

Hyeonchang Jeon

PHD STUDENT · PROGRAM

Gwangju Institute of Science and Technology (GIST), Republic of Korea, Gwangju

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Education

Gwangju Institute of Science and Technology (GIST)

COMBINED MS/PHD IN ARTIFICIAL INTELLIGENCE

- Advisor: Prof. Kyung-Joong Kim (GPA 4.2 / 4.5)

Gwangju, Republic of Korea

2020 - Present

Ajou University

BS IN FINANCIAL ENGINEERING

- GPA 3.73 / 4.5
- Data Analysis Track

Suwon, Republic of Korea

2013 - 2019 (2 Years for Military Service)

Professional Experience

2022 **Teaching Assistant (Sep 2022 - Dec 2022)**, Gwangju Institute of Science and Technology, Republic of Korea

2020 **Research Assistant (Apr 2020 - Aug 2020)**, Gwangju Institute of Science and Technology, Republic of Korea

2019 - 2020 **Data Engineer in IT team (Mar 2019 - Mar 2020)**, AIDKR, Republic of Korea

2018 - 2019 **Data Engineer Intern in IT team (Dec 2018 - Feb 2019)**, AIDKR, Republic of Korea

Publications

PUBLISHED (* DENOTES EQUAL CONTRIBUTION)

Hyeon-Chang Jeon*, Kyung-Joong Kim. 2026. ReCord: Replay Coordination for Safe and Robust Population-Based Training in Autonomous Driving. Trustworthy AI for Good (AI4GOOD) Workshop@ ICML 2026.

Hyeonchang Jeon*, Kyung-Beom Kim, Eugene Vinitsky, Kyung-Joong Kim. 2026. What Probing Reveals about Autonomous Driving: Linking Internal Prediction Errors to Ego Planning. In submission.

Hyeon-Chang Jeon*, Kyung-Joong Kim. 2026. Tail Catching: An Environment for Active Role Inference via Information-Seeking Actions. In submission.

Hyeon-Chang Jeon*, Kyung-Beom Kim, Eugene Vinitsky, Kyung-Joong Kim. 2025. Interpreting the Planning and Reasoning Ability of Imitation Learning in Autonomous Driving. 7th Workshop on Long-Term Human Motion Prediction in IEEE International Conference on Robotics & Automation (ICRA)

Hyeon-Chang Jeon*, Songmi Oh*, Wonsang You*, Hoyoun Jung, Kyung-Joong Kim. 2024. Understanding Unreliability Using Theory of Mind in Press Diplomacy. In submission.

Hyeon-Chang Jeon*, In-Chang Baek*, Cheong-mok Bae, Taehwa Park, Wonsang You, Taegwan Ha, Hoyun Jung, Jinha Noh, Seungwon Oh, Kyung-Joong Kim. 2023. RaidEnv: Exploring New Challenges in Automated Content Balancing for Boss Raid Games. IEEE Transactions on Games, 2475-1502

Yunho Choi, Dong-Hyeok Park, Sungha Lee, Isaac Han, Ecehan Akan, **Hyeon-Chang Jeon**, Yiyue Luo, SeungJun Kim, Wojciech Matusik, Daniela Rus, Kyung-Joong Kim. 2023. Seamless-walk: natural and comfortable virtual reality locomotion method with a high-resolution tactile sensor. Virtual Reality, (pp 1431-1445)

Hyeon-Chang Jeon*, Songmi Oh*, Wonsang You*, Hoyoun Jung, Kyung-Joong Kim. 2022. Inferring Relationship using Theory of Mind in Press Diplomacy. ICML 2022 Workshop AI for Agent-Based Modelling

Yunho Choi, **Hyeonchang Jeon**, Sungha Lee, Isaac Han, Yiyue Luo, SeungJun Kim, Wojciech Matusik, Kyungjoong Kim. 2022. Seamless-walk: Novel natural virtual reality locomotion method with a high-resolution tactile sensor. IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW), (pp 696-697)

Patents

Yunho Choi, Kyung-joong Kim, Ecehan Akan, Dong Hyeok Park, Sung Ha Lee, **Hyeon-chang Jeon**, Isaac Han. 2024. METHOD AND DEVICE FOR ESTIMATING LOCOMOTION IN VIRTUAL REALITY. U.S. Patent. 18237459.

Awards, Fellowships, & Grants

- 2020 **Dream AI Deep Racer Competitoin**, GIST AI, Amazon
- 2019 **Ajou HOPE Scholarship**, Ajou University
- 2018 **Ajou HOPE Scholarship**, Ajou University
- 2018 **Ajou Welfare Scholarship**, Ajou University
- 2017 **MIRAE ASSET Fintech Idea Competiton**, Mirae Asset Securities Co., Ltd.
- 2017 **Ajou Welfare Scholarship**, Ajou University
- 2014 **Ajou Welfare Scholarship**, Ajou University
- 2013 **Self-Development Scholarship**, Ajou University
- 2013 **Ajou Welfare Scholarship**, Ajou University

Teaching Experience

- Fall 2020 **Game AI**, Teaching Assistant
- Spring 2025 **Reinforcement Learning**, Teaching Assistant

Projects & Research Experience

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| 2020-2021 | Research on the Latest Reinforcement Learning-Based Path Planning Technologies ,
Research Participant | <i>ADD, South
Korea</i> |
| 2022-2024 | Development of artificial intelligence-based game simulation technology to support
online game content production , Research Leader | <i>KOCCA, South
Korea</i> |
| 2024-2024 | New York University , Visiting Researcher (Advised by Prof. Eugene Vinitsky) | <i>United States</i> |
| 2025- | GIST-MIT Physical AI Research Center Physical AI in Action , Research Participant | <i>NRF, South
Korea</i> |