Ashwin Paranjape

CONTACT INFORMATION

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INTERESTS

NLP, Latent Structure, Dialog, Deep Learning

EDUCATION

Stanford University,Stanford, CA (2016 - Ongoing)
PhD *in CS advised by Prof. Christopher Manning*

Stanford University,Stanford, CA (2014 - 2016)
Masters *in CS with depth in AI* 3.76/4

Indian Institute of Technology Bombay, Mumbai, India (2010 - 2014)
Bachelors *(Honors) in CS and Minor in EE* 9.69/10 (Ranked 2^{nd})

RESEARCH EXPERIENCE

Incorporating structure in models of language | *PhD @ Stanford* Christopher Manning [17 - now]
Improved language modelling perplexity on PTB by jointly training for syntactic dependencies
Working on methods to induce structure jointly in an unsupervised manner from large text

Knowledge Base Population | *RA @ NLP Group, CS Stanford* *Christopher Manning* [16-17]
Population and evaluation of knowledge bases with facts extracted from text
Part of the winning team in in TAC-KBP shared task for 2016, 2017
Devised methods and online tools for on-demand evaluation [EMNLP 2017]

Motifs in Temporal Networks | *RA @ SNAP, CS Stanford* Jure Leskovec [14-16]
Devised new algorithms to temporal motifs efficiently [WSDM 2017]
Used the algorithm to highlight patterns in a variety of temporal datasets

Automated Link Prediction | *RA @ SNAP, CS Stanford* Jure Leskovec [14-16]
Predicting missing links between web pages by learning from human navigational patterns
Used actively collected paths [WWW 2015] and passively collected server logs [WSDM 2016]

Maximizing Recall for Fixed Precision | *UG Thesis @ IIT Bombay* Sunita Sarawagi [13-14]
Formulated novel convex and non-convex algorithms and validated results on large scale datasets

Deep Learning For Graphics | *Internship @ MSR Redmond* Brian Guenter [Summer '13]
Designed and implemented neural nets with convolution layer and domain specific objectives

Formal Methods | Research Internship @ *IST Austria* Prof. K. Chatterjee [Summer '12]
Realizing Unrealizable specifications using edit distances

PUBLICATIONS

Arun Chaganty*, *Ashwin Paranjape**, Percy Liang and Christopher Manning (EMNLP 2017)
Importance sampling for unbiased on-demand evaluation of knowledge base population

*Ashwin Paranjape**, Austin Benson* and Jure Leskovec (WSDM 2017)
Motifs in Temporal Networks

*Ashwin Paranjape**, Robert West*, Jure Leskovec and Leila Zia (WSDM 2016)
Improving Website Hyperlink Structure Using Server Logs

Robert West, *Ashwin Paranjape*, and Jure Leskovec: (WWW 2015)
Mining Missing Hyperlinks from Human Navigation Traces: A Case Study of Wikipedia

Devendra S. Chaplot, Pushpak Bhattacharya and *Ashwin Paranjape*, (AAAI 2015)
Unsupervised Word Sense Disambiguation Using Markov Random Field and Dependency Parser

* Equal contribution

PRESENTATIONS

WSDM 2016 | WeCNLP 2019 | BayLearn 2019

ACHIEVEMENTS

- Recieved **Narotam Sekhsaria Postgraduate Scholarship 2014** *(12 out of 20000 applicants)*
- **All India Rank 81** in IIT-Joint Entrance Examination (2010) from around 450,000 entrants
- Awarded **Gold Medal in Indian National Physics Olympiad** 2010 (top 35 from all over India) and attended **Orientation cum Selection Camp (OCSC) for International Physics Olympiad**.
- **All India Rank 3** in National Science (2008), **4** in Cyber (2010), **7** in Mathematics (2010) Olympiads

KEY ACADEMIC PROJECTS

Deanonymizing Quora Answers	DeepNLP(CS224d)
Convolutional Networks in Scene Labelling	CNN for visual recognition (CS231n)
Neuromorphic Engineering: Synchrony in Neurons	Bipin Rajendran
Accelerated Proximal Gradient Method for large-scale convex optimization	Saketh Nath
Quantum Computer Simulator	Amitabha Sanyal
Lazy Pointer Analysis	Uday Khedker

REVIEWER

TKDE 2018 | AAAI 2018

POSITIONS OF RESPONSIBILITY

Manager, Technovation, IIT Bombay 2012 - 2013

*Awarded **IIT Bombay Institute Organisational Color 2013** (awarded to 14 students out of 9000).*

Institute Student Mentor, IIT Bombay 2013 - 2014

ADVANCED COURSES

Machine Learning | Probabilistic Graphical Models | Convex and Linear Optimization
Natural Language Processing | Deep Learning for NLP | Computer Vision | CNNs for Vision
Social, Information Networks | Experimental Robotics
Complexity Analysis | Randomized Algorithms | Neuromorphic Engineering

PROGRAMMING PROFICIENCY

C | C++ | Rust | C# | Java | Python | MATLAB | Javascript | PHP | HTML | LaTeX
Django | Flask | nginx | Jquery | Bootstrap | Scrapy | Hadoop | Pig | Spark
Tensorflow | PyTorch | Keras | Theano | Numpy-Scipy | Weka | Boost |

TEACHING

NLP (Stanford CS224N) | Operating Systems and Lab | Computer Networks and Lab | Modern Physics | Introductory CS