

Sandra Aravind Areekal

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EDUCATION

AUG 2017 to present	Graduate Student, Biological Sciences Indian Institute of Science Education and Research (IISER), Pune Guide : Dr. Pranay Goel Research Interest: Mathematical modelling in Physiology, Biomedical Data Analysis Thesis Title: Modelling growth processes in Indian children
2012-2017	Integrated BS-MS, Majoried in Biological Sciences and Minored in Mathematics Indian Institute of Science Education and Research, Thiruvananthapuram Masters Dissertation Advisor: Dr. Nishant K.T Masters Dissertation: Developing a Graphical User Interface for the analysis of meiotic recombination patterns from whole-genome se- quence data.

EXPERIENCES

AUG - NOV 2018	Teaching Assistant: Biostatistics Indian Institute of Science Education and Research Pune for Undergraduates and PhD students
JAN - MAR 2019	Teaching Assistant: Data science Indian Institute of Science Education and Research Pune for Undergraduates and PhD students
JULY 24-26 2019	Volunteer Workshop on Introduction to Machine Learning, focused on Applications in Biology for Undergraduate Teachers organised by IISER Pune

INTERNSHIPS

- MAY 2016 Advisor: Dr. Nishant K.T
Indian Institute of Science Education and Research, Thiruvananthapuram
Topic : Next-Gen Sequence Analysis - Crossover analysis and CHIP-seq analysis
- JUNE 2015 Advisor: Dr. Mahesh Sankaran
National Centre for Biological Sciences, Bangalore
Topic : Plant Functional Traits: Measurement of specific leaf area
- JUNE 2014 Advisor: Dr. Achuthsankar S
Department of Bioinformatics, University of Kerala
Topic: Introduction to Computational Biology and Phylogenetic analysis

SCHOLARSHIPS AND AWARDS

- 2012-2017 DEPARTMENT OF SCIENCE AND TECHNOLOGY- INSPIRE FELLOWSHIP
FEB 2017 GRADUATE APTITUDE TEST IN ENGINEERING (LIFE SCIENCE) FELLOWSHIP
DEC 2017 COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH-JUNIOR RESEARCH FELLOWSHIP

COMPUTER SKILLS

R, MATLAB, \LaTeX , Microsoft Office

CONFERENCES AND WORKSHOPS: FROM 2018

- 42nd Annual Meeting of the Indian Biophysical Society, IISER Pune, March 2018
- Dynamics of Complex Systems: School, ICTS Bangalore, July 2018
- ICMCB-2018 International Conference on mathematical modelling and computations in biosystems, IIT Roorkee
- ThoughtWorks E4R Symposium 2019: Science and Engineering of Complex Systems, IISER Pune, January 2019
- 3rd David Baker Memorial Symposium February 2019
- Intel AI on IA Workshop, IISER Pune, 5th July 2019
- 1st TCGA workshop and conference in India - 'Multi-Omics Studies in Cancer: Learnings from TCGA', IISER Pune, September 2019
- 7th Biennial meeting of Indian Society for Pediatric and Adolescent Endocrinology, 12th to 13th November 2021.
Poster title: A comparison of longitudinal and cross-sectional growth curve models developed using SITAR and GAMLSS in Indian children.

INTERESTS AND ACTIVITIES

I enjoy reading books, watching football, playing badminton, and hiking.