

# JOHN REDDY PEASARI

## MS Bioinformatics and Computational Biology & B.Tech Biotechnology

@ johnreddy.peasari@slu.edu    +1-207-299-2199    4020 Lindell Blvd Apt 403, 63108    Saint Louis, MO USA  
johnreddy.me    linkedin.com/in/JohnPeasari    github.com/jpeasari

## EDUCATION

### Saint Louis University

#### Masters in Bioinformatics and Computational Biology

Aug 2019 – Present    Saint Louis, MO, USA

- Bioinformatics Major GPA: 3.92
- Graduate Research Assistant
- Graduate Tuition Scholarship from SLU

### Sreenidhi Institute of Science and Technology

#### Bachelors in Biotechnology, BTech

Sep 2014 – April 2018    Hyderabad, India

- Undergraduate Researcher
- Biotechnology Major Percentage: 3.70
- Best Student of Biotechnology

## EXPERIENCE

### Research Intern- Donald Danforth Plant Science Center

#### The Slotkin Laboratory

June 2020 – August 2020    Saint Louis, MO, USA

### Graduate Research Assistant

#### Dr. Zhenguo Lin Lab

September 2019 – Present    Saint Louis, MO, USA

### Scientific Assistant

#### BhaPra Biosolutions

October 2019 – June 2019    CCMB, Hyderabad, India

- Worked in the project titled: Development of Mosquito repellent military uniform impregnated with micro encapsulated formulations through novel pressure plasma technique.
- Synthesized Nano particles and standardization of all the formulations.

### Undergraduate Researcher

#### Department of Biotechnology, India

Sep 2018 – Aug 2019    SNIST, Hyderabad, India

- Worked as undergraduate researcher in the project titled "Micro algal biomass production in an energy efficient internally illuminated bubble column Photo-bioreactor for bio diesel production".
- Cultivation of Algae and Spirulina for biomass production, lipid enhancement and Phycocyanin extraction.

## LANGUAGES

Telugu  
English  
Hindi



## TECHNICAL SKILLS

Python    C++    Bash    R    SQL  
NGS analysis tools    RNA Seq    SAS

## COURSE WORK

Genomics    Bioinformatics I, II    SAS  
ML    HDS-HPC    Data structures  
Biometry    Databases    Algorithms

## PROJECTS

Identifying 3' UTR ends from RNA Seq data

Identifying RdDM strength based on the methylation pattern

Measuring poly(A) tail length variation in Arabidopsis SOC1 gene

Health care organisation database project

Detection of Facial Expression in Real-Time using Convolution Neural Networks

Optimization of stress conditions in Chlorella sorokiniana for enhanced lipid and PUFA content

Homology Modeling and MDS

Bioethanol from algae using Grape pomace

Astaxanthin and lipid extraction from Algae

## PUBLICATIONS

- Phytochemical screening and in silico studies of flavonoids from Chlorella pyrenoidosa.
- Chromatographic analysis of phytochemicals in costus igneus and computational studies of flavonoids.
- Simultaneous Production of Astaxanthin and Lipids from Chlorella Sorokiniana in presence of Reactive Oxygen Species.
- An siRNA-guided ARGONAUTE protein directs RNA Polymerase V for the first round of RNA-directed DNA methylation - InReview

## OTHER

- CAMDA challenge - Participated in ISMB 2020 virtual conference
- Received a fellowship award for ISMB 2020
- President of Technical Association of Biotechnology club.
- Awarded Nova Scotia Graduate Scholarship -Dalhousie University.

For more information please visit [jpeasari.me](http://jpeasari.me)