

BISWAJIT PARIA

GHC 8003, Carnegie Mellon University, 5000 Forbes Ave, Pittsburgh PA, 15213, USA.

Web: <https://biswajitsc.github.io>, E-mail: bparia@cs.cmu.edu

RESEARCH INTERESTS	Statistical Machine Learning, Bayesian Optimization, Sequential Decision Making	
EDUCATION	Carnegie Mellon University , Pittsburgh, PA	Sep 2017 - Present
	M.S., Ph.D. in Machine Learning.	Advisor: Barnabás Póczos
	Indian Institute of Technology Kharagpur , India	Jul 2012 - Apr 2017
	5-year Bachelors and Masters in Computer Science and Engineering	
INTERNSHIPS	Summer Research Intern	Snap Research. Santa Monica, 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. We used a continuous surrogate for the FLOPs incurred during retrieval as a regularizer during training.</i>	
	Summer Research Intern	IISc ¹ and Accenture Tech. Labs. Bengaluru, India, 2016
	Natural Language Inference with Ambedkar Dukkipati (IISc) and Annervaz K.M. (ATL) <i>Proposed a deep learning model using LSTMs and attention for Natural Language Inference.</i>	
RELEVANT PAPERS	B. Paria , K. Kandasamy, B. Póczos. <i>A Flexible Framework for Multi-Objective Bayesian Optimization using Random Scalarizations</i> . Uncertainty in Artificial Intelligence, 2019. (oral, arxiv)	
	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> . arXiv, 2019.	
	B. Paria , K.M. Annervaz, A. Dukkipati, 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)	
	A. Guha, M.S. Pydi, B. Paria , A. Dukkipati. <i>Analytic Connectivity in General Hypergraphs</i> . arXiv, 2017. (arxiv)	
HONOURS & AWARDS	Prime Minister of India Gold Medal	IIT Kharagpur, 2017
	<i>Awarded to the top ranked graduating student</i>	
	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>	

¹Indian Institute of Science

Kishore Vaigyanik Protsahan Yojana (KVPY) Scholar
for exceptional aptitude in basic sciences, 7th rank in India

DST², Govt. of India, 2011

Australian Mathematics Competition (AMC) Gold Medallist
One of 23 medallists in the world

AMT³, 2009

PROGRAMMING SKILLS Python, Matlab, C, C++, bash
 Libraries: Tensorflow, PyTorch, numpy, sklearn

RELEVANT COURSES	Advanced Introduction to Machine Learning	CMU, Fall 2017
	Intermediate Statistics	CMU, Fall 2017
	Statistical Machine Learning	CMU, Spring 2017
	Probabilistic Graphical Models	CMU, Spring 2017
	Advanced Statistics	CMU, Fall 2018
	Martingales	CMU, Fall 2018

SERVICE & OTHER	Teaching Assistantships:	
	Advanced Machine Learning	CMU, Spring 2019
	Convex Optimization	CMU, Fall 2018
	Deep Learning	IIT Kharagpur, Spring 2017
	Machine Learning	IIT Kharagpur, Fall 2016

Math Olympiad Teaching	2012 & 2013
Taught number theory and combinatorics to high school students	

National Service Scheme (NSS)	2012 & 2013
Served under the NSS to work for the betterment of underprivileged children at a village primary school.	

²Department of Science and Technology

³Australian Mathematics Trust