Irmak Guzey

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Education

P.h.D in Computer Science 09/2024 –
Courant Institute of the Mathematical Sciences, New York University · GPA: N/A
CILVR Lab (Computational Intelligence, Learning, Vision, and Robotics)
Advised by: Lerrel Pinto, Interested in Imitation Learning for Embodied Agents

M.S. in Computer Science 09/2021 – 05/2023
Courant Institute of the Mathematical Sciences, New York University · GPA: 3.9/4.0
Research Interests: Robot Learning, Imitation Learning, Representation Learning, Reinforcement Learning

B.E. in Computer Engineering 09/2016 – 05/2020
Bogazici University, Istanbul · GPA: 3.7/4.0
Relevant Coursework: Machine Learning, Robot Learning, Artificial Intelligence, Operating Systems

Honors and Awards

NYU Henry M. MacCracken Doctoral Fellowship 2024 – 2029
Fulbright Scholarship, Recipient of $150.000,00. 2021 – 2023
NYU Graduate School of Arts and Sciences Best Master's Thesis Award 2023
NYU Graduate School of Arts and Sciences Tuition Scholarship, Recipient of $70.000,00. 2021 – 2023
Higher Education Quality Council of Turkey, Student Evaluator 2018

Publications

1. **I. Guzey**, Y. Dai, G, Savva, R. Bhirangi, L. Pinto. *"HuDOR: Bridging the Human to Robot Dexterity Gap through Object-Oriented Rewards"*. Project Website. (Under Review)
2. **I. Guzey**, Y. Dai, B. Evans, S. Chintala, L. Pinto. *"See to Touch: Learning Tactile Dexterity through Visual Incentives"*. Internation Conference on Robotics and Automation (ICRA) 2024. (Accepted)
3. **I. Guzey**, B. Evans, S. Chintala, L. Pinto. *"Dexterity from Touch: Self-Supervised Pre-Training of Tactile Representations with Robotic Play"*. Conference on Robot Learning (CoRL) 2023. (Accepted)
4. S. P. Arunachalam, **I. Guzey**, S. Chintala, L. Pinto. *"Holo-Dex: Teaching Dexterity with Immersive Mixed Reality"*. International Conference on Robotics and Automation (ICRA) 2023. (Accepted)
5. **I. Guzey**, A. E. Tekden, E. Samur, E. Ugur. *"Human Motion Prediction with Graph Neural Networks"*. Long Term Human Prediction Workshop(LHMP) of ICRA, 2020. (Accepted)

Employment

Computer Engineer, DOF Robotics 11/2020 – 08/2021
Machine Learning Engineering Intern, Google (Youtube) 06/2020 – 11/2020
Software Engineering Intern, X 06/2019 – 09/2019
Software Engineering Intern, Google 06/2018 – 09/2018

Teaching

Grader, Introduction to Machine Learning (CSCI-UA 473), New York University 2023
Teaching Assistant, Introduction to Computer Vision (DS-GA 3001), New York University 2022

Advising

Georgy Savva (M.S. Student in CILVR) 2024 –
Yinlong Dai (B.S. Student in CILVR) 2022 – 2024

Professional Service

Volentary Endeavours

Trainer & Organizer, *Women's Advocacy*, Turkey 2019 – 2021
English Theatre Club, President & Director, *Kadikoy Anadolu Highschool* 2012 – 2015

Skills

Training and Deploying Robot Policies on Dexterous Robot Hands *(Pytorch, ROS, Hydra, Numpy)*
Tactile Sensor Integration for Learning *(Linux, ROS, Pytorch)*
Distributed Self-supervised Visual Encoder Training *(Pytorch)*
Visual Calibration for Robots *(Sci-kit, OpenCV, Pandas, Numpy)*
General Machine Learning Workflows *(Pytorch, Tensorflow, Keras, Pandas, Sci-kit Learn)*

Spoken & Written Languages

Turkish	Native Proficiency
English	Working Proficiency
German	Beginner