

PHD STUDENT · COMPUTER SCIENCE (ROBOTICS)

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University of Minnesota, Twin Cities		Minneapolis, MN, USA
DOCTOR OF PHIL	LOSOPHY IN COMPUTER SCIENCE (ROBOTICS) Karthik Desingh	08/2023 - presen
Jniversity of M	lichigan, Ann Arbor	Ann Arbor, MI, USA
MASTER OF SCIENT (7 GPA: 4.0/4.0 (7	nce in Electrical & Computer Engineering Top: 10 %)	09/2021 - 04/202.
-	lichigan, Ann Arbor	Ann Arbor, MI, US
• GPA: 3.74 (Top	CIENCE IN COMPUTER ENGINEERING D: 16 %) ject advisor: Jonathan Beaumont	09/2019 - 04/202
	Tong University	Shanghai, Chind
BACHELOR OF SCIENCE IN ELECTRICAL & COMPUTER ENGINEERING		09/2017 - 08/202
 GPA: 3.72 (Top 		
· Capstone proj	ject advisor: Chenbin Ma	
Professiona 2023-2025 G 2024 S	ject advisor: Chenbin Ma al Experience Graduate Teaching Assistant, Computer Science & Engineering Department, University of Minnesota, Twin Cities Graduate Research Assistant, Electrical & Computer Engineering Department, University of Minnesota, Twin Cities	•
Professiona 2023-2025 G 2024 Si 2022-2023 G 2021	al Experience	niversity of Michigan, Ann Arbo
Professiona 2023-2025 G 2024 Si 2022-2023 G 2021 G	Graduate Teaching Assistant, Computer Science & Engineering Department, Univerment 2024 CS&E GAGE Fellowship, University of Minnesota, Twin Cities Graduate Research Assistant, Electrical & Computer Engineering Department, University of Course EECS 478: Logical Circuits, Electrical & Computer Engineering	niversity of Michigan, Ann Arbo
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* presenting author; * mentored undergraduate

INVITED TALKS

Autumn 2025. Fundamental topics in Computer Vision. Guest Lecture, CSCI 5561, Computer Vision, University of Minnesota, Twin Cities.

Spring 2025. SuperQ-GRASP: Superquadrics-based Grasp Pose Estimation on Larger Objects for Mobile-Manipulation,. Guest Lecture, CSCI 5551, Introduction to Intelligent Robotic Systems, University of Minnesota, Twin Cities.

Autumn 2024. *Grasp Pose Esti*. Guest Lecture, CSCI 5980, Deep Rob: Deep Learning for Robotic Manipulation, University of Minnesota, Twin Cities

CONTRIBUTED PRESENTATIONS

Xun Tu, Karthik Desingh. 2025. SuperQ-GRASP: Superquadrics-based Grasp Pose Estimation on Larger Objects for Mobile-Manipulation, ICRA 2025, Atlanta, Georgia, USA.

Autumn 2025 Spring 2025 Spring 2025 Spring 2024 CSCI 5551: Introduction to Intelligent Robotic Systems, Teaching Assistant CSCI 5551: Introduction to Intelligent Robotic Systems, Teaching Assistant CSCI 5551: Introduction to Intelligent Robotic Systems, Teaching Assistant Mentoring 2025 present Zhuoli Xie, Master of Computer Science, University of Minnesota, Twin Cities Outreach & Professional Development

SERVICE AND OUTREACH

08/2024	Welcome Session for New Graduate Students in Computer Science, Volunteer
09/2018 -	
08/2019	Honor Council of UM-SJTU Joint Institute in Shanghai Jiao Tong University, Investigator

Minneapolis, MN, USA Shanghai, China

DEVELOPMENT

Beyond Pick and Place – Unifying Learning-Based and Model-Based Approaches for Contact-Rich Manipulation Attend the workshop as an audience to study the recent progress in robotic manipulation policy learning, especially for the mobile manipulation tasks

Beyond the Lab: Robust Planning and Control in Real World Scenarios Attend the workshop as an audience to study the recent progress in real-world robotic manipulation tasks

PEER REVIEW

1 conference paper reviewed for CoRL (Conference on Robotics Learning)

1 conference paper reviewed for RSS (Robotics: Science and Systems)

1 journal paper reviewed for Science Robotics:

1 conference paper reviewed for ICRA (Internationa Conference on Robotics and Automation)

PROFESSIONAL MEMBERSHIPS

IEEE Membership (student)
IEEE Robotics and Automation Society Membership