

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

2023 - 2025 **Graduate Research/Teaching Assistant**, Arizona State University, Tempe, Arizona

2021 - 2023 **Graduate Research/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

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. *Journal of Experimental Biology*.

Grant Navid Doering, Mathew M. Prebus, **Sachin Suresh**, Jordan N. Greer, Riley Bowden, Timothy A. Linksvayer; Emergent collective behavior evolves more rapidly than individual behavior among acorn ant species. *Proceedings of the National Academy of Sciences*.

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, Timothy A. Linksvayer; Haplodiploidy alone does not predict the evolution of eusociality (under review in *Proceedings of the National Academy of Sciences*.)

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*.)

Awards, Fellowships, & Grants

2014 - 2019	INSPIRE Research Fellowship , Government of India	\$ 3600
2023	TTUAB Research Grant , Texas Tech University	\$ 700
2022	Study Abroad Competitive Scholarship , Texas Tech University	\$ 500
2022 - 2023	University Travel Grant , Texas Tech University	2 × \$ 550
2025	GSG Graduate Support Award , Arizona State University	\$ 300
2025	Graduate College Travel Award , Arizona State University	\$ 300
2025	SOLS Travel Award , Arizona State University	\$ 325

Talks

PRESENTATIONS

- November 2025. **Sachin Suresh**, Timothy A. Linksvayer; Does Haplodiploidy drive the evolution of Eusociality in insects?, Entomology, Portland, USA (received best talk award for the symposium)
- 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

Previous 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 25 **BIOL 320: Fundamentals of Ecology**, Teaching Assistant
- 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
2021-2023	Lia Thompson , Research Assistant, Arizona State University	Tempe
2023-2024	Mitchell Chin , Undergraduate, Arizona State University	Tempe
2025-	Srilaasya Karamsetty , Undergraduate, Arizona State University	Tempe

Training/Skills

Programming: R, Python, Unix

Microscopy: Epifluorescence, Confocal

Molecular Biology: Polymerase Chain Reaction (PCR), SDS-PAGE, Western blot, Fluorescence-Activated Cell Sorting (FACS)

Service & Outreach

2021 - 2023	Texas Tech University Association of Biologists , Member	Lubbock, TX
2023 - 2024	Social Insect Research Group Seminar series , Organizer	Tempe, AZ

Professional Memberships

2022 - 2023	International Union for the Study of Social Insects, North American Section (IUSSI-NAS) ,
2022 - 2023	Animal Behavior Society (ABS) ,
2023 - 2027	Society for the Study of Evolution (SSE) ,
2025 - 2027	American Association for the Advancement of Science (AAAS) ,
2025 - 2027	Entomological Society of America (ESA) ,