

Vishruta Prashant Yawatkar

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Education	Master of Science in Data Science <i>University of Delaware</i>	August 2019 -
	Bachelor of Science - Master of Science (BS-MS Dual Degree, 5yr. Integrated) <i>Indian Institute of Science Education and Research (IISER), Pune</i>	August 2013 - May 2018
Awards and Achievements	<ul style="list-style-type: none">- (DST) Ministry of Science and Technology, India INSPIRE (SHE) Scholarship Awardee (2013 - 2018)- National Network for Mathematical and Computational Biology (NNMCB) Fellowship (2016)- Full assistantship for a Master's degree in Data Science funded through an NSF EPSCoR grant at the University of Delaware	
Research Experience		
May 2017 - March 2018	Master's Thesis: Analysis of Learning of an Echolocation Task in a Bottlenose Dolphin <i>Supervisors:</i> Prof. Mandar Chitre and Dr. Matthias Hoffmann-Kuhnt	
NUS Singapore	<ul style="list-style-type: none">- Involved data analysis to understand how a young dolphin learns to echolocate and follow an object concealed underwater inside a box.- Analyzed data in MATLAB to identify echolocation clicks and changes in their properties as the dolphin fine-tuned its capability to perform the task of echolocation.- Analysis of behavior along with the average number of clicks and the variance of the mean number of clicks showed that there was learning of echolocation involved.	
June 2016 - July 2016	Visual Sensing Behavior in Schooling Fish (Internship) <i>Supervisor:</i> Prof. Vishwesh Guttal	
IISc Bengaluru	<ul style="list-style-type: none">- Analyzed video data using image processing to track the navigational paths of fish.- Analysis was performed in MATLAB for videos, each in which paths of at most 250 fish were traced.	
August 2015 - April 2017	Are Introductory notes in Zebra Finches (songbirds) Innate or Learned? (Semester Projects) <i>Supervisor:</i> Dr. Raghav Rajan	
IISER Pune	<ul style="list-style-type: none">- Involved MATLAB based analysis of vocalizations in zebra finch tutors and offsprings to compare their song, particularly the number and structure of introductory vocalizations (notes) across nests.- The study showed a correlation between the number of introductory vocalizations in the tutor and the offsprings.	

June 2015 - July 2015

Ecology of Secondary Freshwater Fish - *Terapon jarbua* (Summer Project)

Supervisor: Dr. Neeleesh Dahanukar

IISER Pune

- Collected specimens of *Terapon jarbua* and studied their ecological environment.
- Performed DNA isolation and analysis to study their molecular phylogeny and genetic diversity.
- Preliminary genetic analysis showed composition similar to those in other geographically distant regions.

June 2014 - July 2014

Molecular Phylogeny of genus *Rasbora* from India (Summer Project)

Supervisor: Dr. Neeleesh Dahanukar

IISER Pune

- Performed fish morphometric analysis, DNA isolation, and analysis which showed that *Rasbora daniconius* is a species complex with at least five different valid species.
- Studied their molecular phylogeny using software like FASTA, BioEdit, and MEGA-6 to understand species distribution.

April 2016

Olive Ridley Conservation - A Change to be Acknowledged (Course Project)

IIESR Pune

- Interviewed the members of a turtle conservation program in Velas, Maharashtra.
- Observed the conservation approaches and studied their potential ecological and anthropogenic impacts.

Poster Presentations

- Shikha Kalra, **Vishruta Yawatkar** and Raghav Rajan (2017, October). *Understanding the origin of introductory vocalizations in song bird, the Zebra finch*. Poster presented at the XXVI International Bioacoustics Congress, Haridwar, India (2017)
- S. KALRA, **V. YAWATKAR**, L. S. JAMES, J. T. SAKATA, R. RAJAN (2018, November) *Understanding the origin of introductory vocalizations in a song bird, the zebra finch*. Poster presented at Neuroscience 2018 (Society for Neuroscience), San Diego, CA, USA