

Anusri Pampari

CONTACT INFORMATION	Ph.D. Student, Department of Computer Science Stanford University	anusri@stanford.edu p.anushri25@gmail.com http://panushri25.github.io/
RESEARCH INTERESTS	Regulatory Genomics, Machine Learning: Model interpretability, Model Robustness, Natural Language Processing, Application of machine learning to health-care and biology	
EDUCATION	Stanford University Ph.D., Computer Science, 2019-Ongoing University of Illinois at Urbana-Champaign (UIUC) 3.9/4.0 M.S., Computer Science, 2016-18 Indian Institute of Technology (IIT), Bombay, India 9.1/10.0 B.Tech - M.Tech (Dual Degree), Electrical Engineering, 2011-16	
PUBLICATIONS	EMNLP 2018: Empirical Methods in Natural Language Processing “emrQA: A Large Corpus for Question Answering on Electronic Medical Records” [ACL link] <i>Authors:</i> A. Pampari , P. Raghavan (IBM Research), J. Liang (IBM Research), J. Peng (UIUC) Oral paper (acceptance rate: 10%) Awarded the Best Paper and Presentation Award at the American Medical Informatics Association’s (AMIA 2017) doctoral student consortium. Only masters student to be selected to present at the venue out of 6 graduate students. <ul style="list-style-type: none">Proposed a framework to generate a large-scale QA dataset consisting of questions, answers and logical forms using existing resources and minimal expert input.Used this framework to generate a QA dataset for Electronic Medical Records.Characterized the dataset and evaluated various heuristic and neural QA baselines. SIGIR 2019: ACM’s Special Interest Group on Information Retrieval “Help Me Search: Leveraging User-System Collaboration for Query Construction to Improve Accuracy for Difficult Queries” [ACM link] <i>Authors:</i> S. Kuzi (UIUC), A. Narwekar (UIUC), A. Pampari , C. Zhai (UIUC) <ul style="list-style-type: none">Implemented a novel framework where the search engine and the user work together to iteratively reformulate a input query. Method is shown to improve retrieval accuracy for difficult queries. Journal Submission 2020: Academic Medicine “Patient Experience Surveys Reveal Gender-Biased Descriptions of Care Providers” [under review] <i>Authors:</i> A. Pampari* , D. Haynes* (OHSU), J. Zou (Stanford), T. Greiling, (OHSU) <ul style="list-style-type: none">Computationally showed the gender bias in physician-patient interactions expressed through patient experience surveys UAI 2021: Conference on Uncertainty in Artificial Intelligence “Unsupervised Calibration under Covariate Shift” [in preperation - Arxiv link] <i>Authors:</i> A. Pampari* , S. Ermon (Stanford) <ul style="list-style-type: none">Introduced the problem of calibration under domain shift, and proposed an importance sampling based approach to address it.	
AWARDS	Siebel Scholar: \$35k awarded annually for academic excellence and demonstrated leadership to over 90 top students from 16 of the worlds leading graduate schools [Press release] [’18] Academic Awards <ul style="list-style-type: none">Awarded top reviewer (top 30%) at International Conference on Machine Learning (ICML) [’20]Stanford School of Engineering Fellowship for the first three quarters [’19]Academic Excellence Award for ranking 2nd in dept’s B.Tech - M.Tech program, IIT Bombay [’16]Undergraduate Research Award for outstanding research contribution, IIT Bombay [’15]Best Research Project Award out of 112 institute wide projects, IIT Bombay [’12] Leadership Awards <ul style="list-style-type: none">Organizational Excellence Award for leading the dept’s mentorship body, IIT Bombay [’16]Outstanding Mentorship Honor out of 200 institute student mentors, IIT Bombay [’15]	

	Travel Awards <ul style="list-style-type: none"> • Tapia Conference Travel Grant: awarded to 3 graduate students from UIUC [’18] • Google Conference Travel Grant: awarded to 8 students from graduate schools in USA [’18]
REFERENCES	Anshul Kundaje , <i>Assistant Professor, Stanford University</i> — akundaje@stanford.edu [PhD adviser] Jian Peng , <i>Assistant Professor, UIUC</i> — jianpeng@illinois.edu [MS adviser] James Zou , <i>Assistant Professor, Stanford University</i> — jamesz@stanford.edu [Research adviser] Preethi Raghavan , <i>Research Staff Member, IBM Research</i> — praghav@us.ibm.com [Mentor] Madhav Desai , <i>Professor, IIT Bombay</i> — madhav@ee.iitb.ac.in [BS adviser]
LEADERSHIP	Head of Department Academic Mentorship Program, DAMP’15 (Aug’15 - Aug’16) <ul style="list-style-type: none"> • Led a team of 20 mentors (interviewed 80 applicants) to help students facing difficulties with academic load - feedback showed 95% students showed significant grade improvements • As a part of dept. committee, involved in restructuring undergraduate curriculum • Enhanced faculty-student and counsellor-student interactions in the dept. by various initiatives • Was awarded with Organizational Excellence Award by the EE department IIT Bombay Insitute and Department Student Mentor (Aug’14 - Aug’16) <ul style="list-style-type: none"> • Provided both personal and professional mentorship to around 15 women in engineering • Was awarded with the Outstanding Mentorship Honor by IIT Bombay Technical Innovator, MIT Health Technology Camp (Jun’15 - Jul’15) <ul style="list-style-type: none"> • Worked closely with Ocularist’s at L.V Prasad Eye institute • Manufactured ‘Hydro-Pro’, a solution to help speedup prosthetic eye cleaning Robotics Club Coordinator (Aug’12 - Aug’13) <ul style="list-style-type: none"> • Part of a 8 member team which led all Robotics Club activities at the university • Organized Technical General Championships and Inter-Hostel robotic events • Imparted technical knowledge by organizing workshops, industrial visits and guest lectures
WORK EXPERIENCE	Data Shapley Optimization: Google Cloud AI , Sunnyvale, CA (Aug’19 - Sept’19) <i>Guide: James Zou: Stanford, Sercan Arik: Google AI</i> Worked on optimizing data shapley algorithm. Showed 10x speed improvements using algorithmic approximations. Question-Answering: IBM Research , Cambridge, MA (May’17 - Jul’17) <i>Guide: Preethi Raghavan - NLP Researcher, Jennifer Liang - Medical Researcher</i> Worked on question-answering and semantic parsing, extended work to a submission at EMNLP Mobile Computing for Image Processing: Rice University , Houston, Texas (May’14 - Jul’14) <i>Guides: Farinaz Koushanfar (ECE): UCSD, Azalia Mirhoseini: Google Brain</i> Explored the capability of using both mobile GPUs and CPUs (Snapdragon 800 mobile platform) to accelerate a tree matching pursuit algorithm for sparse approximation of image dictionaries.
COURSE PROJECTS	<ul style="list-style-type: none"> • Graph Convolution Networks for Protein Interface Prediction Bioinformatics Prof. J. Peng • Co-reference Resolution using RNNs Machine Learning Prof. D. Roth • Triple Scoring Task, WSDM Cup Data Mining Prof. J. Han • Indoor Localization using WiFi Computer Vision Prof. D. Hoiem • An implementation survey on variants of RNN Deep Learning Prof. S. Lazebnik
GRADUATE COURSES	Machine Learning: Machine Learning, Data Mining, Computer Vision (A+ grade), Cutting Edge Trends in Deep Learning, Bioinformatics, Advanced Information Retrieval, ML in Computational Biology (A+ grade) High Performance Computing: Advanced Computing, High Performance Scientific Computing, VLSI CAD, Microprocessors, VLSI Design, Digital Systems, Systems Design, Processor Design
TEACHING	Graduate Teaching Assistant: 5 semesters at UIUC, 2 semesters at IIT Bombay (Aug’15 - Dec’18) <ul style="list-style-type: none"> • IIT Bombay: VLSI CAD (EE677) & Digital Electronics (EE224) • UIUC: Bioinformatics (CS466), Intro. to Computing (CS101) & Discrete Mathematics (CS173) [UIUC list of teachers ranked excellent] Senior Academic Mentor , Counselling Service, IIT Bombay: 4 semesters (Aug’14 - May’16) <ul style="list-style-type: none"> • Conducted remedial classes for CS and EE courses for peers needing academic help
SERVICES	ICML 2020 reviewer, Stanford Women in AI activities volunteer