

Himanshu Gaurav Singh

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EDUCATION

2023-ongoing	PhD, University of California, Berkeley	(4.0/4.0)
	<i>Co-Advisors: Prof. Pieter Abbeel, Prof. Jitendra Malik</i>	
2019-23	Bachelors in Computer Science at IIT, Delhi	(GPA: 9.96/10, Institute Rank: 2)
2018-19	Senior High School(CBSE)	(99.0%)

RESEARCH

- [1] Daman Arora*, **Himanshu Gaurav Singh***, and Mausam. “Have LLMs Advanced Enough? A Challenging Problem Solving Benchmark For Large Language Models”. In: *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing*. Singapore: Association for Computational Linguistics, Dec. 2023, pp. 7527–7543. URL: <https://aclanthology.org/2023.emnlp-main.468>.
- [2] **Himanshu Gaurav Singh***, Antonio Loquercio*, Carmelo Sferrazza, Jane Wu, Haozhi Qi, Pieter Abbeel, and Jitendra Malik. *Hand-Object Interaction Pretraining from Videos. ICRA 2025*. URL: <https://arxiv.org/abs/2409.08273>.
- [3] Namasivayam Kalithasan*, **Himanshu Gaurav Singh***, Vishal Bindal*, Arnav Tuli, Vishwajeet Agrawal, Rahul Jain, Parag Singla, and Rohan Paul. “Learning Neuro-symbolic Programs for Language-Guided Robotic Manipulation”. In: *NeurIPS’ 22 Workshop on Neuro Causal and Symbolic AI (nCSI)*. Full paper accepted at ICRA’23. URL: <http://arxiv.org/abs/2211.06652>.

AWARDS

- Received **NVIDIA Academic Grant** for robotics research amounting to 12,500 hours of GPU credits, with PI Jitendra Malik.
- **All India Rank 2 in JEE-Advanced, 2019** among **2 million candidates nationwide**.
- Received the **IIT Delhi Semester Merit Award**(top 7%) in **all semesters**.
- Selected among 50 students worldwide to attend the **Cornell Maryland Max Planck Research Summer School, 2022** held at **Max Planck Institute for Software Systems**.
- Received **Aditya Birla Scholarship, 2019**, among 16 students of the engineering stream nationwide.
- Received **Bronze medal** at the **Asia Pacific Mathematics Olympiad, 2018**.
- **Ranked 4th** in KVPY(SA),2018: science examination conducted by the **Indian Institute Of Science, Bangalore** among **1,00,000 candidates nationwide**.

WORK EXPERIENCE

- Quantitative Researcher Intern** at *Tower Research Capital* June 2022 - Aug 2022
- Explored deep learning models to capture the movement of stock prices over time intervals longer than those dealt by conventional HFT strategies.
- Undergraduate Researcher** at *Robotics and Embodied-AI Lab, IIT Delhi* October 2021 - June 2023
- Explored neuro-symbolic architectures for multi-step object manipulation and task planning with the goal of strong combinatorial generalization on task complexity. Full paper accepted at **ICRA’23**.