Siddhant Pusdekar

Science Writer

PhD Candidate, Ecology Evolution and Behavior, University of Minnesota

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Writing Samples - https://siddhantpusdekar.com/

Education

University of Minnesota 2018 – present PhD, Ecology, Evolution and Behavior King's College London MSc, Neuroscience 2014 - 2015 St. Xavier's College, Mumbai BSc, Life Sciences 2011 - 2014

Research Experience

PhD Candidate University of Minnesota

Minneapolis, USA 2018 - present

- Planned and executed field based behavioral experiments in the robber fly Laphria saffrana, damselfly Callopteryx maculata, and dragonfly, Phanogomphus spicatus
- Analyzed high-speed videos using MATLAB, FIJI, Deep Lab Cut
- Planned and executed qualitative research project on science communication

Post-Baccalaureate Research Fellow, Max Planck Florida Institute for Neuroscience

Jupiter, USA 2016-2018

- Performed cranial surgeries on ferrets
- Imaged neural activity using a twophoton microscope
- Analyzed neural activity patterns using FIJI and MATLAB

Science Journalism

The Xylom

• Saying DEI in an Indian accent

Massive Science

 Artificial light makes it harder for nocturnal pollinators to find flowers

The Wire

- The globetrotting dragonfly that follows Dec 2021 the monsoon
- In India's unequal research system, frugal labs are a bittersweet gem
- How a farmers' pest is making scientists rethink the speed of evolution

Mongabay

Counting India's wolves one howl at a time

<u>Salon - Scientists Manipulated Bat's social</u> relationships and watched them go from strangers to friends

<u>Sahan Journal - Language barriers in health</u> care contribute to more COVID deaths,

Minnesota researcher finds

Scientific American - A good night's sleep may help control blood sugar

The Hindu – Plants warn each other of

danger, now we can watch them

The Converation - Robber flies track their
beetle prey using tiny microbursts

of movement

Aug 2022

Nov 2022

Mar 2022

Oct 2021

Nov 2021

Aug 2023

Dec 2023

Nov 2023

May 2024

Research Experience (contd)

Research Intern, Indian Institute for Science Education and Research, Pune

Pune, India 2015-2016

Performed feeding behavior experiments in larval zebrafish

MSc Thesis, King's College London

London, UK 2014 - 2015

- Injected larval zebrafish with plasmids
- Captured plasmid expression using confocal micrsocopy and mapped neural connections

Grants and Fellowships

- Max Planck Florida Institute for Neuroscience Postbac Fellowship
- Itasca Biological Station and Laboratories,
 Director's Fellowship 2022

Academic Publications

- Predictive saccades and decision making in the beetle-predating saffron robber fly
 Current Biology 2023
- Cuttlefish use stereopsis to strike at prey
 <u>Science Advances</u>
 2020
- Binocular Encoding in the Damselfly Premotor Target Tracking System. <u>Current Biology</u>
- An Open Letter to University of Minnesota Ecology, Evolution, and Behavior Faculty about Diversity and Inclusion (Version 1.0). Zenodo

Presentations

- Animal Behavior Society "Predictive Saccades in the Saffron Robber Fly, Laphria Saffrana"
- Society for Neuroscience "Temporal 2022 Characteristics of Contrast Adaptation in the Ferret Visual Cortex"

Science Communication

Biological Purpose Project
 Host/Producer of the Purpose
 Podcast

Science Communication Liaison 2020-2021

 Blog writer, Bioline the UMN College of Biological Sciences Blog
 Fall 2021

"Perspectives from the field" for
 Upstream, the Itasca Biological Station
 Newsletter
 Jun 2022

Mind Gala Mentorship – Mentored science students in popular science Aug 2022
 writing compiled in the book- Tales of Neuroscience

 Communicated ecology and behavior of dragonflies for the Minnesota Dragonfly Society

Teaching Experience

<u>Teaching Assistant, University of</u> 2018 - present <u>Minnesota, College of Biological Sciences</u>

- Providing Instruction in Introductory Biology Research
- Supervising student led experiments
- Mentoring Research Proposal Writing

Outreach

- Council of Graduate Students
 Representative, University of
 Minnesota
- Inclusivity, Diversity, Equity and 2020- present Action Committee, Ecology, Evolution and Behavior Department
- MAP Program Mentoring Indian 2022 present PhD applicanats