-2016

**Cornell University 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)

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

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
Samantha Rutledge	National Museum of Natural History, United states	Virtual internship	2020-Present

## SELECTED INVITED TALKS AND SEMINARS

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Maricopa Audubon Society Arizona, United States Virtual Seminar	2021
University of Louisville Louisville, KY Virtual Seminar	2021
Ram Narain Ruia College Mumbai, India Virtual Seminar	2021
Center for Macroecology, Evolution and Climate Copenhagen, Denmark Virtual Seminar	2021
Northern Virginia Bird Club Monthly Speaker Series Virtual Seminar	2021
Smithsonian National Museum of Natural History, Science Cafe Virtual Seminar	2021
Santa Clara Valley Audubon Society Monthly Speaker Series Virtual Seminar	2021
Audubon Society of Northern Virginia Audubon Afternoon Virtual Seminar	2021
Washington D.C. Audubon Society Monthly Seminar Series Virtual Seminar	2020
Nature Conservation Foundation Weekly Seminar Series, Mysuru, India	2020
Smithsonian Senate of Scientists Invited Lightening Talk, Washington, DC	2020
SPROUTS (NGO)Earth Day Lecture, <a href="#">Link</a> , Mumbai, India	2020
Princeton University Integrative Research in Behavior Group, Princeton, NJ	2020

<b>Cape Henry Audubon Society</b> Monthly Seminar Series, Norfolk, VA	2019
<b>Old Dominion University</b> Biological Sciences Seminar, Norfolk, VA	2019
<b>Monterey Audubon Society</b> Monthly Seminar Series, Monterey, CA	2018
<b>National Museum of Natural History</b> Vertebrate Zoology Seminar, Washington, DC	2018
<b>Smithsonian Conservation Biology Institute</b> Rock Creek Seminar Series, Washington, DC	2018
<b>Cal Poly</b> Biological Sciences Seminar, San Louis Obispo, CA	2017
<b>University of Chicago</b> Darwins Weekly Natural History Seminar Series, Chicago, IL	2016
<b>Cornell Lab of Ornithology</b> Monday Night Seminar Series, Ithaca, NY	2016
<b>University of Cape Town</b> , Biosciences Seminar, Cape Town, South Africa	2015
<b>Centre for Ecological Sciences</b> Invited seminar, Indian Institute of Science, Bengaluru, India	2014

### SELECTED CONFERENCE PRESENTATIONS

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<b>American Society of Naturalists Meeting</b> , Virtual	2021
<b>North American Ornithology Conference</b> , Virtual <i>Invited symposium seminar</i>	2020
<b>American Ornithological Society Conference</b> , Anchorage, AL <i>Invited symposium seminar</i>	2019
<b>American Ornithological Society Conference</b> , Tuscon, AZ	2018
<b>American Society of Naturalists Meeting</b> , Asilomar, CA	2018
<b>American Ornithological Society</b> , East Lansing, MI	2017
<b>North American Ornithological Conference</b> , Washington, DC <i>*Alexander Wilson Best Student Paper Award</i>	2016
<b>Ecological Society of America Conference</b> , Fort Lauderdale, FL <i>* Best paper in Natural History Section Award</i>	2016
<b>Uttarakhand State Birding Festival</b> , Pawalgarh, Uttrakhand, India	2015
<b>Society for the Study of Evolution Conference</b> , Raleigh, NC	2014

### OTHER PROFESSIONAL EXPERIENCE

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

### SELECTED OUTREACH ACTIVITIES

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<b>Outreach at the Smithsonian National Museum of Natural History</b>	
<b>Smithsonian Science How, Live Webinar</b> <a href="#">Link</a> Participation by more than 650 students	2021

<b>#NatureNerding101 Outreach Series</b>	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.	
<b>Smithsonian Science How, Live Webinar <a href="#">Link</a></b>	2020
Participation by more than 500 students	
<b>Smithsonian Science How, Educational Webcast <a href="#">Link</a></b>	2020
Participation by more than 2800 elementary school students	
<b>The Expert Is In, and Volunteer Enrichment Programs</b>	2020
<b>Instagram Take-over</b>	2020
Content viewed by over 129000 unique users and generated 8900 likes	

### Other outreach activities

<b>Story-telling</b> , NAOC 2020 story-telling event. I told a story about my experiences speaking English as an immigrant in the USA <a href="#">Link</a>	2020
<b>Expert Interview</b> , Afternoons on BBC Radio Berkshire	2021
<b>Expert Interview</b> , The County, Naturally, Radio Talk Show 93.9 County FM	2019
<b>Founder, moderator and editor</b> , <a href="http://www.scienceoutside.com">www.scienceoutside.com</a> <a href="#">Link</a>	2017-Present
<b>Consultant</b> , BBC Wonders of India series	2016
<b>Expert</b> , Career with Birds, video interview, Cornell Lab of Ornithology <a href="#">Link</a>	2014
<b>Nature Guide</b> , for over 10 not-for-profit-organizations in Mumbai, India	2004-2007

## SELECTED PROFESSIONAL ACTIVITIES AND COMMUNITY SERVICE

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<b>Reviewer, over 30 manuscripts reviewed (selected journals)</b> American Naturalist, Auk, Avian Conservation and Ecology, Biotropica, Current Zoology, Diversity and Distribution, Ecology, Ecology and Evolution, EMU-Austral Ornithology, 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	
<b>Diversity and Inclusion, and Accessibility Committee Representative</b> , American Ornithological Society Annual Conference (AOS-SCO 2021)	2021
<b>Editorial Board Member</b> , <i>Indian BIRDS</i> , New Ornis Foundation	2020-Present
<b>Member</b> , Diversity and Inclusion Committee, American Ornithological Society	2019-Present
<b>Member</b> , Early Professionals Committee, American Ornithological Society	2019-Present
<b>Selected Participant</b> , Reintegrating Biology JumpStart (National Science Foundation initiative)	2019
<b>Early Career Representative</b> , Chief Scientist Search Committee National Museum of Natural History	2019
<b>Research Affiliate</b> , Wildlife Institute of India	2013-present
<b>Section Editor</b> , Checklist, the journal of biodiversity data	2016-present

## SKILLS AND RESEARCH TECHNIQUES

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

**PROFESSIONAL SOCIETY MEMBERSHIPS**

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