## Duc M. Nguyen

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## Education

Education	
George Mason University, Ph.D. in Computer Science	Aug 2022 – Now
George Mason University, M.S. in Computer Science	Aug 2022 – Dec 2024
Miami University, B.S. in Computer Science	Aug 2018 – May 2022
Minor in Statistics	GPA: 3.75/4.0
Experience	
Technical Lead, Google Developer Group – Fairfax, VA	Oct 2024 – Now
• Plan yearly technical events for Google at George Mason University.	
• Lead workshops and projects for GMU students to learn Google Cloud Technology.	
Research Assistant, RobotiXX Lab – Fairfax, VA	Aug 2022 – Now
• Build Task and Motion Planning pipeline for household robots.	
• Implement navigation and manipulation interface for mobile manipulators like Fetch a	and Spot using ROS.
Research Assistant, Department of Electrical Engineering – Oxford, OH	Aug 2020 – Dec 2021
• Implemented Deep Reinforcement Learning to optimally control Unmanned Aerial Veh	nicles (UAVs) in group.
• Developed a Python simulation enabling feedback from ground-based users for UAV sy	/stem.
Research Assistant, DACHB Lab – Oxford, OH	May 2020 – Aug 2020
• Achieved 90% accuracy in classifying suicide attempts and ideations using machine lea	arning models.
• Mapped 361 suicide-related concepts with 946 interrelationships with NetworkX.	
• Built an interactive graph with JavaScript and Python to visualize causal relationships.	
Publications	
Anticipatory Task and Motion Planning [PDF] Roshan Dhakal, <i>Duc M. Nguyen</i> , Tom Silver, Xuesu Xiao, Gregory J. Stein	
Human Uncertainty-Aware MPC for Enhanced Human-Robot Collaborative Manipul Al Jaber Mahmud, <i>Duc M. Nguyen</i> , Filipe Veiga, Xuesu Xiao, Xuan Wang IEEE 7th International Conference on Industrial Cyber-Physical Systems (ICPS), 2024	ation [PDF]
Toward Human-Like Social Robot Navigation: A Large-Scale, Multi-Modal, Social H Dataset [PDF]	uman Navigation
<i>Duc M. Nguyen</i> , Mohammad Nazeri, Amirrera Payandeh, Aniket Datar, Xuesu Xiao IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2023	
<b>Responsive Regulation of Dynamic UAV Communication Networks Based on Deep R</b> R. Zhang, <i>Duc M. Nguyen</i> , M. Wang, L. X. Cai, X. Shen Broadband Communications, Computing, and Control for Ubiquitous Intelligence. Wirele	-
Mapping the Complexity of Suicide by Combining Participatory Modeling and Netw Phillipe J. Giabbanelli, Michael C. Galgoczy, <i>Duc M. Nguyen</i> , Romain Foy, Ketra L. Rice, Margaret M. Brown, Christopher R. Harper IEEE/ACM International Conference on Advances in Social Networks Analysis and Minin	<b>ork Science</b> [PDF] Nisha Nataraj,
Awards and Services	

## Finalist for Best Paper Award

AAAI Fall Symposium Artificial Intelligence for Human-Robot Interaction (AI-HRI), 2023

Journal/Conference Reviewer: ICRA, IEEE RA-L, AAAI AI-HRI, American Control Conference.