Bishwarup Paul

Curriculum vitae

IISER Tirupati
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¹¹¹ https://bishwaruppaul.github.io/



Education

- 2013–2019 **Ph.D.**, *IISER Kolkata*.

 Integrated Ph.D. programme, Department of Biological Sciences
- 2011–2013 M.S., IISER Kolkata. Integrated Ph.D. programme, Department of Biological Sciences
- 2007–2010 B.Sc. (Hons.) in Microbiology. Ramakrishna Mission Vidyamandira, University of Calcutta

Research Experience

- 2019—present **Post-doctoral research**, Supervisor: Dr. Nandini Rajamani, IISER Tirupati.

 Behavioural Ecology of small mammals of India.
 - 2013–2019 **Ph.D. thesis**, Supervisor: Dr. Sumana Annagiri, IISER Kolkata. Facets of Brood Theft in a Tropical Ant Diacamma indicum
 - 2013 M.S. dissertation (2nd sem.), Supervisor: Dr. Sumana Annagiri, IISER Kolkata.
 Impact of Stress on Nest Relocation in Ants
 - 2012 M.S. dissertation (1st sem.), Supervisor: Dr. Sankar Maiti, IISER Kolkata.

 Characterization of the ACD domain of the VgrG-1 protein of Vibrio Cholerae
 - 2012 Summer internship, Supervisor: Dr. Sankar Maiti, IISER Kolkata.
 - 2009 **Project**, Supervisor: Santanu Maitra, Ramakrishna Mission Vidyamandira.

Tolerance of microorganisms collected from wastelands of Kolkata against nickel chloride

Publications

Published

- 1 Paul, B. & Annagiri, S. (2019). Caught red-handed: Behaviour of brood thieves in an Indian ant. *Journal of Experimental Biology*, 222, jeb193755.
- 2 Paul, B. & Annagiri, S. (2018). Tricks of the trade: Mechanism of brood theft in an ant. *PLoS ONE*, 13(2): e0192144.

- 3 Annagiri, S., Kolay, S., Paul, B. & Sona, C. (2017). Network approach to understanding the organization of and the consequence of targeted leader removal on an end-oriented task. *Current Zoology*, 63(3), 269-277.
- 4 Paul, B., Paul, M. & Annagiri, S. (2016). Opportunistic brood theft in the context of colony relocation in an Indian queenless ant. *Scientific Reports*, 6 (36166).

Unpublished

- 1 Paul, B. & Annagiri, S. Achieving a balance between brood rescue and nest relocation on facing an emergency. [Under review]
- 2 Mukherjee, I., Paul, B. & Annagiri, S. Does Information of Target Nest Impact Relocation Dynamics in an Indian Ant? [under review]
- 3 Aravind, P. S., Dhanesh, P., Paul, B., D'Souza, S. & Nandini, R. Commensalism advantages evidenced by anthropogenic nest materials and nesting in close proximity to humans in the three-striped palm squirrel [In preparation]
- 4 Paul, B., Murmu, S., & Annagiri, S. Reward reinforces formation of memory in ants rescuing brood. [In preparation]
- 5 Paul, B., Murmu, S., & Annagiri, S. Working and long term memory of nest location in the context of colony relocation in an ant. [In preparation]

Conferences & Workshops attended

- 2019 National Symposium on Avian Biology, IISER Tirupati, India.
- 2019 Understanding Behaviour, IISER Kolkata, India.
 Speed talk cum poster presentation: Achieving balance between two tasks at hand: Rescue versus relocation in an ant system
- 2018 ECBB (European Conference on Behavioural Biology), Liverpool, United Kingdom.
 - Poster presentation: Behaviour of brood thieves in an Indian ant
- 2018 **FIMB** (Frontiers in Modern Biology), IISER Kolkata, India. Poster presentation: Behaviour of brood thieves in an Indian ant
- International Conference on Zoological Sciences and Ants (11th ANeT), Punjabi University, India.
 Oral presentation: Mechanism of brood theft in an Indian ant
- 2017 First DST-SERB School on Chemical Ecology, NCBS, Bengaluru, India.
- 2017 YETI (Young Ecologists Talk and Interact), Tezpur University, India.
 - Poster presentation: Intraspecific brood theft in an Indian queenless ant
- 2016 Speciation and the Web of Life (GIAN), IISER Thiruvananthapuram, India.

- 2016 I-BEE (India Behaviour, Ecology & Evolution), Corbett National Park, India.
 - Oral presentation: Intraspecific brood theft in an Indian queenless ant
- 2015 **FIMB** (Frontiers in Modern Biology), IISER Kolkata, India.

 Poster presentation: Robbing thy Neighbour: A study in an Indian Queenless Ant
- 2015 NCEE (National Conference on Ethology and Evolution), 39th
 Annual Meeting of Ethological Society of India, IISER Mohali, India.
 Poster presentation: Robbing thy Neighbour: A study in an Indian Queenless Ant.
- 2014 **SERB School in Neuroscience**, 8th Edition (Brain Circuits), IISER Pune, India.
- 2013 **FIMB** (Frontiers in Modern Biology), IISER Kolkata, India.

 Poster presentation: Stealing the Young: A Case Study in the Indian Queenless Ant
- 2013 **Being Social**, IISc, India.
- 2012 FIMB (Frontiers in Modern Biology), IISER Kolkata, India.
- 2012 FIMB (Frontiers in Modern Biology), IISER Kolkata, India.
- 2011 Microbiology: Development and Challenges in Basic and Applied Research (UGC Sponsored Nantional Seminar), Ramakrishna Mission Vidyamandira, India.
- 2008 Microbiology: An Environmental Perspective (UGC Sponsored Nantional Seminar), Ramakrishna Mission Vidyamandira, India.

Academic activities

Peer review for journals

Insectes Sociaux.

Participation in events

- 2019 Basics of Working with R, Understanding Behaviour, IISER Kolkata. Conducted the workshop on how to use R for statistical analysis of data in Behavioural Ecology
- 2019 Understanding Behaviour, IISER Kolkata.

 Member of the organizing committee and a volunteer during the event
- 2017 Ambassadors of Evolution, ESEB (European Society for Evolutionary Biology) Outreach Initiative, IISER-Kolkata.

 Acted as a student volunteer for organizing the event

Teaching Assistantship

- 2018 Introduction to Biology II, Organismal Biology & Evolution, Integrated BS-MS 1^{st} Year, IISER Kolkata.
- 2016 **Biology laboratory X**, Animal behaviour, Integrated BS-MS 4th Year & Integrated Ph.D. 2nd Year, IISER Kolkata.
- 2016 **Biology laboratory VII**, Ecology and behaviour, Integrated BS-MS 3rd Year & Integrated Ph.D. 1st Year, IISER Kolkata.

- 2015 **Introduction to Biology II**, *Evolution*, Integrated BS-MS 1st Year, IISER Kolkata.
- 2014 **Introduction to Biology II**, *Evolution*, Integrated BS-MS 1st Year, IISER Kolkata.

Awards & Honours

- 2018 IISER Kolkata International Travel Grant, Participation in ECBB (European Conference on Behavioural Biology) held at Liverpool, United Kingdom.
- 2017 Award for best oral presentation, International Conference for Zoological Sciences and Ants (11th ANeT), Punjabi Univerity, India.
- 2012 Eligibility for Lectureship, Joint CSIR-UGC Test for Junior Research Fellowship and Eligibility for Lectureship (NET).
- 2007-2010 **INSPIRE-SHE scholarship**, for Higher studies in Basic and Natural Sciences, Department of Science and Technology (DST), India.

Skills

OS Windows and Linux (Ubuntu and derivatives)

Programming R, LATEX, Python, GitHub

Web design HTML + CSS, R Markdown

Graphic Adobe Photoshop/GIMP, Adobe Illustrator/Inkscape

design

Media editing Avidemux/Openshot, Handbrake/FFmpeg, Audacity etc.

References

Prof. Sumana Annagiri Dept. of Biological Sciences IISER Kolkata, India ⊠ sumana@iiserkol.ac.in Dr. Nandini Rajamani Assistant Professor Dept. of Biology IISER Tirupati, India ⋈ nandini@iisertirupati.ac.in

Dr. Anindita Bhadra

Associate Professor Dept. of Biological Sciences IISER-Kolkata, India ⊠ abhadra@iiserkol.ac.in