

Easop Lee

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| CONTACT INFORMATION | Office: Room 134, North Building. Durham, NC, USA | easop.lee@duke.edu |
| RESEARCH INTERESTS | My research interests lie at the intersection between robotics and machine learning. I am currently tackling multi-robot multi-task manipulation tasks through learning-based methods. Broadly, I am interested in developing human-centered robots that can intelligently interact with the world. | |
| EDUCATION | Ph.D. in Electrical and Computer Engineering Duke University, Durham, NC | August 2023 - Present |
| | <ul style="list-style-type: none">• Advisor: Prof. Boyuan Chen• Coursework: <i>Intro to Robotics, Robot Learning</i> | |
| | B.S.E. in Electrical and Computer Engineering , GPA: 3.80/4.00 Duke University, Durham, NC | May 2023 |
| | <ul style="list-style-type: none">• Double major in Computer Science and Minor in Physics• Coursework: <i>Deep Learning, Advanced Topics in Deep Learning, Machine Learning and Neural Nets, Digital Systems, Algorithms, Quantum Mechanics, Quantum Information Science</i> | |
| RESEARCH EXPERIENCE | General Robotics Lab, Duke University , Durham, NC, USA <i>Graduate researcher</i> | May 2023 - present |
| | <ul style="list-style-type: none">• Developing a behavior cloning policy with scene-self decoupling method tailored for multi-task multi-robot scenarios, aiming for a large-scale pre-trained manipulation policy. | |
| | <i>Undergraduate researcher</i> | Sep 2022 - April 2023 |
| | <ul style="list-style-type: none">• Designed an effective training strategy for visual self-model for precise kinematics adaptation in high degree of freedom robots. Results were resented in two department wide poster presentation sessions. | |
| | +DataScience Research Program, Duke AI Health , Durham, NC, USA <i>Student Research Affiliate</i> | Jan 2022 - Dec 2022 |
| | <ul style="list-style-type: none">• Developed a predictive model using deep learning for the segmentation of malignancy in skin images. Mentored by Duke ECE faculty, Dr. Ricardo Henao, and presented in department wide poster presentation session. | |
| PUBLICATIONS | [1] Pingcheng Jian, Easop Lee , Zachery Bell, Michael M. Zavlanos, Boyuan Chen. Policy Stitching: Learning Transferable Robot Policies. (CoRL 2023). | |
| PRESENTATIONS | <ul style="list-style-type: none">• Easop Lee. Fall 2022 Research Poster Session for “Visual World Modeling with Robot Interaction”, Duke University, Electrical and Computer Engineering Department, December 2022. (<i>Poster</i>)• Easop Lee, Ashka Shah, Mohammed Elmzoudi. CS+ Summer Research Symposium and Poster Session for “3D Bone Models from Pelvic MR Imaging”, Duke University, Computer Science Department, August 2022. (<i>Oral and Poster</i>)• Easop Lee. Spring 2022 Research Poster Session for “Automated Skin Lesion Segmentation with CNNs”, Duke University, Electrical and Computer Engineering Department, April 2022. (<i>Poster</i>) | |

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| TEACHING EXPERIENCE | <p>Pratt School of Engineering, Duke University, Durham, NC, USA</p> <p><i>Undergraduate Teaching Assistant</i> January 2022 - May 2023</p> <ul style="list-style-type: none"> • EGR103L <i>Computational Methods in Engineering</i> • EGR224L <i>Electrical Fundamentals of Mechatronics</i> • ECE270L <i>Fields and Waves</i> <p>Mathematics Department, Duke University, Durham, NC, USA</p> <p><i>Undergraduate Laboratory Co-Leader</i> January 2022 - December 2022</p> <ul style="list-style-type: none"> • MATH111L <i>Laboratory Calculus I</i> <p><i>Math Help Room Tutor</i> January 2022 - December 2022</p> <p>Held weekly office hours for walk-in student tutoring for 5 different calculus courses offered at Duke.</p> |
| EMPLOYMENT | <p>CS+ Internship, Duke University, Durham, NC, USA</p> <p><i>Summer undergraduate research intern</i> May 2022 - August 2022</p> <p>Completed a medical imaging related project with three other undergraduates at the Mazurowski Lab:</p> <ul style="list-style-type: none"> • Evaluated and applied computer vision models to 3D musculoskeletal MRI scans, and created an interactive 3D model from a stack of 2D segmentation predictions. • Developed a website that automatically outputs an interactive 3D bone model from a user-inputted 3D MRI scan. |
| HONORS AND AWARDS | <p>ECE Department Conference Travel Fellowship, Duke University 2023</p> <p>All ACC Academic 2020, 2022</p> |
| COMPUTER SKILLS | <ul style="list-style-type: none"> • Programming: Python, MATLAB, Java, C, MIPS. • Robotics: Pybullet, OpenAI Gym, Mujoco, ROS. • Web Development: Typescript, Node.js, Vue.js, HTML, CSS, Flask, MongoDB. • Applications: L^AT_EX, Blender, Git. |
| EXTRA- CURRICULAR INVOLVEMENT | <p>Duke University Varsity Women's Swimming and Diving Team August 2018 - May 2023</p> |