

BISWAJIT PARIA

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RESEARCH INTERESTS	Active Experimentation, Black-Box Optimization, Sequential Design of Experiments, Time Series Forecasting, Deep Learning	
EDUCATION	Carnegie Mellon University , Pittsburgh, PA	Sep 2017 - Jul 2022 (tentative)
	M.S., Ph.D. in Machine Learning. Fall 21 GPA: 4.05 (A+: 4.33, A: 4.0).	Advisors: Barnabás Póczos , Jeff Schneider
	Indian Institute of Technology Kharagpur , India	Jul 2012 - Apr 2017
	5-year Bachelors and Masters in Computer Science and Engineering GPA 9.80/10.00, highest in class	
INTERNSHIPS	Summer Research Intern	Google Research. Mountain View, CA, 2020
	Hierarchical Time-Series Forecasting with Abhimanyu Das, Amr Ahmed <i>Proposed methods for forecasting of time series arranged in an hierarchy.</i>	
	Summer Research Intern	Snap Research. Los Angeles, CA, 2018
	Sparse Representations for Fast Retrieval with Ian En-Hsu Yen, Ning Xu <i>Proposed an approach to sparsify image embeddings in order to speed up retrieval using sparse matrix multiplication operations.</i>	
PAPERS	V. Mehta, B. Paria , J. Schneider, S. Ermon, W. Neiswanger. <i>An Experimental Design Perspective on Exploration in Reinforcement Learning</i> . Accepted to EcoRL workshop at NeurIPS 2021 (arxiv , under conference submission).	
	B. Paria , R. Sen, A. Ahmed, A. Das. <i>Hierarchically Regularized Deep Forecasting</i> . Pre-print 2021. (arxiv , under submission)	
	B. Paria , W. Neiswanger, R. Ghods, J. Schneider, B. Póczos. <i>Cost-Aware Bayesian Optimization via Information Directed Sampling</i> . ICML Workshop on Real World Experiment Design and Active Learning, 2020. (paper)	
	K. Kandasamy, K. R. Vysyaraju, W. Neiswanger, B. Paria , C. R. Collins, J. Schneider, B. Póczos, E. P. Xing. <i>Tuning Hyperparameters without Grad Students: Scalable and Robust Bayesian Optimisation with Dragonfly</i> . Journal of Machine Learning Research (JMLR), 2020. (arxiv , paper)	
	B. Paria , C.K. Yeh, I.E.H. Yen, N. Xu, P. Ravikumar, B. Póczos. <i>Minimizing FLOPs to Learn Efficient Sparse Representations</i> . International Conference on Learning Representations (ICLR), 2020. (paper , code)	
	B. Paria , K. Kandasamy, B. Póczos. <i>A Flexible Framework for Multi-Objective Bayesian Optimization using Random Scalarizations</i> . Uncertainty in Artificial Intelligence (UAI), 2019. (oral presentation, arxiv , paper)	
	B. Paria , K.M. Annervaz, A. Dukkupati, A. Chatterjee, S. Podder. <i>A Neural Architecture Mimicking Humans End-to-End for Natural Language Inference</i> . arXiv, 2016. (arxiv)	
	A. Lahiri, B. Paria , P.K. Biswas. <i>Forward Stagewise Additive Model for Collaborative Multiview Boosting</i> . IEEE Transactions in Neural Networks and Learning Systems, 2016. (arxiv , paper)	
HONOURS & AWARDS	Prime Minister of India Gold Medal Awarded to the highest ranking student of the graduating class	IIT Kharagpur, 2017

	Viterbi-India Scholar	2015
	<i>Funded summer internship at Viterbi School of Engineering, USC</i>	
	ACM ICPC World Finalist (Team <i>BitBees</i>)	2015
	<i>One of 7 teams from India at the International Collegiate Programming Competition</i>	
	Indian National Physics Olympiad (INPhO) Awardee	2012
	<i>for being among the top 30 candidates in India</i>	
	<i>Attended the team selection camp for the International Physics Olympiad (IPhO)</i>	
	Indian National Mathematical Olympiad (INMO) Awardee	2010 - 2012
	<i>for being among the top 30 candidates in India</i>	
	<i>Attended the team selection camp for the International Mathematics Olympiad (IMO)</i>	
	Kishore Vaigyanik Protsahan Yojana (KVPY) Scholar	DST ¹ , Govt. of India, 2011
	<i>for exceptional aptitude in basic sciences, 7th rank in India</i>	
	Australian Mathematics Competition (AMC) Gold Medallist	AMT ² , 2009
	<i>One of 23 medallists in the world</i>	
PROGRAMMING SKILLS	Python, Matlab, C, C++, bash Libraries: Tensorflow, PyTorch, numpy, sklearn	
RELEVANT COURSES	Advanced Introduction to Machine Learning Intermediate Statistics Statistical Machine Learning Probabilistic Graphical Models Advanced Statistical Theory Martingales	CMU, Fall 2017 CMU, Fall 2017 CMU, Spring 2017 CMU, Spring 2017 CMU, Fall 2018 CMU, Fall 2018
SERVICE & OTHER	Teaching Assistantships: Advanced Machine Learning Convex Optimization Deep Learning Machine Learning	CMU, Spring 2019 CMU, Fall 2018 IIT Kharagpur, Spring 2017 IIT Kharagpur, Fall 2016
	Math Olympiad Teaching	2012 & 2013
	<i>Taught number theory and combinatorics to high school students</i>	
	National Service Scheme (NSS)	2012 & 2013
	<i>Served under the NSS to work for the betterment of underprivileged children at a village primary school.</i>	

¹Department of Science and Technology

²Australian Mathematics Trust