

Amartya Sanyal

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Education

D.Phil in Computer Science (Advisor : Dr. Varun Kanade and Dr. Phil Torr)

2017 - 2021

UNIVERSITY OF OXFORD, ST. HUGH'S COLLEGE

B.Tech. in Computer Science and Engineering (Minor in Linguistics Theory)

CPI - 9.4/10.0

INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

2013 - 2017

Publications

Stable Rank Normalization for Improved Generalization in Neural Networks and GANs

Amartya Sanyal, Philip H.S. Torr, Puneet K. Dokania

International Conference on Learning Representations (ICLR), Spotlight Paper, 2020

How Benign is Benign Overfitting ?

Amartya Sanyal, Varun Kanade, Philip H.S. Torr, Puneet K. Dokania

In Submission, 2020

Progressive Skeletonization: Trimming more fat from a network at initialization

Pau Jorge, Amartya Sanyal, Harkirat S. Behl, Philip H. S. Torr, Gregory Rogez, Puneet K. Dokania

In Submission, 2020

The Intriguing Effects of Focal Loss on the Calibration of Deep Neural Networks

Jishnu Mukhoti, Amartya Sanyal, Viveka Kulharia, Stuart Golodetz, Philip H. S. Torr, Puneet K. Dokania

Advances in Neural Information Processing Systems, 2020

TAPAS: Tricks to Accelerate (encrypted) Prediction As a Service

Amartya Sanyal, Matt Kusner, Adria Gascon, Varun Kanade

International Conference on Machine Learning (ICML), 2018

Robustness via Low Rank Representations

Amartya Sanyal, Varun Kanade, Philip H.S. Torr, Puneet Dokania

Workshop on Theory and Application of Deep Generative Models, ICML, 2018

Optimizing non-decomposable measures with deep networks

Amartya Sanyal, Pawan Kumar, Purushottam Kar, Sanjay Chawla, Fabrizio Sebastiani

Springer, Machine Learning (2018). 2018

Multiscale sequence modeling with a learned dictionary

Bart Merriënboer, Amartya Sanyal, Hugo Larochelle, Yoshua Bengio

Workshop on Machine Learning in Speech and Language Processing, ICML, 2017

Agent based simulation of the evolution of society as an alternate maximization problem

A. Sanyal, S. Garg, A. Unmesh, H. Karnick

2017 International Conference on Behavioral, Economic, Socio-cultural Computing (BESCom), 2017

A Hybrid Deep Architecture for Face Recognition in Real-Life Scenario

Amartya Sanyal, Ujjwal Bhattacharya, Swapan K. Parui

Lecture Notes in Computer Science (Vol. 10481), 2016

Research Experience

Facebook AI Research, Dr. Edward Grefenstette

RESEARCH INTERN, GENERALIZATION IN REINFORCEMENT LEARNING

London, UK

June 2020 - September 2020

Laboratory for Computational and Statistical Learning, Prof. Lorenzo Rosasco

VISITING RESEARCHER, IMPLICIT REGULARIZATION OF GRADIENT DESCENT

Genoa, Italy

June 2019 - July 2019

Twitter Cortex, Nicolas Koumchatzky

RESEARCH INTERN, ADVERSARIAL GENERATION OF DISCRETE SEQUENCES

New York, NY, USA

May, 2017 - August 2017

Montreal Institute of Learning Algorithms, Prof. Yoshua Bengio

RESEARCH INTERN, LANGUAGE MODELLING WITH ADAPTIVE SEGMENTATION

Montreal, QC, Canada

May, 2016 - July, 2016

Amazon.com - Guided by Dr. Atool Saroop and Dr. Rajeev Rastogi

MACHINE LEARNING INTERN, COMPETITIVE PRICING WITH THE MACHINE LEARNING SELLER SERVICE TEAM

Bengaluru, India

May, 2015 - July, 2015

Teaching Responsibilities

- '19, '20 **Tutor in Theory of Optimization (60 students)**, Department of Engineering Science
- '18, '19, '20 **Tutor in Machine Learning**, Wadham College, Worcester College, Dept. of Computer Science
- '17 **Teaching Assistant in Computational Complexity**, Department Computer Science
- '14 **Academic Mentor**, Linear Algebra, Real Analysis and ODEs

University of Oxford

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IIT Kanpur

Academic Reviewing

- '20 **Reviewer for SODA 2020**,
- '19, '20 **Reviewer for NeurIPS 2019, 2020, ICML 2020**,
- '20 **Reviewer for CVPR 2020, ECCV 2020**,
- '20 **Reviewer for Workshop on Continual Learning**, ICML 2020
- '19 **Reviewer for Critiquing and Correcting Trends in Machine Learning**, NeurIPS 2019

Awards & Visits

- '19 **NeurIPS Top Reviewer Award**, One of the Top 400 reviewers
- '18 '20 **ICML Travel Award, ICLR Travel Award**, International Machine Learning Society
- '18 **Attended Machine Learning Summer School**, Buenos Aires, Argentina
- '17-'20 **Turing Doctoral Studentship Award**, The Alan Turing Institute, London, UK
- '14 & '16 **Academic Excellence Award**, IIT Kanpur
- '13 **KVPY(Kishore Vaigyanik Pratyashona Yojana)** , awarded to 280 students by the Gov. of India

Program Committees

- 2018 **Wining and Dining Officer**, St. Hugh's College MCR
- 2019 **Vice-President**, St. Hugh's College MCR
- 2015 **Editor**, Vox Populi, Campus Newsletter of IIT Kanpur
- 2016 **Coordinator**, SIGML - Special Interest Group in Machine Learning
- 2011 **President**, Social Welfare Group, St. Xaviers School, Raiganj
- 2015 **Editorial Executive**, Science And Technology Council - Core Team

University of Oxford

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