

# Jinseok Bae

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## Education

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<b>Ph.D. Seoul National University</b> , Electrical and Computer Engineering <ul style="list-style-type: none"> <li>GPA: 3.98/4.30</li> </ul>	Sep 2022 – Feb 2027 (expected)
<b>M.S. Seoul National University</b> , Electrical and Computer Engineering <ul style="list-style-type: none"> <li>GPA: 4.18/4.30</li> </ul>	Mar 2020 – Feb 2022
<b>B.S. Seoul National University</b> , Biosystems Engineering, Electrical and Computer Engineering <ul style="list-style-type: none"> <li>GPA: 3.90/4.30</li> </ul>	Mar 2014 – Feb 2020

## Experience

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<b>Meta Reality Labs</b> , Research Scientist Intern (Manager: Yuting Ye) <ul style="list-style-type: none"> <li>Momentum Team, Physics AI (Gemini)</li> </ul>	Redmond, WA, USA Aug 2025 – Feb 2026
<b>Roblox</b> , Research Intern (Manager: Mubbasir Kapadia) <ul style="list-style-type: none"> <li>Core AI, Game Engine Department</li> </ul>	San Mateo, CA, USA Jun 2024 – Sep 2024
<b>LG AI Research</b> , Research Scientist <ul style="list-style-type: none"> <li>Vision AI</li> </ul>	Seoul, Republic of Korea Jan 2022 – Jul 2022
<b>Samsung Electronics</b> , Undergraduate Intern <ul style="list-style-type: none"> <li>Health H/W Development Team, Mobile Division</li> </ul>	Suwon, Republic of Korea Jan 2019 – Feb 2019
<b>Teaching Assistant</b> <ul style="list-style-type: none"> <li>Computer Graphics Programming (24'-fall)</li> <li>3D Computer Vision Track for AI Experts (Samsung, 21'-summer)</li> <li>Signals and Systems (20'-spring)</li> <li>Korean Course (for Keio University Students, 18'-summer)</li> </ul>	
<b>Conference Reviewer</b> <ul style="list-style-type: none"> <li>AAAI 2023, ICCV 2023, SIGGRAPH 2024, SIGGRAPH Asia 2024, CVPR 2025</li> </ul>	

## Honors and Awards

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<b>Youlchon AI for All Fellowship</b> Youlchon Foundation, Artificial Intelligence Institute at Seoul National University	26' spring
<b>Honorable Mention, Changhae Young Researcher Award</b> Korea Computer Graphics Society	KCGS 2025
<b>Simulated Humanoid Wrestling Challenge (3rd Place)</b> Team Yeti (Donggeun Lim, Minseok Kim, <b>Jinseok Bae</b> , Young Min Kim, Jungdam Won)	ICRA 2023
<b>Merit-based Scholarship</b> Seoul National University	19'-spring/fall 18'-fall
<b>Agricultural Engineering Systems Scholarship</b> Agricultural Engineering Systems Scholarship Foundation	18'-spring 15'-spring/fall

## Publications

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- Less is More: Improving Motion Diffusion Models with Sparse Keyframes** ICCV 2025  
*Jinseok Bae*, Inwoo Hwang, Young Yoon Lee, Ziyu Guo, Joseph Liu, Yizhak Ben-Shabat, Young Min Kim, Mubbasir Kapadia
- Event-Driven Storytelling with Multiple Lifelike Humans in a 3D scene** ICCV 2025  
Donggeun Lim, *Jinseok Bae*, Inwoo Hwang, Seungmin Lee, Hwanhee Lee, Young Min Kim
- Motion Synthesis with Sparse and Flexible Keyjoint Control** ICCV 2025  
Inwoo Hwang, *Jinseok Bae*, Donggeun Lim, Young Min Kim
- PLT: Part-Wise Latent Tokens as Adaptable Motion Priors for Physically Simulated Characters** SIGGRAPH 2025  
*Jinseok Bae*, Younghwan Lee, Donggeun Lim, Young Min Kim
- Goal-Driven Human Motion Synthesis in Diverse Tasks** CVPR 2025 Workshop  
Inwoo Hwang, *Jinseok Bae*, Donggeun Lim, Young Min Kim
- Audio-aided Character Control for Inertial Measurement Tracking** Eurographics 2025 Short Paper  
Hojun Jang, *Jinseok Bae*, Young Min Kim
- Versatile Physics-based Character Control with Hybrid Latent Representation** Eurographics 2025  
*Jinseok Bae*, Jungdam Won, Donggeun Lim, Inwoo Hwang, Young Min Kim
- Dynamic Mesh Recovery from Partial Point Cloud Sequence** ICCV 2023  
Hojun Jang, Minkwan Kim, *Jinseok Bae*, Young Min Kim
- PMP: Learning to Physically Interact with Environments using Part-wise Motion Priors** SIGGRAPH 2023  
*Jinseok Bae*, Jungdam Won, Donggeun Lim, Cheol-Hui Min, Young Min Kim
- Neural Marionette: Unsupervised Learning of Motion Skeleton and Latent Dynamics from Volumetric Video** AAAI 2022 (Oral)  
*Jinseok Bae*, Hojun Jang, Cheol-Hui Min, Hyungun Choi, Young Min Kim
- Auto-rigging 3D Bipedal Characters in Arbitrary Poses** Eurographics 2021 Short Paper  
Jeonghwan Kim, Hyeontae Son, *Jinseok Bae*, Young Min Kim
- GATSBI: Generative Agent-centric Spatio-temporal Object Interaction** CVPR 2021 (Oral)  
Cheol-Hui Min, *Jinseok Bae*, Junho Lee, Young Min Kim