Ankit Goyal

PhD Student, Princeton University
☎ *7347570587*
✉ *agoyal@princeton.edu*
🖥 *https://imankgoyal.github.io/*

Education

2018-Present **Ph.D. Program in Computer Science**, *Princeton University*.
Advisor: Jia Deng

2016-18 **M.S. in Computer Science and Engineering**, *University of Michigan*.
GPA: 3.97/4.0, Track: Artificial Intelligence

2012-16 **B.Tech. in Electrical Engineering**, *Indian Institute of Technology (IIT) Kanpur*.
CPI: 9.8/10.0, Minor: Computer Science

Publications

2021 **Anonymous Submission**.
A Goyal, H Law, B Liu, A Newell, J Deng
International Conference on Learning Representation (ICLR) *Under Review*

2020 **Rel3D: A Minimally Contrastive Benchmark for Grounding Spatial Relations in 3D**.
A Goyal, K Yang, D Yang, J Deng
Neural Information Processing Systems (NeuRIPS), *Spotlight (Top 4% of submitted papers)*

2020 **PackIt: A Virtual Environment for Geometric Planning**.
A Goyal, J Deng
International Conference in Machine Learning (ICML)

2019 **Semantic Relation Detection Between Construction Entities To Support Safe Human-Robot Collaboration in Construction**.
D Kim, **A Goyal**, A Newell, S Lee, J Deng, V Kamat
ASCE International Conference on Computing in Civil Engineering (i3CE)

2018 **Think Visually: Question Answering through Virtual Imagery**.
A Goyal, J Wang, J Deng
Annual Meeting of the Association of Computational Linguistics (ACL)

2017 **ProtoNN: Compressed and Accurate kNN for Resource-scarce Devices**.
C Gupta, AS Suggala, **A Goyal**, HV Simhadri, B Paranjape, A Kumar, S Goyal, R Udupa, M Varma, P Jain
International Conference in Machine Learning (ICML)

2016 **A Multimodal Mixture-of-Experts Model for Dynamic Emotion Prediction in Movies**.
A Goyal, N Kumar, T Guha, SS Narayanan
IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)

2015 **Object Matching using Speeded Up Robust Features**.
NK Verma, **A Goyal**, AH Vardhan, RK Sevakula, A Salour
Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES)

2015 **Template Matching for Inventory Management using Fuzzy Histogram and Spatial Filters**.
NK Verma, **A Goyal**, A Chaman, RK Sevakula and A Salour
IEEE Conference on Industrial Electronics and Applications (ICIEA)

Work Experience

Summer 2016   **Research Intern**, *Microsoft Research (MSR)*.
Mentor: Prateek Jain
Developed ML models for IoT devices. Proposed ProtoNN, a model inspired from K-Nearest Neighbour (KNN) model that could fit in devices with only 2kB RAM and still produce accurate predictions.

Summer 2015   **Research Intern**, *University of Southern California (USC)*.
Mentor: Shrikanth S. Narayanan
Developed models for emotion prediction in movies. Proposed a mixture-of-experts model that dynamically combines audio-visual cues for predicting evoked emotions in movies.

Service

2020-21   **Reviewer**.
- **2021**: ICLR
- **2020**: ECCV, TPAMI

2013-15   **Counselling Service**, *IIT Kanpur*.
- **Assistant Coordinator**: Responsible for managing sensitive situations in the undergraduate community and organizing week-long orientation for over 800 freshmen
- **Academic Mentor**: Mentored students struggling academically.
- **Student Guide**: Ensured smooth induction of 6 freshmen into the college environment.

Teaching Experience

Fall 2019   **COS529 Advanced Computer Vision**, *Princeton University*.
Graduate Student Instructor

Fall 2018   **COS429 Computer Vision**, *Princeton University*.
Head Teaching Assistant

Fall 2017, Winter 2018   **EECS442 Computer Vision**, *University of Michigan*.
Graduate Student Instructor

Awards and Achievements

2016   **Sridhar Memorial Prize**, *IIT Kanpur*.
Awarded to the best student in the Department of Electrical Engineering.

2015   **Viterbi-India Scholarship**, *USC and Indo-US Science and Technology Forum (IUSSTF)*.
Selected for the prestigious Viteri-India Program to conduct research in USC.

2013-2015   **Academic Excellence Award**, *IIT Kanpur*.
Awarded for distinctive academic performance for 3 consecutive years.