AMOGH PRABHAV JALIHAL

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O https://github.com/amoghpj

EDUCATION

Virginia Polytechnic and State University

August 2015 - August 2020 (Expected)

♀ Blacksburg, VA

Doctor of Philosophy in Genetics, Bioinformatics, and Computational Biology

SASTRA University

June 2011 - May 2015

♥ Thanjavur, India

Bachelor of Technology in Biotechnology

RESEARCH

- "Modeling and Analysis of Nutrient Signaling in *S. cere-visiae*", co-advised by Dr.s John Tyson and T.M. Murali, GBCB program, Virginia Tech
- Lab rotation, Fall 2015, Hauf Lab, Under supervision of Dr. Silke Hauf, Virginia Tech
- Laboratory Assistant, Spring 2015, Dernburg Lab, under supervision of Dr. Abby Dernburg, UC. Berkeley, Berkeley, CA
- Summer Intern NIGINTERN 2014, Summer 2014, Cell Architechture Laboratory, under supervision of Dr. Akatsuki Kimura, National Institute of Genetics, Mishima, Japan

PUBLICATIONS

- 3. **Jalihal, A. P.**, Kraikivski, P. , Murali, T. M. & Tyson, J. J., (*In preparation*), Modeling and Analysis of the Macronutrient Signaling Network in Budding Yeast
- 2. Pratapa, A., Jalihal, A. P., Law, J. N., Bharadwaj, A., & Murali, T. M. (January 2020). Benchmarking algorithms for gene regulatory network inference from single-cell transcriptomic data. *Nature Methods*, 1-8.
- Pratapa, A., Jalihal, A. P., Ravi, S. S., & Murali, T. M. (August 2018). Efficient Synthesis of Mutants Using Genetic Crosses. In Proceedings of the 2018 ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics (pp. 53-62). ACM.

AWARDS

Silver award (second place), Flash talk, *Modeling Nutrient Signaling in Yeast*, Graduate Student Assemble Research Symposium, Spring 2018

PRESENTATIONS

- Work In Progress Seminar, Department of Biological Sciences, Blacksburg, VA, Applications of Modeling to Biological Decision Making December 2019
- Biology and Medicine through Mathematics, Richmond, VA, Macronutrient Signaling in S. cerevisiae May 2018
- Biological Sciences Research Day, Blacksburg, VA, Macronutrient Signaling in S. cerevisiae February 2018
- Computational Tissue Engineering Seminar, Blacksburg, VA, Macronutrient Signaling in S. cerevisiae October 2017
- International Conference on Systems Biology, Blacksburg, VA, Macronutrient Signaling in S. cerevisiae August 2017

TEACHING

Virginia Polytechnic and State University

- Graduate Teaching Assistant Integrated Science Curriculum II (ISC 1106), Spring 2018
- Graduate Teaching Assistant Integrated Science Curriculum I (ISC 1105), Fall 2017

SERVICE

- Organized the Computational Tissue Engineering IGEP Graduate Seminar Spring 2017 – Fall 2019
- Contributed to maintenance of the GBCB website Summer 2019
- Volunteer at Kid's Tech University, Virginia Tech Spring 2017
- Treasurer for the SPIC-MACAY chapter at Virginia Tech (Kala) Summer 2018 – Spring 2020

SKILLS

- Languages Python, MATLAB, Bash, C++, Lisp
- Computing and graphics Docker, Git, Emacs, LATEX, GIMP, Inkscape
- Mathematics ODE modeling, Nonlinear dynamics, Numerical optimization
- Laboratory Live cell microscopy, PCR, yeast cell culture, nematode culture, worm dissection in *C. elegans*

MENTORSHIP

- Larissa Perara Undergraduate, CS, Virginia Tech, Spring 2018
- Alex Corrigan Undergraduate, Virginia Tech, Fall 2017
- Akshay Goel Undergraduate, CS, Virginia Tech, Fall 2017

WORKSHOPS

• Attended the Parameter Estimation RTG workshop at NCSU, Raleigh **Summer 2018**