

KUNAL PRATAP SINGH

[Google Scholar](#) | kunals@allenai.org | [Webpage](#)

EDUCATION

Indian Institute of Technology, Roorkee 2016-2020
Bachelor of Technology, Department of Electrical Engineering

RESEARCH EXPERIENCE

Allen Institute for Artificial Intelligence PRIOR
Predoctoral Young Investigator May 2021 - Present
Advisors: [Prof. Aniruddha Kembhavi](#), [Prof. Roozbeh Mottaghi](#)

Computer Vision Lab GIST, South Korea
Research Assistant May 2020 - April 2021
Advisors: [Prof. Jonghyun Choi](#), [Prof. Roozbeh Mottaghi](#)

Computer Vision Lab GIST, South Korea
Research Intern May 2019 - November 2019
Advisor: [Prof. Jonghyun Choi](#)

Video Analytics Lab, Department of CDS Indian Institute of Science, India
Research Intern November 2018 - January 2019
Advisor: [Prof. R. Venkatesh Babu](#)

PUBLICATIONS

A General Purpose Supervisory Signal for Embodied Agents. [\[paper\]](#)
Kunal Pratap Singh, Jordi Salvador, Luca Weihs, Aniruddha Kembhavi
Under submission at CVPR, 2023.

Ask4Help : Learning to Leverage an Expert for Embodied Tasks. [\[paper\]](#)[\[code\]](#)
Kunal Pratap Singh, Luca Weihs, Alvaro Herrasti, Jonghyun Choi, Aniruddha Kembhavi, Roozbeh Mottaghi
Advances in Neural Information Processing Systems (NeurIPS), 2022.

Factorizing Policy and Perception for Interactive Instruction Following. [\[paper\]](#)[\[code\]](#)
Kunal Pratap Singh*, Suvaansh Bhambri*, Byeonghwi Kim*, Roozbeh Mottaghi, Jonghyun Choi
International Conference on Computer Vision (ICCV), 2021.

Learning Architectures for Binary Networks. [\[paper\]](#)[\[code\]](#)
Kunal Pratap Singh*, Dahyun Kim*, Jonghyun Choi
European Conference on Computer Vision (ECCV), 2020.

A Fast, Scalable and Reliable Deghosting Method for Extreme Exposure Fusion. [\[paper\]](#)[\[code\]](#)
K. Ram Prabhakar*, Rajat Arora*, Adhitya Swaminathan, Kunal Pratap Singh, and R. Venkatesh Babu
International Conference on Computational Photography (ICCP), 2019.

TALKS

- Embodied Vision, Actions and Language Workshop ([EVAL](#)), ECCV 2020.
- Invited talk on How to get started in Research. Organized by Student Mentorship Program, IIT Roorkee.

AWARDS

- Bronze Prize, Samsung Humantech Awards, 2020 (for ECCV work on binary neural networks).
- Awarded the National Talent Search Examination (NTSE) Scholarship for high school and undergraduate studies.
- Awarded the Kishore Vaigyanik Protsahan Yojana (KVPY) Fellowship, which included a fully-funded opportunity to pursue a basic sciences degree from the Indian Institute of Science (IISc), India.

TECHNICAL SKILLS

- Languages and Toolkits: Python, Pytorch, Tensorflow, C++, Docker, Git

REFERENCES

Roozbeh Mottaghi

Research Scientist Manager

FAIR, Meta AI

Affiliate Associate Professor

Paul G. Allen School of Computer Science & Engineering

University of Washington

Contact : roozbehm@cs.washington.edu

Aniruddha Kembhavi

Director of Computer Vision

Allen Institute for AI (AI2)

Affiliate Associate Professor

Paul G. Allen School of Computer Science & Engineering

University of Washington

Contact : anik@allenai.org

Jonghyun Choi

Associate Professor

Vision and Learning Lab

Yonsei University, Seoul, South Korea

Contact : jc@yonsei.ac.kr