

Mrugank Dake

Cognition and Perception Program, Department of Psychology,
New York University.

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Education:

Degree	Institute	GPA
PhD	New York University (NYU)	Ongoing
Integrated BS-MS	Indian Institute of Science Education and Research (IISER) Tirupati	8.1
Higher Secondary Schooling (12th)	Fergusson College, Pune	86.00 %
Secondary Schooling (10th)	Dnyanganga English Medium School, Pune	95.60 %

Research Experience:

Sept 2021 till date	Role of early visual cortex in visual working memory; Prof. Clayton Curtis, NYU
July 2020 to May 2021	Masters Thesis: Statistical and Machine learning approaches to Squirrel Acoustics; Dr. Nandini Rajamani, IISER Tirupati
Dec 2019	Preliminary EEG and MRS Analysis for Behavioral Study on Attentional Blink; Dr. Sridharan Devarajan, IISc Bangalore
Nov 2018 to Nov 2019	iGEM 2019 Project "CoCa coli: designing a colon cancer targeting <i>E. coli</i> "; Prof. B J Rao and Dr. Raju Mukherjee, IISER Tirupati
June 2019 to July 2019	Behavioral Paradigm for the Study of Attention; Dr. Sridharan Devarajan, IISc Bangalore
Sept 2018 to Nov 2019	Practicing Cell culture and Molecular biology techniques with special emphasis on hippocampal primary culture; Dr. Vasudharani Devanathan, IISER Tirupati
May 2018 to July 2018	Identifying differentially expressing Tumor Suppressor Genes in <i>Drosophila melanogaster</i> Wing and Haltere Imaginal Discs; Prof. L S Shashidhara, IISER Pune
Feb 2018	RNA Origami (Square); Dr. Ashwani Sharma, IISER Tirupati

Sept 2017 to Nov 2017	Basic Molecular Biology Techniques using <i>Arabidopsis</i> ; Eswarayya Ramireddy, IISER Tirupati
May 2017 to July 2017	Head Direction Cell Model for Rodents with Internal Updating Mechanism; Dr. Collins Assisi, IISER Pune

Special Achievements :

2020	Team Mentor for International Genetically Engineered Machine (iGEM) Manav Rachna Institute 2020: iBEC 2020 Grant
2019	Student Team Leader for International Genetically Engineered Machine (iGEM) IISER_Tirupati 2019: iBEC 2019 Grant and Gold Medal at Giant Jamboree
Dec 2016	Participant at KVPY Vijyoshi National Science Camp, Indian Institute of Science (IISc)
Since 2016	Innovation in Science Pursuit for Inspired Research (INSPIRE SHE) Scholar
2015	Indian National Brain Bee (INBB) Pune Regional Winner and Ranked 5th at National Level held in Delhi

Teaching Experience:

April 2020 to Aug 2021	Statistics Managed Network Expert at Chegg India
Dec 2019 to Feb 2020	Biology Internship at Sanfoundry, Sanfoundry's Global Learning Initiative
Sept 2019 to Aug 2021	Biology Managed Network Expert at Chegg India

Club/Society Memberships:

Jan 2017 to Nov 2017	Co-ordinator at Shemushi (Quiz Club), IISER Tirupati
2016	Disha Member (Student Outreach Club of IISER Pune)
2016 to 2020	Co-ordinator at Bio wissen (Biology Club), IISER Tirupati

Other Skills:

1. Python and Matlab Programming
2. Machine Learning and Neural Networks
3. EEG Data Analysis
4. Molecular Biology and Cellular Biology Techniques
5. *Drosophila* culture and genetics
6. Mammalian cell culture