

Sachin Suresh

PH.D. STUDENT · SCHOOL OF LIFE SCIENCES

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Education

Arizona State University

PH.D. STUDENT, SCHOOL OF LIFE SCIENCES

• Advisor: Dr. Timothy Linksvayer

Tempe, Arizona

2023 - present

Texas Tech University

PH.D. STUDENT, DEPARTMENT OF BIOLOGICAL SCIENCES

• Advisor: Dr. Timothy Linksvayer

Lubbock, Texas

2021 - 2023

Indian Institute of Science Education and Research

MASTER'S AND BACHELOR'S, DEPARTMENT OF BIOLOGICAL SCIENCES

• Advisor: Prof. Sumana Annagiri

Kolkata, India

2014 - 2019

Professional Appointments

2021 - 2022 **Graduate Teaching Assistant**, Texas Tech University, Lubbock, Texas

2019 - 2021 **Research Assistant**, Axel Brockmann Lab, National Center for Biological Science, Bangalore, India

2018 - 2019 **Undergraduate Teaching Assistant**, Indian Institute of Science Education and Research, Kolkata, India

Publications

PUBLISHED

Ebi Antony George, Neethu Thulasi, Patrick L. Kohl, **Sachin Suresh**, Benjamin Rutschmann, Axel Brockmann; Distance estimation by Asian honey bees in two visually different landscapes. *Journal of Experimental Biology*.

IN REVIEW

Sachin Suresh, Ishani Mukherjee, Sumana Annagiri; Influence of nest-site population on deciding a new dwelling in an Indian ant (under review in *Journal of Experimental Biology*.)

Rohini Singh, **Sachin Suresh**, Jennifer H. Fewell, Jon F. Harrison, Timothy A. Linksvayer; *Wolbachia*-infected pharaoh ant colonies have higher egg production, metabolic rate, and worker survival (under review in *Proceedings of the Royal Society B*.)

Awards, Fellowships, & Grants

2014 - 2019 **INSPIRE Research Fellowship**, Government of India \$ 3600

June 2023 **TTUAB Research Grant**, Texas Tech University \$ 700

Nov 2022 **Study Abroad Competitive Scholarship**, Texas Tech University \$ 500

2022 - 2023 **University Travel Grant**, Texas Tech University 2 × \$ 550

Talks

PRESENTATIONS

July 2022. Rohini Singh, **Sachin Suresh**, Jennifer H. Fewell, , Jon F. Harrison, Timothy A. Linksvayer; Life-history effects of *Wolbachia* infection on Pharaoh ants *Monomorium pharaonis*, IUSSI, San Diego, USA

June 2023. **Sachin Suresh**, Timothy A. Linksvayer; Does Haplodiploidy drive the evolution of Eusociality in insects?, SSE Evolution, Albuquerque, USA

POSTERS

January 2019. **Sachin Suresh**, Ishani Mukherjee, Sumana Annagiri; Influence of nest-site population on deciding a new dwelling in an Indian ant, Understanding behavior conference, Kolkata, India

Research Experience

Indian Institute of Science Education and Research

Kolkata, India

ADVISOR: PROF. SUMANA ANNAGIRI

Aug. 2018 - May 2019

- Master's Thesis: Role of quorum in deciding on a new dwelling in an Indian ant
- Description: Study of intrinsic factors such as the nest-site population that influences the temporal dynamics of the relocation in ant species, *Diacamma indicum*.
- Conceptualized the study for the project
- Conducted all the experiments, performed all the statistical analyses, prepared the manuscript

National Center for Biological Sciences

Bangalore, India

ADVISOR: DR. AXEL BROCKMANN

2020-2021

- Project: Mechanistic drivers of nocturnal foraging in an Asian honeybee
- Description: Study of mechanisms by which the giant honeybee (*Apis dorsata*) forages during the night
- Conducted the experiments, Performed waggle-dance analyses
- Manuscript under preparation

National Center for Biological Sciences

Bangalore, India

ADVISOR: DR. AXEL BROCKMANN

2019-2020

- Project: Plasticity of the waggle dance related odometer in Asian honey bees
- Description: Study on effect of optic flow on the waggle dance behaviour in two Asian honey bee species.
- Performed waggle-dance analyses required for the study

Teaching Experience

- Spring 22 **BIOL 3305: Organic Evolution**, Teaching Assistant
- Fall 2021 **BIOL 1403: Introduction to Biology**, Teaching Assistant
- Spring 19 **Ecology and Conservation**, Teaching Assistant
- Fall 2019 **Introduction to Biology**, Teaching Assistant

Mentoring

2020-2021 **Shankhadip Chakrabarty**, Master's student, Banaras Hindu University

Bangalore

Training/Skills

Programming: Python, MATLAB

Plotting Software: ggplot2, Gnuplot, Origin

Statistical computing package: R

Microscopy: Epifluorescence, Confocal

Service & Outreach

Aug 2021 - **Texas Tech University Association of Biologists**, Member

Lubbock, TX

Professional Memberships

2022 - 2023 **International Union for the Study of Social Insects, North American Section (IUSSI-NAS),**
2022 - 2023 **Animal Behavior Society (ABS),**
2023 - 2024 **Society for the Study of Evolution (SSE),**