

ANURADHA BATABYAL

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POSITIONS HELD

Postdoctoral Associate University of Calgary	2020-2022
National Postdoctoral Fellow Azim Premji University, Bengaluru, India	2018-2020
Guest Faculty Azim Premji University, Bengaluru, India	January-May 2019
Research Associate Centre for Ecological Sciences, Indian Institute of Science, Bengaluru, India	July 2017-July 2018

ACADEMIC QUALIFICATION

Ph.D Centre for Ecological Sciences, Indian Institute of Science, Bengaluru, India Thesis: <i>Urbanisation and shifting phenotypes: behavioural, physiological and cognitive strategies in the Indian rock agama Psammophilus dorsalis.</i>	2012-2017
M.Sc. in Zoology University of Pune, Pune, India Dissertation: <i>Determining sensitive stages for learning to detect predators in larval bronzed frogs: Importance of alarm cues in learning</i>	2012
B.Sc. Hons. (Zoology) University of Calcutta, Kolkata, India	2010

PUBLICATIONS

Batabyal A, Bhattacharya A, Thaker M. and Mukherjee S. A longitudinal study of perceived stress and cortisol responses in an undergraduate student population from India. bioRxiv 867184; doi: <https://doi.org/10.1101/867184> [Pre-print]

Batabyal A, Thaker M. 2019. Lizards learn faster to stay safe in urban areas. *Biology Letters*. 15: 20190009.

Batabyal A, Thaker M. 2018. Social coping styles of lizards are shifting from proactive to reactive in urban areas. *General and Comparative Endocrinology*. 270, 67-74.

(Popular press coverage by: *Mongabay* 2019)

Batabyal A, Thaker M. 2018. Lizards assess complex social signals by lateralizing colour but not motion detection. *Journal of Experimental Biology*. 221: jeb173252

Batabyal A., Thaker M. 2017. Signaling with physiological colours: high contrast for courtship but speed for competition. *Animal Behaviour* (129) 229–236.

(Popular press coverage by: *Livemint* 2017)

Curriculum Vitae

Batabyal A., Balakrishna S., and Thaker M. 2017. A multivariate approach to understanding shifts in escape strategies of urban lizards. *Behavioral Ecology Sociobiology* 71(5), 83.

(Popular press coverage by: *The Hindu* 2017)

Balakrishna S., **Batabyal A.**, and Thaker M. 2016. Dining in the city: Dietary shifts in Indian Rock Agamas across an urban – rural landscape. *Journal of Herpetology*. 50(3), 423–428.

Batabyal A., Gosavi SM., and Gramapurohit NP. 2014. Determining sensitive stages for learning to detect predators in larval bronzed frogs: Importance of alarm cues in learning. *Journal of Biosciences* (39), 701–710.

BOOK CHAPTERS

Batabyal A., Thaker M. 2018. “Compounding climate change with urbanisation: challenges and responses for species”. *Biodiversity and climate change: an Indian perspective*, (eds.) Bhatt JR, Das AA, Shanker K. New Delhi, India: Ministry of Environment, Forest and Climate Change, Government of India.

PUBLICATIONS IN PREPARATION

Batabyal A., Bhattacharya A and Mukherjee S. Best Practices for measuring stress in young adults. (*review article*)

REVIEWER

Behavioural Ecology Sociobiology

INVITED TALKS AND POSTERS

2017 Urbanisation and Shifting phenotypes. *Contributed poster at European Society for Evolutionary Biology. Groningen Netherlands, Europe.*

2016 Sex, survival and colour. *Invited talk at School in Herpetology. Indian Institute of Science. India*

2016 Urbanisation degrades social signaling in the rock agama *Psammophilus dorsalis*. *Contributed talk at India-Behaviour, Ecology, Evolution (I-BEE), India.*

2015 Urbanisation is causing stress and degrading social interaction in lizards too! *Contributed talk at International Ethological Conference, Australia.*

2015 Urban lizards run faster and have bolder escape strategies. *Contributed poster at International Ethological Conference, Australia.*

2015 Urban lizards run faster and have bolder escape strategies. *Contributed poster at Students' Conference on Conservation Science, India.*

WORKSHOPS AND MINI COURSES ATTENDED

2020 Developing Teaching Dossier at University of Calgary, Canada.

2020 Career Development at University of Calgary, Canada.

2020 Basics of Machine Learning, Coursera.

2019 Experiments in Neuroscience at Indian Institute of Science, India organized by Monsoon WEN.

2018 Google Earth engine workshop at National Centre for Biological Sciences, India.

2016 Short term workshop in molecular phylogenetic at Centre for Ecological Sciences, Indian Institute of Science, India.

2015 Field and Genome Science course (workshop) at Kyoto University, Japan.

TEACHING EXPERIENCE

Colours in Nature Open Course (Instructor for post graduate students), Azim Premji University, India (semester: January-May)2019.

Curriculum Vitae

Animal Perception Workshop (Instructor for high school students), Art-Science lab, Srishti Institute of Art, Design and Technology, India, 2018.

Learning and cognition, (Guest Lecture in PhD level Animal Behaviour course), Indian Institute of Science, 2018.

Experiments in Ecology, (Teaching Assistant for Undergraduate laboratory course), Indian Institute of Science. 2014.

FELLOWSHIPS AND HONORS

2019-2021: Government of India. INR 19,20,000

Title: *Intra and inter-specific variation in multimodal signalling across an environmental gradient in the genus Micrixalus*

2012-2017: National Research Fellowship by Government of India 2012. INR 16,08,000

RESEARCH AND TRAVEL GRANTS

Research grant for “A study on the effects of invasive *Prosopis juliflora* on *Saara hardwickii*” by RAMBLE Foundation 2013. (100,000 INR)

Travel grant for presenting in “Congress of European Society of Evolutionary Biology”, 2017. (1127 Euro)

PROFESSIONAL SERVICE

Judge for “Ecosystem and Ecosystem services” theme at National Children’s Science Congress, held at Kendriya Vidyalaya, IISc, India. (2018)

Student representative for Ecology Student Society, Indian Institute of Science, India (2013-2014).

Organizer for Annual Symposium at Centre for Ecological Sciences, Indian Institute of Science, India (2014 and 2017)

Member of European society for Evolutionary Biology

TECHNICAL EXPERTISE

R programming
PRISM
Octave
MEGA
Adobe photoshop
MS Office

EXTRACURRICULAR INTERESTS

Science and nature-based illustrations, Photography, Reading, Painting, Travelling

PERSONAL INFORMATION:

Nationality: Indian

Date of Birth: 30/11/1988
