

Ankit Goyal

PhD Student, Princeton University

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📄 <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

- 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 Viterbi-India Program to conduct research in USC.
- 2013-2015 **Academic Excellence Award, IIT Kanpur.**
Awarded for distinctive academic performance for 3 consecutive years.