

Aditya IYER

PhD student

Max Planck Institute for the Neurobiology of Behaviour - caesar | Bonn

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Understanding development of behaviour. Developing tools and designing experiments. Biking and Science Communication

EDUCATION

- | | |
|--------------|---|
| 2020-Present | PhD Student - International Max Planck Research School for Brain and Behaviour, Bonn, Germany |
| 2020 | Master of Science (Research) - Medalist - Indian Institute of Science, Bangalore, India |
| 2015-2019 | Bachelor of Science (Research, Biology) - First Class with Distinction - Indian Institute of Science, Bangalore, India |

PUBLICATIONS

- | | |
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| REVIEW | Amphibian behavioral diversity offers insights into evolutionary neurobiology
Iyer, A. A., Briggman, K. L. Current opinion in neurobiology 71 (2021) : 19-28.
https://doi.org/10.1016/j.conb.2021.07.015 |
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EXPERIENCE

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| Present
Aug2020 | Development of Locomotion during tadpole metamorphosis
DR. KEVIN BRIGGMAN, Max Planck Institute for the Neurobiology of Behaviour – caesar <ul style="list-style-type: none">➤ 2 Photon Microscopy of spinal cord activity in restrained tadpoles➤ Behavioural Filming and Quantification➤ Whole Mount ImmunoHistoChemistry of spinal cords Neuroethology Microscopy ImmunoHistoChemistry Image Analysis Deep Learning |
| Jun2020
Apr2020 | Automating Diagnostic Reporting and Patient Data Handling
BLISC COVID19 DIAGNOSTIC CLINIC, Bangalore Life Science Cluster <ul style="list-style-type: none">➤ Administrative Manager of Patient Data Handling Team (8 people)➤ Developed Python Selenium web tools for automating centralised reporting of diagnostic results COVID19 Selenium Python Team Management |
| Jun2020
Aug2019 | Developing a microfluidic method for Single Cell Metabolic Measurement
DR. SHASHI THUTUPALLI, National Center for Biological Sciences <ul style="list-style-type: none">➤ Designed and implemented microfluidic devices for biological applications➤ Developed MATLAB and Python tools for image and data analysis Microfluidics Metabolism Engineering Image Analysis Python MATLAB |
| Apr2019
Oct2018 | Mechanosensory input mediated flight control in the soldierfly <u>Hermetia illucens</u>
PROF. SANJAY SANE, National Center for Biological Sciences <ul style="list-style-type: none">➤ Multi-camera high speed videography of freely flying flies➤ Integrated existing deep learning tools with custom Python and MATLAB for improved performance Behaviour High Speed Filming 3D Digitization Deep Learning Python MATLAB |
| Jul2018
May2018 | Dietary Tuning and begging behaviour of the mimic poison frog tadpole <u>Ranitomeya imitator</u>
DR. LAUREN O'CONNELL, Stanford University <ul style="list-style-type: none">➤ Tissue harvesting and RNA extraction➤ Animal Caretaker for in-house Poison frog and tadpole tanks Behaviour RNA extraction Cryostat Sectioning Python Animal Care |

WORKSHOPS AND COURSES

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| July 2022 | KITP 2022 qBio Summer School Neurophysics of Motion
KAVLI INSTITUTE FOR THEORETICAL PHYSICS UNIVERSITY OF CALIFORNIA SANTA BARBARA |
| August 2021 | International Summer School - Communicating Science
WID, BERLIN |
| April 2021 | Story Telling and Science Communication
MPINB - CAESAR, BONN |
| Dec 2019 | Winter School on Quantitative Systems Biology
ICTS, BENGALURU |
| July 2019 | CAMP Neuroscience
NCBS, BENGALURU |

LANGUAGES

English	●	●	●	●	●
Hindi	●	●	●	●	○
Tamil	●	●	○	○	○
German	●	●	○	○	○

PROGRAMMING LANGUAGES

- › Python
- › MATLAB
- › Julia
- › R
- › C++
- › HTML/CSS5

AWARDS

Sept. 2021	Indian Institute of Science - Medal FOR BACHELOR OF SCIENCE 2015-19
May 2018	Khorana Scholarship IUSSTF, DST GOVT. OF INDIA
Oct. 2017	iGEM 2017 Gold Medal TEAM IISc BENGALURU
2015-2020	KVPY Scholarship DST, GOVT. OF INDIA

REFERENCES

Dr. Kevin Briggman
MPINB –caesar, BONN
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Dr. Shashi Thutupalli
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Prof. Sanjay Sane
NCBS, BANGALORE
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Dr. Lauren O'Connell
Stanford University, STANFORD
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VOLUNTEERING AND OUTREACH

Nov. 2022	Indian Student Association of Bonn and Köln MASTER OF CEREMONY
2022	International Max Planck Research School for Brain and Behavior PHD STUDENT REPRESENTATIVE
Nov. 2021	International Society for the Advancement of Science Communication WEBSITE DESIGN
August 2020	Neuromatch 3.0 TECHNICAL SUPPORT - ZOOM
October 2019	Science Gallery Bangalore - ELEMENTS MEDIATOR
June 2018	NightLife - California Academy of Sciences STALL MANAGER
2017, '18, '19	Student Conference on Conservation Science SUPPORT STAFF
2017	Notebook Drive IISc VOLUNTEER
2016, '17	Vijyoshi National Science Camp SUPPORT STAFF