

# Anusri Pampari

---

CONTACT INFORMATION	Ph.D. Student, Department of Computer Science Stanford University	<a href="mailto:anusri@stanford.edu">anusri@stanford.edu</a> <a href="mailto:p.anushri25@gmail.com">p.anushri25@gmail.com</a> <a href="http://panushri25.github.io/">http://panushri25.github.io/</a>
RESEARCH INTERESTS	<b>Regulatory Genomics, Machine Learning:</b> Model interpretability, Model Robustness, Natural Language Processing, Application of machine learning to health-care and biology	
EDUCATION	<b>Stanford University</b> Ph.D., Computer Science, 2019-Ongoing	4.1/4.0
	<b>University of Illinois at Urbana-Champaign (UIUC)</b> M.S., Computer Science, 2016-18	3.9/4.0
	<b>Indian Institute of Technology (IIT), Bombay, India</b> B.Tech - M.Tech (Dual Degree), Electrical Engineering, 2011-16	9.1/10.0
PUBLICATIONS	<b>EMNLP 2018:</b> Empirical Methods in Natural Language Processing “emrQA: A Large Corpus for Question Answering on Electronic Medical Records” <a href="#">[ACL link]</a> <i>Authors:</i> <a href="#">A. Pampari</a> , P. Raghavan (IBM Research), J. Liang (IBM Research), J. Peng (UIUC) <b>Oral paper (acceptance rate: 10%)</b> Awarded the <b>Best Paper and Presentation Award</b> 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"><li>Proposed a framework to generate a large-scale QA dataset consisting of questions, answers and logical forms using existing resources and minimal expert input.</li><li>Used this framework to generate a QA dataset for Electronic Medical Records.</li><li>Characterized the dataset and evaluated various heuristic and neural QA baselines.</li></ul> <b>SIGIR 2019:</b> ACM’s Special Interest Group on Information Retrieval “Help Me Search: Leveraging User-System Collaboration for Query Construction to Improve Accuracy for Difficult Queries” <a href="#">[ACM link]</a> <i>Authors:</i> S. Kuzi (UIUC), A. Narwekar (UIUC), <a href="#">A. Pampari</a> , C. Zhai (UIUC) <ul style="list-style-type: none"><li>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.</li></ul> <b>Journal Submission 2020:</b> Academic Medicine “Patient Experience Surveys Reveal Gender-Biased Descriptions of Care Providers” [under review] <i>Authors:</i> <a href="#">A. Pampari*</a> , D. Haynes* (OHSU), J. Zou (Stanford), T. Greiling, (OHSU) <ul style="list-style-type: none"><li>Computationally showed the gender bias in physician-patient interactions expressed through patient experience surveys</li></ul> <b>UAI 2021:</b> Conference on Uncertainty in Artificial Intelligence “Unsupervised Calibration under Covariate Shift” <a href="#">[in preperation - Arxiv link]</a> <i>Authors:</i> <a href="#">A. Pampari*</a> , S. Ermon (Stanford) <ul style="list-style-type: none"><li>Introduced the problem of calibration under domain shift, and proposed an importance sampling based approach to address it.</li></ul>	
AWARDS	<b>Siebel Scholar:</b> \$35k awarded annually for academic excellence and demonstrated leadership to over 90 top students from 16 of the worlds leading graduate schools <a href="#">[Press release]</a> <i>[’18]</i> <b>Academic Awards</b> <ul style="list-style-type: none"><li>Awarded top reviewer (top 30%) at International Conference on Machine Learning (ICML) <i>[’20]</i></li><li>Stanford School of Engineering Fellowship for the first three quarters <i>[’19]</i></li><li>Academic Excellence Award for ranking 2nd in dept’s B.Tech - M.Tech program, IIT Bombay <i>[’16]</i></li><li>Undergraduate Research Award for outstanding research contribution, IIT Bombay <i>[’15]</i></li><li>Best Research Project Award out of 112 institute wide projects, IIT Bombay <i>[’12]</i></li></ul> <b>Leadership Awards</b> <ul style="list-style-type: none"><li>Organizational Excellence Award for leading the dept’s mentorship body, IIT Bombay <i>[’16]</i></li><li>Outstanding Mentorship Honor out of 200 institute student mentors, IIT Bombay <i>[’15]</i></li></ul>	

	<b>Travel Awards</b> <ul style="list-style-type: none"> <li>• Tapia Conference Travel Grant: awarded to 3 graduate students from UIUC [’18]</li> <li>• Google Conference Travel Grant: awarded to 8 students from graduate schools in USA [’18]</li> </ul>
REFERENCES	<b>Anshul Kundaje</b> , <i>Assistant Professor, Stanford University</i> — akundaje@stanford.edu [PhD adviser] <b>Jian Peng</b> , <i>Assistant Professor, UIUC</i> — jianpeng@illinois.edu [MS adviser] <b>James Zou</b> , <i>Assistant Professor, Stanford University</i> — jamesz@stanford.edu [Research adviser] <b>Preethi Raghavan</b> , <i>Research Staff Member, IBM Research</i> — praghav@us.ibm.com [Mentor] <b>Madhav Desai</b> , <i>Professor, IIT Bombay</i> — madhav@ee.iitb.ac.in [BS adviser]
LEADERSHIP	<b>Head of Department Academic Mentorship Program, DAMP’15</b> (Aug’15 - Aug’16) <ul style="list-style-type: none"> <li>• 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</li> <li>• As a part of dept. committee, involved in restructuring undergraduate curriculum</li> <li>• Enhanced faculty-student and counsellor-student interactions in the dept. by various initiatives</li> <li>• Was awarded with Organizational Excellence Award by the EE department IIT Bombay</li> </ul> <b>Insitute and Department Student Mentor</b> (Aug’14 - Aug’16) <ul style="list-style-type: none"> <li>• Provided both personal and professional mentorship to around 15 women in engineering</li> <li>• Was awarded with the Outstanding Mentorship Honor by IIT Bombay</li> </ul> <b>Technical Innovator, MIT Health Technology Camp</b> (Jun’15 - Jul’15) <ul style="list-style-type: none"> <li>• Worked closely with Ocularist’s at L.V Prasad Eye institute</li> <li>• Manufactured ‘Hydro-Pro’, a solution to help speedup prosthetic eye cleaning</li> </ul> <b>Robotics Club Coordinator</b> (Aug’12 - Aug’13) <ul style="list-style-type: none"> <li>• Part of a 8 member team which led all Robotics Club activities at the university</li> <li>• Organized Technical General Championships and Inter-Hostel robotic events</li> <li>• Imparted technical knowledge by organizing workshops, industrial visits and guest lectures</li> </ul>
WORK EXPERIENCE	<b>Data Shapley Optimization: Google Cloud AI</b> , 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. <b>Question-Answering: IBM Research</b> , 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 <b>Mobile Computing for Image Processing: Rice University</b> , 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"> <li>• Graph Convolution Networks for Protein Interface Prediction   Bioinformatics   Prof. J. Peng</li> <li>• Co-reference Resolution using RNNs   Machine Learning   Prof. D. Roth</li> <li>• Triple Scoring Task, WSDM Cup   Data Mining   Prof. J. Han</li> <li>• Indoor Localization using WiFi   Computer Vision   Prof. D. Hoiem</li> <li>• An implementation survey on variants of RNN   Deep Learning   Prof. S. Lazebnik</li> </ul>
GRADUATE COURSES	<b>Machine Learning:</b> Machine Learning, Data Mining, Computer Vision ( <b>A+ grade</b> ), Cutting Edge Trends in Deep Learning, Bioinformatics, Advanced Information Retrieval, ML in Computational Biology ( <b>A+ grade</b> ) <b>High Performance Computing:</b> Advanced Computing, High Performance Scientific Computing, VLSI CAD, Microprocessors, VLSI Design, Digital Systems, Systems Design, Processor Design
TEACHING	<b>Graduate Teaching Assistant:</b> 5 semesters at UIUC, 2 semesters at IIT Bombay (Aug’15 - Dec’18) <ul style="list-style-type: none"> <li>• IIT Bombay: VLSI CAD (EE677) &amp; Digital Electronics (EE224)</li> <li>• UIUC: Bioinformatics (CS466), Intro. to Computing (CS101) &amp; Discrete Mathematics (CS173) [UIUC list of teachers ranked excellent]</li> </ul> <b>Senior Academic Mentor</b> , Counselling Service, IIT Bombay: 4 semesters (Aug’14 - May’16) <ul style="list-style-type: none"> <li>• Conducted remedial classes for CS and EE courses for peers needing academic help</li> </ul>
SERVICES	ICML 2020 reviewer, Mentor at Stanford CS undergraduate mentoring program