Suemin Jeon

MS-Ph.D. Student, Computer Science and Engineering, Korea University

Seoul, South Korea orangeblush@korea.ac.kr smin0136.github.io/smjeon.github.io

suemin-jeon-9233bb397 smin0136 Google Scholar

Summary

- MS-Ph.D. student in the Department of Computer Science and Engineering at Korea University, working in the High-Performance Visual Computing Lab, advised by Prof. Won-Ki Jeong.
- Research interests include scientific and biomedical visualization, deep learning for visualization and imaging, and extended reality and interaction.

Education

MS-Ph.D., Korea University: Computer Science and Engineering · Seoul, South Korea · Aug 2023 – Present · GPA 4.48/4.5

B.S., Korea University: Computer Science and Engineering · Seoul, South Korea · Mar 2018 – Aug 2022 · GPA 4.0/4.5 (Major 4.11/4.5)

Publications

- **Super-Gaussian: Interactive Scene Editing for 3D Gaussian Splatting and Volume Visualization in VR**. *Suemin Jeon*, Kaiyuan Tang, Chaoli Wang, Won-Ki Jeong. IEEE Visualization Conference (VIS), 2026.
- **ESVR: 3D Ellipsoid-based Sparse Volume Rendering**. *Suemin Jeon*, Youjin Kim, Jungwok Park, Kyungryun Lee, Won-Ki Jeong. IEEE Visualization Conference (VIS), 2026.
- **Collaborative Multimodal-Device Framework for Microscopy Volume Visualization**. *Suemin Jeon*, JunYoung Choi, Dong Hyun Yoon, Won-Ki Jeong. Korea Computer Congress (KCC), 2026.
- **XROps: Visual Workflow Management System for Dynamic Immersive Analytics**. *Suemin Jeon*, Junyoung Choi, Haejin Jeong, Won-Ki Jeong. IEEE Transactions on Visualization and Computer Graphics (TVCG), 2025.
- **MC-INR: Efficient Encoding of Multivariate Scientific Data**. Hyunsoo Son, Jeonghyun Noh, *Suemin Jeon*, Chaoli Wang, Won-Ki Jeong. IEEE Visualization Conference (VIS), Short Paper, 2025.
- **Breaking Down the Technical Barrier: Visual Programming Driven Dynamic Immersive Analytics**. *Suemin Jeon*, Junyoung Choi, Haejin Jeong, Won-Ki Jeong. IEEE VIS Poster, 2023.
- **Undersampled MRI Reconstruction using Switchable Interdependent Self-Cooperative Learning**. *Suemin Jeon*, Kanggeun Lee, Won-Ki Jeong. IEEE International Symposium on Biomedical Imaging (ISBI), 2023.

Experience

Researcher, High-Performance Visual Computing Lab, Korea University: Seoul, South Korea · Jun 2021 – Jul 2023 · Research advised by Prof. Won-Ki Jeong on scientific visualization, deep learning for imaging, and immersive analytics.

Frontend & Backend Developer (Intern), Smart&Wise: Seoul, South Korea · Jan 2020 – Aug 2020 · Built web and Android applications for online education.

Teaching

Teaching Assistant, Korea University (COSE436, Interactive Visualization): Seoul, South Korea · Sep 2023 – Dec 2025 · Fall 2023, 2024, and 2025.

Teaching Assistant, Korea University (COSE213, Data Structures): Seoul, South Korea · Mar 2024 – Jul 2024

Research Mentor, Daegu Science High School (Research Guidance Program): Daegu, South Korea · Jul 2023

Tutor, Samsung Junior Software Heroes: South Korea · Jul 2019 – Sep 2019

Teaching Assistant, 2019 Intel AI Drone Competition: South Korea · Aug 2019

Service

- Reviewer, IEEE PacificVis, TVCG, and CHI 2027
- Student Volunteer, IEEE VIS 2026
- Reviewer, CHI poster, 2026
- Reviewer, IEEE VIS 2026

Awards

Outstanding Paper Award: Korea University · May 2025 · Spring 2025.

Honorable Mention, Master's Thesis Award: Korea Computer Graphics Society · Jan 2025

Outstanding Demo Award: AI Tech Day 2023 · Jan 2023 · Awarded by ICT 명품인재양성사업단.

Academic Excellence Scholarship for Freshman: Korea University · Sep 2023 · Fall 2023.

Semester High Honors: Korea University · Sep 2020 · Fall 2020, Spring 2021, Fall 2021, and Spring 2022.

Advisor, 3rd Place Team: Intel AI Drone Competitive Contest · Aug 2019

Skills

Visualization: C/C++, OpenGL, Python VTK

VR/AR: C#, Unity, HTC VIVE, HoloLens2, Meta Quest3

AI/Computing: MATLAB, Python, PyTorch, TensorFlow

Web: HTML, Vue.js, Django, WebGL, JavaScript (ES6), GraphQL, Nuxt, Vuetify

Languages

English: New TEPS 484/600 (Grade 1), IELTS 7.0

Korean: Native speaker