Hrushikesh Loya — Curriculum Vitae

Contact

Department of Statistics
University of Oxford, UK
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Education

University of Oxford, Oxford, UK — Sep 2020 – Present
Doctor of Philosophy in Genomic Medicine and Statistics CDT
Clarendon Scholar

Indian Institute of Technology, Bombay, Mumbai, India — Jul 2015 – Jun 2020
Bachelor and Master of Technology in Electrical Engineering
Honors in Electrical Engineering with Major Cumulative GPA of **9.54/10**

National University of Singapore, Singapore — Aug 2018 – Dec 2018
TFI-LEaRN Semester Exchange Program
Electrical Engineering and Computer Science with Cumulative GPA of **9.8/10**

Academic Honors

Recipient of the **Medical Sciences CDT award** and **Clarendon Fellowship** — 2020

Recipient of the **Undergraduate Research Award** at IIT Bombay — 2020
For excellence in research conducted towards completion of master's thesis

Department **rank 3** in Electrical Engineering batch of 82 students at IIT Bombay — 2020

Awarded **TFI-LEaRN Scholarship** for semester exchange in NUS — 2018
1 out of 45 scholars from Asia to be recognized as Leaders of tomorrow

Recipient of the **Institute Academic Prize** at IIT Bombay — 2017
For being one of the top two in the department based on a year's performance

Publications

Uncertainty Estimation in Cancer Survival Prediction — Mar 2020
AI4AH Workshop at International Conference on Learning Representations (ICLR)
Hrushikesh Loya, Pranav Poduval, Deepak Anand, Neeraj Kumar and, Amit Sethi

Stochastic Activation & Bistability in a Rab GTPase Network — Jan 2020
Proceedings of the National Academy of Sciences of the United States of America (PNAS)
Urban Bezaljak, **Hrushikesh Loya**, Beata Kaczmarek, Martin Loose, Timothy Saunders

Functional Space Variational Inference for Uncertainty Estimation in Computer Aided Diagnosis — Jan 2020
Medical Imaging and Deep Learning (MIDL) Conference
Pranav Poduval, **Hrushikesh Loya**, Amit Sethi

Bayesian Framework for Cancer Survival Prediction — Nov 2019
Annals of Oncology
Hrushikesh Loya, Deepak Anand, Pranav Poduval, Neeraj Kumar and, Amit Sethi

Research Experience

Local Ancestry Inference using Whole-genome Genealogies
Department of Statistics, University of Oxford — Mar 2021 – Present
Advisor: Prof. Simon Myers
Designed a novel demographic inference method to estimate population sizes across time using genome-wide genealogies coming from Relate and Colate

Bayesian Machine Learning Perspective to Polygenic Risk Scores
Department of Statistics, University of Oxford — Dec 2020 – Mar 2021
Advisor: Prof. Pier Palamara
Proposed Bayesian neural networks for accurate and interpretable phenotype prediction in cross-ethnic samples from UK Biobank

Bayesian Framework for Cancer Survival Prediction and Prognosis
Electrical Engineering, IIT Bombay — Apr 2019 – Jun 2020
Master's Thesis; Advisor: Prof. Amit Sethi
Built an end-to-end pipeline for uncertainty estimation in cancer survival prediction using genomic information and some clinical features available in TCGA-BRCA