Hrushikesh Loya

Contact	Department of Statistics University of Oxford, UK Webpage: hrushikeshloya.github.io	+91 9769316234 \Im hrushikesh.loya@balliol.ox.ac.uk \textcircled{P}
Interests	Probabilistic Modeling, Machine Learning, Population Genetics, Statistical Genetics	
Education	University of Oxford, Oxford, UK Doctor of Philosophy in Genomic Medicine and Statisti Supervisors: Prof. Simon Myers and Prof. Pier Palamara Funding: Clarendon Scholarship and Wellcome PhD student	Sep 2020 – Present cs CDT
	Indian Institute of Technology, Bombay, Mumbai Bachelor and Master of Technology in Electrical Engine Major Cumulative GPA: 9.54/10 Class rank: 3 in 82	, India Jul 2015 – Jun 2020 æring
	National University of Singapore, Singapore TFI-LEaRN Semester Exchange Program Electrical Engineering and Computer Science with Cumulat	Aug 2018 – Dec 2018 ive GPA of 9.8/10
PUBLICATIONS	Uncertainty Estimation in Cancer Survival Pred AI4AH Workshop at International Conference on Learning Hrushikesh Loya, Pranav Poduval, Deepak Anand, Neera	iction Mar 2020 Representations (ICLR) j Kumar and, Amit Sethi
	Stochastic Activation & Bistability in a Rab GT Proceedings of the National Academy of Sciences of the Uni Urban Bezaljak, Hrushikesh Loya , Beata Kaczmarek, Mar	Pase NetworkJan 2020ted States of America (PNAS)rtin Loose, Timothy Saunders
	Functional Space Variational Inference for Uncer Aided Diagnosis Medical Imaging and Deep Learning (MIDL) Conference Pranav Poduval, Hrushikesh Loya, Amit Sethi	tainty Estimation in Computer Jan 2020
	 Bayesian Framework for Cancer Survival Predic Annals of Oncology Hrushikesh Loya, Deepak Anand, Pranav Poduval, Neera 	tion Nov 2019 j Kumar and, Amit Sethi
Research Experience	COIN++: Fast implicit neural compression with Department of Statistics, University of Oxford Advisor: Prof. Yee Whye Teh Soon to be published, COIN++ is a data-agnostic compre learning and model compression. COIN++ not only perform extends on other data modalities like MRI scans and atmosp	meta-learning and modulations Jun 2021 – Present ssion method using advances in meta- ns better on image level data but easily pheric pressure fields.
	GhostBuster: Finding ghost populations using g Department of Statistics, University of Oxford Advisor: Prof. Simon Myers Developed an expectation-maximization algorithm to identi- to form a present-day sample. GhostBuster is already able Eurasia to Africa, and evidence for Neanderthal introgression	enome-wide genealogies Mar 2021 – Present fy ghost populations that mix together to detect back migration events from n with modern humans.
	Bayesian machine learning for polygenic risk sco Department of Statistics, University of Oxford Advisor: Prof. Pier Palamara Proposed Bayesian neural networks with spike and slab prior in the effect estimates across different ethnicities. Our meth to the gold standard but also gives better cross-ethnic PRS	Dec 2020 – Mar 2021 to the capture sparsity and correlation od is not only more scalable compared in undersampled populations.

	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 accurate uncertainty estimation in cancer survival prediction using genomic information and some clinical features available in TCGA-BRCA.			
Technical Skills	ProgrammingPython, C++, C, MATLAB, Julia, Git, Shell, Slurm, LATEXPython modulesNumPy, Pandas, SciPy, PyTorch, JAX, Haiku	Python, C++, C, MATLAB, Julia, Git, Shell, Slurm, IAT _E X NumPy, Pandas, SciPy, PyTorch, JAX, Haiku		
Academic Honors	Recipient of the Medical Sciences CDT award and Clarendon Fellowship	2020		
	Department rank 3 in Electrical Engineering batch of 82 students at IIT Bombay	2020		
	Recipient of the Undergraduate Research Award at IIT Bombay 2020 For excellence in research conducted towards completion of master's thesis			
	Awarded TFI-LEaRN Scholarship for semester exchange in NUS21 out of 45 scholars from Asia to be recognized as Leaders of tomorrow2			
	Recipient of the Institute Academic Prize at IIT Bombay For being one of the top two in the department based on a year's performance			
	Secured an All India Rank of 839 in the Joint Entrance Examination Among 150,000 shortlisted candidates for admission into the Indian Institutes of Technology	2015		
Other Interests	Volunteered in National Social Service, India to promote a green campus			
	Teaching Assistant for five undergraduate level courses at IIT Bombay			
	Administered installation of bouldering wall & facilitated camps for $800+$ enthusiasts			
	Sports: Passionate about sport climbing indoors and outdoors			