

# Jeongjae Lee

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## RESEARCH INTERESTS

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(1) Diffusion & flow-based models; (2) Reward alignment of generative models; (3) AI for Science and Health.

## EDUCATION

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### Korea Advanced Institute of Science and Technology (KAIST)

M.S., Graduate School of AI

GPA: 4.3/4.3, Advisor: Jong Chul Ye

Sep 2025 – Present  
Seoul, Republic of Korea

### Seoul National University

B.S., Electrical and Computer Engineering

GPA: 4.20/4.3, Rank: 7/158, Summa Cum Laude

On leave for 3 semesters due to military service (Feb 2021 - Aug 2022)

Mar 2019 – Aug 2024  
Seoul, Republic of Korea

## PUBLICATIONS & PREPRINTS

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\*First authors, †Corresponding authors. If absent, first/last authors are first/corresponding.

### [W2] Aligning Few-Step Generative Models by Amortizing Sample-based Variational Inference

Jaewoo Lee\*, Hyeongyu Kang\*, Dohyun Kim, Kyuil Sim, Woocheol Shin, Minsu Kim, Taeyoung Yun, **Jeongjae Lee**, Sanghyeok Choi, Tabitha Edith Lee, Jong Chul Ye†, Jinkyoo Park†

*ICML 2026 Workshop on Structured Probabilistic Inference & Generative Modeling.* [paper] [code]

### [W1] Reward Score Matching: Unifying Reward-based Fine-tuning for Flow and Diffusion Models

**Jeongjae Lee\***, Jinho Chang\*, Jeongsol Kim†, Jong Chul Ye†

*ICML 2026 Workshop on Structured Probabilistic Inference & Generative Modeling.* [paper] [code]

### [C1] PCPO: Proportionate Credit Policy Optimization for Aligning Image Generation Models

**Jeongjae Lee**, Jong Chul Ye

*ICLR 2026.* [paper] [code]

### [J1] Fast and Accurate Protein Structure Search with Foldseek

Michel van Kempen, Stephanie S. Kim, Charlotte Tumescheit, Milot Mirdita, **Jeongjae Lee**, Cameron L. M. Gilchrist, Johannes Söding, Martin Steinegger

*Nature Biotechnology, 2023.* [paper] [code]

## EXPERIENCE

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Sep 2025 – Present

### BISPL Lab, KAIST

*Graduate Research Assistant*

Advisor: Jong Chul Ye

Sep 2024 – Aug 2025

### BISPL Lab, KAIST

*Postbaccalaureate Researcher*

Advisor: Jong Chul Ye

Jan 2023 – Dec 2023

### DeepMetrics

*Research Intern*

Advisor: Hyun Oh Song

Jun 2022 – Dec 2022

### Steinegger Lab, Seoul National University

*Research Intern*

Advisor: Martin Steinegger

## HONORS & AWARDS

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### Medical AI Scholarship

Merit-based scholarship, 3M KRW/semester.

Korea Health Industry Development Institute, Sep 2022 – Feb 2024

### Presidential Science Scholarship

National scholarship for talented students in science and engineering, Full tuition + 2.5M KRW/semester.

Korea Scholarship Foundation, Mar 2019 – Aug 2024

## REFERENCES

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**Jong Chul Ye**

Professor, KAIST

**Hyun Oh Song**

CEO, DeepMetrics

Professor, Seoul National University

**Martin Steinegger**

Associate Professor, Seoul National University