YEON-JI SONG

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EDUCATION

Seoul National University (SNU) 2021.09 - Present Ph.D in Interdisciplinary Program in Neuroscience Seoul, South Korea Advisor: Byoung-Tak Zhang Computer Vision, Unsupervised Representation Learning, Video Understanding Hong Kong University of Science and Technology (HKUST) 2017.09 - 2021.05 B.Eng. in Electronic and Computer Engineering Clear Water Bay, Hong Kong **PUBLICATIONS Unsupervised Dynamics Prediction with Object-Centric Kinematics** Yeon-Ji Song, Suhyung Choi, Jaein Kim, Jin-Hwa Kim*, Byoung-Tak Zhang* Continuous SO(3) Equivariant Convolution for 3D Point Cloud Analysis Jaein Kim, Heebin Yoo, Dong-Sig Han, Yeon-Ji Song, Byoung-Tak Zhang Under review Learning Object Appearance and Motion Dynamics with Object-Centric Representations Yeon-Ji Song, Hyunseo Kim, Suhyung Choi, Jin-Hwa Kim*, Byoung-Tak Zhang* NeurIPS 2023 workshop on Causal Representation Learning On Discovery of Local Independence over Continuous Variables via Neural Contextual Decomposition Inwoo Hwang, Yunhyeok Kwak, Yeon-Ji Song, Byoung-Tak Zhang*, Sanghack Lee* In Proceedings of CLeaR 2023 WORK EXPERIENCE **PitchDaily** 2023.03 - 2023.11 Seoul, South Korea Part-time Artificial Intelligence Intern Created text summarization module using KoAlpaca. **Biointelligence Lab (SNU)** 2020.12 - 2021.04 Undergraduate Research Intern Seoul, South Korea • Designed and conducted research on Robotics and Reinforcement Learning. Surromind (SNU) 2020.07 - 2020.10 Artificial Intelligence Research Engineer Seoul, South Korea • Designed and implemented a Deep Learning model for Pose Estimation based on Detectron2. Robocore AI 2020.06 - 2020.07 Robotics Software Engineer Science Park, HongKong · Created new solutions for temi robots, combining IOT products and the mobility of temi. • Performed GUI design, system design and solved real-life customer request with AI solution. 2019.06 - 2019.09 Codecrain Inc. Full-stack Web Developer Seoul, South Korea Developed frontend web application along with a senior developer using React.js. • Implemented React. is and Node. is to enhance functionality and user experience. **PROJECTS**

ROJECT3	
Robot Navigation based on Reinforcement Learning	2020.05 - 2021.05
Final Year Project	HKUST
Title: Map-based Robot Navigation and Path planning with Deep Reinforcement Learning	
• Proposed ML and RL based algorithm for autonomous navigation in a cluttered environment.	
Bundleport	2018.05 - 2020.05

HKUST

CTO & Logistics Manager

Created a full-stack web application using Node.js, MySQL, HTML5/CSS3, and JavaScript.

• Developed on cloud server using AWS S3, EC2, Elastic Beanstalk and Cloudfront.

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2019.02 – 2019.05
HKUST
2024.06 - 2024.08
2023.06 - 2023.08
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2022.05 - 2022.06
2020.02 - 2020.05
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