

Vedant Nanda

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Education

University of Maryland & Max Planck Institute for Software Systems

MD, USA & SB, Germany

PH.D. IN COMPUTER SCIENCE

2019 - now

- SECOND YEAR STUDENT IN UMD-MPI JOINT PROGRAM.
- RESEARCH INTERESTS: TRUSTWORTHY MACHINE LEARNING, COMPUTERS & SOCIETY
- GPA: 4.0/4.0
- TA FOR CMSC 320 (INTRO TO DATA SCIENCE), FALL 2019
- ADVISORS: KRISHNA P. GUMMADI (MPI-SWS) AND JOHN P. DICKERSON (UNIVERSITY OF MARYLAND)

Indraprastha Institute of Information Technology (IIIT) Delhi

New Delhi, India

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

2015 - 2019

- **GPA: 9.47/10**, IN TOP 5% OF INSTITUTE
- PART OF DEAN'S LIST FOR ACADEMIC EXCELLENCE FOR ALL YEARS
- SELECTED COURSEWORK: NUMERICAL METHODS, CALCULUS-I, CALCULUS-II, MACHINE LEARNING, COLLABORATIVE FILTERING, INFORMATION RETRIEVAL

Conference Publications

Fairness Through Robustness: Investigating Robustness Disparity in Deep Learning

FACCT (formerly FAT*)

VEDANT NANDA*, SAMUEL DOOLEY*, SAHIL SINGLA, SOHEIL FEIZI, JOHN P. DICKERSON

2021

* EQUAL CONTRIBUTION

Balancing the Tradeoff between Profit and Fairness in Rideshare Platforms during High-Demand Hours

AAAI

VEDANT NANDA, PAN XU, KARTHIK A. SANKARARAMAN, JOHN P. DICKERSON, ARAVIND SRINIVASAN

2020

ALSO PRESENTED AT AIES (ORAL)

On the Long-term Impact of Algorithmic Decision Policies: Effort Unfairness and Feature Segregation through Social Learning

ICML

HODA HEIDARI *, VEDANT NANDA *, KRISHNA P. GUMMADI

2019

* EQUAL CONTRIBUTION

Leveraging Facebook's Free Basics Engine for Web Service Deployment in Developing Regions

ICTD

S.SINGH*, VEDANT NANDA*, R.SEN, S.SENGUPTA, P.KUMARAGURU, K.P.GUMMADI

2017

* EQUAL CONTRIBUTION

Workshops and Posters

Unifying Model Explainability and Robustness via Reasoning Labels

Workshop on Safety and Robustness
in Decision Making, NeurIPS

VEDANT NANDA, JUNAID ALI, KRISHNA P. GUMMADI, MUHAMMAD BILAL ZAFAR

2019

Stop the KillFies! Using Deep Learning Models to Identify Dangerous Selfies

MSM Workshop, WWW

VEDANT NANDA, H.LAMBA, D.AGARWAL, M.ARORA, N.SACHDEVA, P.KUMARAGURU

2018

Empirical Analysis of Facebook's Free Basics

SIGMETRICS (poster)

S.SINGH*, VEDANT NANDA*, R.SEN, S.AHMAD, S.SENGUPTA, A.PHOKEER, Z.A.FAROOQ, T.A.KHAN, P.KUMARAGURU, I.A.QAZI,

2017

D.CHOFFNES, K.P.GUMMADI

* EQUAL CONTRIBUTION

Work Experience

University of Maryland, College Park

RESEARCH ASSISTANT

ADVISOR: JOHN P. DICKERSON

MD, USA

Jan 2020 - Present

University of Maryland, College Park

TEACHING ASSISTANT, CMSC320: INTRO TO DATA SCIENCE

ADVISOR: JOHN P. DICKERSON

MD, USA

Aug 2019 - Dec 2019

Max Planck Institute for Software Systems

RESEARCH ASSISTANT

ADVISOR: KRISHNA P. GUMMADI

Saarbrücken, Germany

Aug 2019 - Present

Max Planck Institute for Software Systems

RESEARCH INTERN

ADVISOR: KRISHNA P. GUMMADI

Saarbrücken, Germany

May 2018 - Aug 2018

Precog, IIITD

RESEARCH INTERN

ADVISOR: PONNURANGAM KUMARAGURU

New Delhi, India

May 2017 - Aug 2017

Honors & Awards

2019-20	Dean's Fellowship, University of Maryland.
2018	Best TA award for Data Structures and Algorithms given by the institute.
2018	Selected for SN Bose scholars program, to spend summer'18 at a US university. Awarded to top 50 undergrad and masters students across India. Rejected for internship at MPI-SWS.
2018	Selected for MPI-SWS internship program.
2016, 17, 18, 19	Dean's List for academic excellence.
2016, 17, 18, 19	Received Chairman Merit scholarship of Rs. 100,000.
2015	Secured the prestigious KVPY fellowship.
2015	Secured an All India Rank of 804 in JEE mains out of 1.5 million candidates.

Service

Reviewer	ASONAM 2019
	WWW 2020, 2021
	AAAI 2021
	CVPR 2021
	ICML 2021
	ICCV 2021

PhD Coursework

1. PHYS 798J: Science and Tech Policy

SPRING 2021 BY PROF. ROSINA BIERBAUM AND PROF. SYLVESTER GATES

2. CMSC 828L: Existential Threats from AI

SPRING 2021 BY PROF. DAVID JACOBS

3. CMSC 634: Empirical Research Methods in Computer Science

FALL 2020 BY PROF. MICHELLE MAZUREK, GRADE: A

4. CMSC 828I: Advanced Techniques in Visual Recognition and Learning

FALL 2020 BY PROF. ABHINAV SHRIVASTAVA, GRADE: A+

5. CMSC 764: Advanced Numerical Optimization

SPRING 2020 BY PROF. TOM GOLDSTEIN, GRADE: A

6. CMSC 828M: Applied Mechanism Design for Social Good

SPRING 2020 BY PROF. JOHN P. DICKERSON, GRADE: A

7. CMSC 726: Machine Learning

FALL 2019 BY PROF. SOHEIL FEIZI, GRADE: A

8. CMSC 723: Computational Linguistics I

FALL 2019 BY PROF. HAL DAUMÉ III, GRADE: A

Skills

ML	PyTorch, Python, Numpy, Pandas, Keras, Tensorflow
Other	Matplotlib, Git, Django, Java, Android Studio, C/C++, R, MATLAB, SVN

References

1. Prof. Krishna P. Gummadi

SCIENTIFIC DIRECTOR

MAX PLANCK INSTITUTE FOR SOFTWARE SYSTEMS

2. Prof. John P. Dickerson

ASSISTANT PROFESSOR, COMPUTER SCIENCE

UNIVERSITY OF MARYLAND, COLLEGE PARK