

## JUSEONG LEE

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### RESEARCH INTERESTS

Human Social Sensing, Human and Water Interactions (Sociohydrology),  
Hydrologic and Water Quality Monitoring and Modeling

### PROFESSIONAL EXPERIENCE

- 09/2023 –Present     **Ph.D. Student**  
Department of Environmental Engineering, Seoul National University of Science and Technology, Korea
- 02/2022 – 09/2023     **Researcher**  
DONGMOON ENT Co.,Ltd., , Seoul, Korea
- 09/2020 – 01/2022     **Researcher**  
Water&Environment Co.,Ltd., Namyangju, Korea
- 07/2017 – 08/2020     **Compliance Inspector**  
APEC Co., Ltd, Seoul, Korea

### EDUCATION

- 09/2021–08/2023     **Seoul National University of Science and Technology, Korea**  
Master. in Environmental Engineering  
Dissertation: *Prediction of Climate Change Impacts on Water Quality in the Han River Basin Using HSP<sup>2</sup> and SSP Scenarios*  
Advisor: Hanseok Jeong
- 02/2010–05/2016     **University of Wisconsin – Stevens Point, USA**  
Bachelor of Science in Water Resources

### CONFERENCES

**Juseong Lee**, Haribansha Timalsina, Soonho Hwang, Rabin Bhattarai, Hanseok Jeong. “Optimizing Farmland Subsurface Drainage Design to Enhance the Climate Resilience of Agricultural Systems in Illinois”. The Korean Society of Agricultural Engineers (KSAE) Conference, Jeju, South Korea. October 29-31, 2025 (Oral)

**Juseong Lee** and Haseok Jeong. “Development of a particle-based module for analyzing the behavior of multi-type and multi-scale microplastics”. The Korean Society of Environmental Engineers (KSEE) Expert Group Conference, Daejeon, South Korea. May 26-27, 2025 (Poster).

**Juseong Lee**, Minah Kim, Jungjin Kim, and Haseok Jeong. “Complementary Roles of Text Mining and Manual Coding in Unstructured Data Analysis for Water Environment”. The Korea Water Resource Association (KWRA) Spring Conference, Yeosu, South Korea. May 21-23, 2025 (Poster).

**Juseong Lee** and Haseok Jeong. “Development of the HSP<sup>2</sup> module for microplastic behavior analysis”. The Korean Society of Environmental Engineers (KSEE) Expert Group Conference, Suwon, South Korea. June 27-28, 2024 (Oral).

**Juseong Lee**, Jungjin Kim, and Hanseok Jeong. “Human Social Sensing for Water Environment: Understanding Changes in Humans’ Perception through Unstructured Data Analysis”. The Korea Water Resource Association (KWRA) Spring Conference, Jeju, South Korea. May 08- 10, 2024 (Oral).

## TECHNICAL SKILLS

- GIS (ArcGIs, QGIS)
- Hydrological Modelining (HSPF, HSP2, SWMM)
- Programming & Data Science (Python, R)

## AWARDS AND HONORS

### Best Paper Presentation Award

Korean Society of Environmental Engineers Annual Conference (2024)

## LANGUAGE PROFICIENCY

- Korean: Native
- English: Fluent