

DISHA SHUR

dshur@purdue.edu - dishashur.github.io

Research interests: Algorithms for learning on high-dimensional structures

Education and Skills

Purdue University

2020 - 2022

M.S., Electrical and Computer Engineering, 3.70/4

Thesis: PageRank Embedding under Prof. David Gleich

Key Courses: Artificial Intelligence, Introduction to Deep Learning, Algorithmic Economics, Numerical Computing in Data Science, Linear Algebra and Application, Advanced algorithms for networks, Machine Learning and Algorithms Seminar

Indian Institute of Engineering Science and Technology, Shibpur

2014-2018

B.Tech., Electronics and Telecommunication Engineering, 8.34/10, First class with honours

Key Courses: Mathematics I,II,III, Signal Processing, Information and Fuzzy Systems, Electromagnetic Theory, Principle of Analog and Digital Communication, Soft Computing

Skills: Julia, Python, C, C++, MATLAB, PyTorch, TensorFlow, LaTeX

Publications

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1. Anisur Rahaman Molla*, **Disha Shur***, "Smoothed analysis of leader election in distributed networks", accepted and presented at The 22nd International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS 2020).
 2. **Disha Shur**, K. Yaswanth, Uday K Khankhoje, "Two Dimensional Microwave Imaging Using a Divide and Unite Algorithm", presented at *2017 Progress in Electromagnetics Research Symposium - Fall (PIERS - FALL)*, Nov.2017, published in *IEEE Xplore*

* Alphabetical order.

Relevant Projects and Research Experience

Purdue University, West Lafayette

Jan'21 -

Research Assistant with Prof. David Gleich

Working on localized methods for developing node embeddings for higher order connected data.

Algorithmic Economics

Jan'21 - May'21

Coursework under Prof. Alex Psomas

Worked on application of machine learning on modelling non-truthful mechanisms.

Artificial Intelligence

Aug'20-Dec'20

Coursework under Prof. David Inouye

Worked on analyzing attention maps of BERT.

Indian Institute of Technology, Hyderabad

Aug'20 - Dec'20

Research Intern with Brain group

Worked on information retrieval from location based social network (LBSN).

Indian Statistical Institute, Kolkata

Jan'20 - Aug'20

Research Intern under Prof. Anisur Molla

Worked on smoothed analysis of distributed leader election algorithm.

Indian Institute of Science, Bangalore

Feb'19-Sep'19

Project Assistant under Prof. Chandra Murthy

Worked on reconstructing location-unaware samples by non-convex optimization techniques.

Indian Institute of Technology, Madras

May-Jul'17, Jul-Dec'18

Project Assistant under Prof. Uday Khankhoje

Developed an adaptive resolution based algorithm for inverse imaging via microwave scattering with application to tumor detection.

Work Experience

Purdue University <i>Graduate Teaching Assistant (TA), ECE301: Signals and Systems</i> TA under Prof. Fengqing Zhu for a class of 120 undergraduate students	Aug'21-Dec'21
Indian Institute of Science, Bangalore <i>Project Assistant, 5G Testbed, Department of Telecommunication</i> Worked on development of in-lab 5G testbed by implementing 3GPP Release 15 protocols	Jan'19-Nov'19

Awards and Funding

WiML Workshop, NeurIPS 2020, 2021 Awarded registration fee funding for WiML workshop co-located in NeurIPS 2021	Nov'21, Nov'20
Google Computer Science Research Mentorship Programme Mentorship by Google engineers and research scientists on current research methodologies and determining career pathway in Computer Science research.	Sep'21
Graduate Teaching Assistantship Tuition fees waiver for Fall 2021 semester	Aug'21 - Dec'21
Graduate Research Assistantship Tuition fees waiver for Spring and Summer 2021 semesters	Jan'21 - Jul'21
Global Alumni Association of Bengal Engineering and Science University (GAABESU) Travel grant to Nanyang Technological University, Singapore to present my work by the alumni association of IIST (Formerly BESU).	Sep'17
Summer Research Fellowship Programme (SRFP) Research fellowship at IIT Madras for the summer of 2017.	May'17
Kshitij, IIT Kharagpur 1st in intra-college round, second runner up at the inter-college round at SoE, debate conducted at Kshitij, the techno-management fest of IIT Kharagpur, jointly by Honeywell and Institute of Mechanical Engineers.	Jan'15
West Bengal Joint Entrance Examination(WBJEE) Achieved a rank of 825 which stands at 99.5 percentile in the WBJEE held in 2014.	June'14
Army Welfare Education Society (AWES) Education Scholarship Scheme for Serving Army Personnel (ESSA) was conferred by AWES for academic records.	Mar'13

Co-curricular

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- **Women in Machine Learning(WiML) Supervolunteer:** Worked with the organizers for smooth running of the WiML workshop as a supervolunteer, co-located with the NeurIPS 2021 conference.
 - **ECE Graduate Student Association (ECEGSA), Purdue University:** Won Graduate Student Appreciation prize for watercolor paintings.
 - **Women in Machine Learning(WiML) Volunteer:** Mentored a poster presentation and blogged on the conference activities in real-time as a WiML volunteer, co-located with the NeurIPS 2020 conference.
 - **Former member, IIST Robotics Society:** Conducted classes and competitions on manual robotics for beginners.
 - **Former member, IIST Debating Society:** Represented the institute at inter-college debates.
 - **Co-founding member, IIST Literary Society:** Developed a society concerned with literature and its appreciation.