Jaesik Park

jaesik.park@snu.ac.kr | jaesik.info | Google Scholar 653 Ho, 303 Dong, 1 Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea (08826)

Working Experiences

Assistant Professor

Seoul, Republic of Korea

2023.09 - Present

CSE and IPAI, Seoul National University (SNU)

• Principal Investigator of Visual and Geometric Intelligence Lab.

• Chief Professor of Student Affairs, IPAI (2024.09 – Present)

Associate Professor Pohang, Republic of Korea

CSE and GSAI, Pohang University of Science and Technology (POSTECH)

2022.09 - 2023.08

Assistant Professor Pohang, Republic of Korea

 $\mathit{CSE}\ \mathit{and}\ \mathit{GSAI},\ \mathit{Pohang}\ \mathit{University}\ \mathit{of}\ \mathit{Science}\ \mathit{and}\ \mathit{Technology}\ (\mathbf{POSTECH})$

2019.04 - 2022.08

• Advised about 20 masters and Ph.D. students

• Selected as one of the POSTECH's Representative Research Achievements (2021)

• Received Outstanding Online Class Award (2020) and the Best EduTech Award (2021)

Staff Research Scientist

Santa Clara, CA, USA

Intelligent Systems Lab, Intel (Manager: Dr. Vladlen Koltun)

2015.12 - 2019.03

• Advised intern students from Stanford University, U.C. Berkeley, and Carnegie Melon University

• Co-creator of Open3D: open-sourced 3D vision library built from scratch (11.5+1.9k GitHub stars)

EDUCATION

Ph.D. and M.S. in Electrical Eng.

Daejeon, Republic of Korea

Korea Advanced Institute of Science and Technology (KAIST)

2009.02 - 2011.02 & 2011.02 - 2015.08

• Ph.D. thesis: Image-based 3D Modeling via Constrained Optimization (Advisor: Prof. In So Kweon, Co-advisor: Dr. Yu-Wing Tai)

• Master's thesis: Upsampling Low-resolution Image using Heterogeneous High-resolution Image (Advisor: Prof. In So Kweon)

B.E. in Media Communication Eng.

Seoul, Republic of Korea

Hanyang University (Summa cum laude)

2005.03 - 2009.02

Publications

International

- [1] Minkyun Seo*, Hyungtae Lim*, Kanghee Lee, Luca Carlone, and **Jaesik Park** BUFFER-X: Towards Zero-Shot Point Cloud Registration in Diverse Scenes 2503.07940 (arXiv), 2025 (*Joint first authors)
- [2] Sangmin Kim, Seunguk Do, and Jaesik Park
 ShowMak3r: Compositional TV Show Reconstruction
 Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2025
- [3] Jaeah Lee, Changwoon Choi, Young Min Kim, and Jaesik Park Recovering Dynamic 3D Sketches from Videos Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2025
- [4] Daneul Kim, Jaeah Lee, and **Jaesik Park** *Improving Editability in Image Generation with Layer-wise Memory*Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2025
- [5] Hyungtae Lim, Daebeom Kim, Gunhee Shin, Jingnan Shi, Ignacio Vizzo, Hyun Myung, **Jaesik Park**, and Luca Carlone

KISS-Matcher: Fast and Robust Point Cloud Registration Revisited Int. Conf. on Robotics and Automation (ICRA), 2025

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- [6] Seungjoo Shin, Jaesik Park, and Sunghyun Cho Locality-aware Gaussian Compression for Fast and High-quality Rendering Int. Conf. on Learning Representations (ICLR), 2025
- [7] Ashish Kumar and Jaesik Park
 Designing Concise ConvNets with Columnar Stages
 Int. Conf. on Learning Representations (ICLR), 2025
- [8] Deepak Ghimire, Dayoung Kil, Seonghwan Jeong, Jaesik Park, and Seong-Heum Kim One-cycle Structured Pruning with Stability Driven Structure Search 2501.13439 (arXiv), 2025
- [9] Ashish Kumar and Jaesik Park
 Cross Resolution Encoding-Decoding For Detection Transformers
 2410.04088 (arXiv), 2024
- [10] Seokjun Ahn*, Jungtaek Kim*, Minsu Cho, and Jaesik Park Budget-Aware Sequential Brick Assembly with Efficient Constraint Satisfaction Transactions on Machine Learning Research (TMLR), 2024 (*Joint first authors)
- [11] Joonghyuk Shin, Daehyeon Choi, and Jaesik Park

 InstantDrag: Improving Interactivity in Drag-based Image Editing

 ACM Special Interest Group on Graphics and Interactive Techniques (SIGGRAPH Asia), 2024
- [12] Minguk Kang, Richard Zhang, Connelly Barnes, Sylvain Paris, Suha Kwak, Jaesik Park, Eli Shechtman, Jun-Yan Zhu, and Taesung Park Distilling Diffusion Models into Conditional GANs European Conf. on Computer Vision (ECCV), 2024
- [13] Jungeon Kim, Soongjin Kim, Jaesik Park, and Seungyong Lee Deep Cost Ray Fusion for Sparse Depth Video Completion European Conf. on Computer Vision (ECCV), 2024
- [14] Nahyuk Lee, Juhong Min, Junha Lee, Seungwook Kim, Kanghee Lee, Jaesik Park, and Minsu Cho 3D Geometric Shape Assembly via Efficient Point Cloud Matching Int. Conf. on Machine Learning (ICML), 2024
- [15] Changwoon Choi, Jaeah Lee, Jaesik Park, and Young Min Kim 3Doodle: Compact Abstraction of Objects with 3D Strokes ACM Special Interest Group on Graphics and Interactive Techniques (SIGGRAPH), 2024 (Accepted as a journal track paper)
- [16] Seoyeon Kim, Minguk Kang, Dongwon Kim, Jaesik Park, and Suha Kwak Extending CLIP's Image-Text Alignment to Referring Image Segmentation Annual Conf. of the North American Chapter of the Assoc. for Computational Linguistics (NAACL), 2024
- [17] Ashish Kumar, Daneul Kim, Jaesik Park, and Laxmidhar Behera Pick-or-Mix: Dynamic Channel Sampling for ConvNets Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2024
- [18] Chunghyun Park, Seungwook Kim, **Jaesik Park**, and Minsu Cho Learning SO(3)-Invariant Semantic Correspondence via Local Shape Transform Int. Conf. on Computer Vision and Pattern Recognition (**CVPR**), 2024
- [19] Ashish Kumar, Jaesik Park, and Laxmidhar Behera High-Speed Stereo Visual SLAM for Low-Powered Computing Devices IEEE Robotics and Automation Letters (RAL), vol. 9, issue 1, 2024 (invited to the ICRA2024 oral presentation)
- [20] Seungjoo Shin and Jaesik Park Binary Radiance Fields

Int. Conf. on Neural Information Processing Systems (**NeurIPS**), 2023 (Received 30th **HumanTech Paper Award (Silver Prize)**, Samsung Electronics Corp.)

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- [21] MinGuk Kang, Joonghyuk Shin, and **Jaesik Park**StudioGAN: A Taxonomy and Benchmark of GANs for Image Synthesis
 Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2023
- [22] Jaesung Choe, Christopher Choy, Jaesik Park, In So Kweon, and Animashree Anandkumar Spacetime Surface Regularization for Neural Dynamic Scene Reconstruction Int. Conf. on Computer Vision (ICCV), 2023
- [23] Joonghyuk Shin, Minguk Kang, and Jaesik Park Fill-Up: Balancing Long-Tailed Data with Generative Models 2306.07200 (arXiv), 2023
- [24] Seoyeon Kim, Minguk Kang, and Jaesik Park RISCLIP: Referring Image Segmentation Framework using CLIP 2306.08498 (arXiv), 2023
- [25] Seungwook Kim, Chunghyun Park, Yoonwoo Jeong, **Jaesik Park**, and Minsu Cho Stable and Consistent Prediction of 3D Characteristic Orientation via Invariant Residual Learning Int. Conf. on Machine Learning (**ICML**), 2023
- [26] Minguk Kang, Jun-Yan Zhu, Richard Zhang, Jaesik Park, Eli Shechtman, Sylvain Paris, and Taesung Park Scaling up GANs for Text-to-Image Synthesis Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2023 (Accepted as a highlight paper (review score 5,5,5) - top 2.5% among 9,155 submissions)
- [27] Kwonyoung Ryu, Soonmin Hwang, and Jaesik Park Instant Domain Augmentation for LiDAR Semantic Segmentation Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2023
- [28] Kanghee Lee, Junha Lee, and Jaesik Park
 Learning to Register Unbalanced Point Pairs
 3D Vision and Robotics CVPR workshop, 2023
- [29] Jinoh Cho, Minguk Kang, Vibhav Vineet, and Jaesik Park Instance-Aware Image Completion AI for Content Creation (AI4CC) CVPR workshop, 2023
- [30] Rongrong Gao, Tian-Zhu Xiang, Chenyang Lei, Jaesik Park, and Qifeng Chen Scene-level Point Cloud Colorization with Semantic-and-Geometric-aware Networks IEEE Int. Conf. on Robotics and Automation (ICRA), 2023
- [31] Seungjoo Shin*, Min Woo Kim*, Kyong Hwan Jin, Kwang Moo Yi, Yoshiki Kohmura, Tetsuya Ishikawa, Jung Ho Je, and Jaesik Park Deep 3D Reconstruction of Synchrotron X-ray Computed Tomography for Intact Lungs published by Nature Research (Scientific Reports), 2023 (*Equal contribution)
- [32] Seokjun Ahn, Jungtaek Kim, Minsu Cho, and Jaesik Park Sequential Brick Assembly with Efficient Constraint Satisfaction 2210.01021 (arXiv), 2022
- [33] Hyomin Kim, Hyeonseo Nam, Jungeon Kim, Jaesik Park, and Seungyong Lee LaplacianFusion: Detailed 3D Clothed-Human Body Reconstruction ACM Special Interest Group on Graphics and Interactive Techniques (SIGGRAPH Asia), 2022 (Accepted as a journal track paper)
- [34] Yoonwoo Jeong*, Seungjoo Shin*, Junha Lee*, Christopher Choy, Animashree Anandkumar, Minsu Cho, and Jaesik Park PeRFception: Perception using Radiance Fields Int. Conf. on Neural Information Processing Systems (NeurIPS) Datasets and Benchmarks Track, 2022 (*Equal contribution)
- [35] Nayeong Kim, Sehyun Hwang, Sungsoo Ahn, Jaesik Park, and Suha Kwak Learning Debiased Classifier with Biased Committee Int. Conf. on Neural Information Processing Systems (NeurIPS), 2022

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- [36] Seunghyuk Cho, Juyong Lee, **Jaesik Park**, and Dongwoo Kim

 A Rotated Hyperbolic Wrapped Normal Distribution for Hierarchical Representation Learning
 Int. Conf. on Neural Information Processing Systems (**NeurIPS**), 2022
- [37] Seungwook Kim, Yoonwoo Jeong, Chunghyun Park, Jaesik Park, and Minsu Cho SeLCA: Self-Supervised Learning of Canonical Axis Symmetry and Geometry in Neural Representations (NeurReps), NeurIPS workshop, 2022
- [38] Jiye Kim, Seungbeom Lee, Dongwoo Kim, Sungsoo Ahn, and Jaesik Park Substructure-Atom Cross Attention for Molecular Representation Learning AI for Science: Progress and Promises (AI4Science) NeurIPS workshop, 2022
- [39] Juyong Lee*, Seokjun Ahn*, and Jaesik Park Style-Agnostic Reinforcement Learning European Conf. on Computer Vision (ECCV), 2022 (*Equal contribution)
- [40] Jaesung Choe*, Chunghyun Park*, Francois Rameau, Jaesik Park, and In So Kweon PointMixer: MLP-Mixer for Point Cloud Understanding European Conf. on Computer Vision (ECCV), 2022 (*Equal contribution)
- [41] Jaewon Kam, Jungeon Kim, Soongjin Kim, **Jaesik Park**, and Seungyong Lee *CostDCNet: Cost Volume based Depth Completion for a Single RGB-D Image* European Conf. on Computer Vision (**ECCV**), 2022
- [42] Jinhwi Lee, Jungtaek Kim, Hyunsoo Chung, Jaesik Park, and Minsu Cho Learning to Assemble Geometric Shapes Int. Joint Conf. on Artificial Intelligence (IJCAI), 2022
- [43] Hyunmin Lee and Jaesik Park

 Instance-wise Occlusion and Depth Orders in Natural Scenes
 Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2022
- [44] Chunghyun Park, Yoonwoo Jeong, Minsu Cho, and Jaesik Park Fast Point Transformer Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2022
- [45] Jaebong Jeong, Janghun Jo, Sunghyun Cho, and **Jaesik Park**3D Scene Painting via Semantic Image Synthesis
 Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2022
- [46] Jungeon Kim, Hyomin Kim, Hyeonseo Nam, Jaesik Park, and Seungyong Lee TextureMe: High-quality Textured Scene Reconstruction in Real-time ACM Transactions on Graphics (ToG), 2022 (also presented at SIGGRAPH2022)
- [47] Jaesung Choe, Byeongin Joung, Francois Rameau, Jaesik Park, and In So Kweon Deep Point Cloud Reconstruction Int. Conf. on Learning Representations (ICLR), 2022
- [48] Jae Shin Yoon, Zhixuan Yu, Jaesik Park, and Hyun Soo Park HUMBI: A Large Multiview Dataset of Human Body Expressions and Benchmark Challenge Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2021
- [49] Junha Lee, Christopher Choy, and Jaesik Park Putting 3D Spatially Sparse Networks on a Diet 2112.01316 (arXiv), 2021
- [50] Wei Dong*, Kwonyoung Ryu*, Michael Kaess, and Jaesik Park Revisiting LiDAR Registration and Reconstruction: A Range Image Perspective 2112.02779 (arXiv), 2021 (*Equal contribution)

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- [51] Jinsoo Choi, Jaesik Park, and In So Kweon Self-Supervised Real-time Video Stabilization British Machine Vision Conference (BMVC), 2021
- [52] Minguk Kang, Woohyeon Shim, Minsu Cho, and **Jaesik Park**Rebooting ACGAN: Auxiliary Classifier GANs with Stable Training
 Int. Conf. on Neural Information Processing Systems (**NeurIPS**), 2021
- [53] Hyunsoo Chung, Jungtaek Kim, Boris Knyazev, Jinhwi Lee, Graham W. Taylor, Jaesik Park, and Minsu Cho Brick-by-Brick: Combinatorial Construction with Deep Reinforcement Learning Int. Conf. on Neural Information Processing Systems (NeurIPS), 2021
- [54] Yoonwoo Jeong, Seokjun Ahn, Christopher Choy, Animashree Anandkumar, Minsu Cho, and Jaesik Park Self-Calibrating Neural Radiance Fields Int. Conf. on Computer Vision (ICCV), 2021
- [55] Junha Lee, Seungwook Kim, Minsu Cho, and Jaesik Park Deep Hough Voting for Robust Global Registration Int. Conf. on Computer Vision (ICCV), 2021
- [56] Hyomin Kim, Jungeon Kim, Jaewon Kam, Jaesik Park*, and Seungyong Lee* Deep Virtual Markers for Articulated 3D Shapes Int. Conf. on Computer Vision (ICCV), 2021 (*Joint corrresponding authors, Oral Presentation, 3.4% acceptance rate)
- [57] Hyunmin Lee and Jaesik Park
 STAD: Stable Video Depth Estimation
 IEEE Int. Conf. on Image Processing (ICIP), 2021
- [58] Taewon Jin, Taesoo Park, Ina Park, Jaesik Park*, and Ji Hoon Shim* Accelerated Crystal Structure Prediction of Multi-elements Random Alloy using Expandable Features published by Nature Research (Scientific Reports), 2021 (*Joint corrresponding authors)
- [59] Hyomin Kim, Jungeon Kim, Hyeonseo Nam, Jaesik Park, and Seungyong Lee Spatiotemporal Texture Reconstruction for Dynamic Objects Using a Single RGB-D Camera 42nd Annual Conference of the European Association for Computer Graphics (EuroGraphics), 2021
- [60] Jinsoo Choi, Jaesik Park, and In So Kweon High-quality Frame Interpolation via Tridirectional Inference Winter Conf. on Applications of Computer Vision (WACV), 2021
- [61] Minguk Kang and Jaesik Park

 ContraGAN: Contrastive Learning for Conditional Image Generation

 Int. Conf. on Neural Information Processing Systems (NeurIPS), 2020
- [62] Jungtaek Kim, Hyunsoo Chung, Minsu Cho, and Jaesik Park Combinatorial 3D Shape Generation via Sequential Assembly Machine Learning for Engineering Modeling, Simulation, and Design (ML4Eng), NeurIPS workshop, 2020
- [63] Jinhwi Lee*, Jungtaek Kim*, Hyunsoo Chung, Jaesik Park, and Minsu Cho Fragment Relation Networks for Geometric Shape Assembly Learning Meets Combinatorial Algorithms (LMCA), NeurIPS workshop, 2020 (*Equal contribution)
- [64] Zhixuan Yu, Jaeshin Yoon, Inkyu Lee, Prashanth Venkatesh, Jaesik Park, Jihun Yu, and Hyunsoo Park HUMBI: A Large Multiview Dataset of Human Body Expressions Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2020
- [65] Christopher Choy, Junha Lee, Rene Ranftl, Jaesik Park, and Vladlen Koltun High-Dimensional Convolutional Networks for Geometric Pattern Recognition Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2020 (Oral Presentation, 5.7% acceptance rate)

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- [66] Yue Wu, Rongrong Gao, Jaesik Park, and Qifeng Chen Future Video Synthesis with Object Motion Predictions Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2020
- [67] Christopher Choy*, Jaesik Park*, and Vladlen Koltun Fully Convolutional Geometric Features Int. Conf. on Computer Vision (ICCV), 2019 (*Equal contribution)
- [68] Jungeon Kim, Hyomin Kim, Jaesik Park, and Seungyong Lee Global Texture Mapping for Dynamic Objects Pacific Graphics (PG), 2019
- [69] Wei Dong, Jaesik Park, Yi Yang, and Michael Kaess GPU Accelerated Robust Scene Reconstruction IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS), 2019
- [70] Hae-Gon Jeon, Jaesik Park, Gyeongmin Choe, Jinsun Park, Yunsu Bok, Yu-Wing Tai, and In So Kweon Depth from a Light Field Image with Learning-based Matching Costs IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2019
- [71] Maxim Tatarchenko*, Jaesik Park*, Vladlen Koltun, and Qian-Yi Zhou Tangent Convolutions for Dense Prediction in 3D Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2018 (*Equal contribution. Spotlight Oral Presentation)
- [72] Qian-Yi Zhou, Jaesik Park, and Vladlen Koltun Open3D: A Modern Library For 3D Data Processing 1801.09847 (arXiv), 2018
- [73] Byungtae Ahn, Dong-Geol Choi, Jaesik Park, and In So Kweon Real-time Head Pose Estimation using Multi-task Deep Neural Network Robotics and Autonomous Systems (RAS), 2018
- [74] Jaesik Park, Qian-Yi Zhou, and Vladlen Koltun Colored Point Cloud Registration Revisited Int. Conf. on Computer Vision (ICCV), 2017
- [75] Arno Knapitsch, Jaesik Park, Qian-Yi Zhou, and Vladlen Koltun Tanks and Temples: Benchmarking Large-Scale Scene Reconstruction ACM Special Interest Group on Graphics and Interactive Techniques (SIGGRAPH), 2017
- [76] Gyeongmin Choe, Jaesik Park, Yu-Wing Tai, and In So Kweon Refining Geometry from Depth Sensors using IR Shading Images International Journal of Computer Vision (IJCV), 2017
- [77] Seong heum Kim, Yu Wing Tai, Joon Young Lee, **Jaesik Park**, and In So Kweon Category Specific Salient View Selection via Deep Convolutional Neural Networks Computer Graphics Forum (**CGF**), 2017
- [78] Jaesik Park, Sudipta N. Sinha, Yasuyuki Matsushita, Yu-Wing Tai, and In So Kweon Robust Multiview Photometric Stereo using Planar Mesh Parameterization IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2016
- [79] Qian-Yi Zhou, Jaesik Park, and Vladlen Koltun Fast Global Registration European Conf. on Computer Vision (ECCV), 2016 (Oral Presentation, 1.8% acceptance rate)
- [80] Jaesik Park, Yu-Wing Tai, Sudipta N. Sinha, and In So Kweon Efficient and Robust Color Consistency for Community Photo Collections Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2016

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- [81] Hyowon Ha, Sunghoon Im, Jaesik Park, Hae-Gon Jeon, and In So Kweon High-quality Depth from Uncalibrated Small Motion Clip Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2016 (Oral Presentation, 3.9% acceptance rate)
- [82] Inwook Shim, Seunghak Shin, Yunsu Bok, Kyungdon Joo, Dong-Geol Choi, Joon-Young Lee, Jaesik Park, Jun Ho Oh, and In So Kweon Vision System and Depth Processing for DRC-HUBO+ IEEE Int. Conf. on Robotics and Automation (ICRA), 2016 (Depth processing algorithm of Team KAIST (winner of DARPA robotics challenge finals 2015))
- [83] Seong-Heum Kim, Yu-Wing Tai, Jaesik Park, and In So Kweon Multi-view Object Extraction with Fractional Boundaries IEEE Transaction on Image Processing (TIP), 2016
- [84] Hyowon Ha, Jaesik Park, and In So Kweon Dense Depth and Albedo from a Single-shot Structured Light Int. Conf. on 3D Vision (3DV), 2015
- [85] Hae-Gon Jeon, Jaesik Park, Gyeongmin Choe, Jinsun Park, Yunsu Bok, Yu-Wing Tai, and In So Kweon Accurate Depth Map Estimation from a Lenslet Light Field Camera Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2015
- [86] SoonMin Hwang, Jaesik Park, Namil Kim, Yukyung Choi, and In So Kweon Multi-modal Pedestrian Detection: Benchmark Dataset and Baselines Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2015
- [87] Jaesik Park, Hyeongwoo Kim, Yu-Wing Tai, Michael S. Brown, and In-So Kweon High Quality Depth Map Upsampling and Completion for RGB-D Cameras IEEE Transaction on Image Processing (TIP), 2014
- [88] Byungtae Ahn, **Jaesik Park**, and In So Kweon Real-time Head Orientation from a Monocular Camera using Deep Neural Network Asian Conf. on Computer Vision (ACCV), 2014
- [89] Jinsoo Choi, Byungtae Ahn, **Jaesik Park**, and In So Kweon GMM-based Saliency Aggregation for Calibration-free Gaze Estimation Int. Conf. on Image Processing (ICIP), 2014
- [90] Gyeongmin Choe*, Jaesik Park*, Yu-Wing Tai, and In So Kweon Exploiting Shading Cues in Kinect IR Images for Geometry Refinement Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2014 (*Equal contributions. Received 20th HumanTech Paper Award (Silver Prize), Samsung Electronics Corp.)
- [91] Jaesik Park, Sudipta N. Sinha, Yasuyuki Matsushita, Yu-Wing Tai, and In So Kweon Calibrating a Non-isotropic Near Point Light Source using a Plane Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2014
- [92] Jaesik Park, Sudipta N. Sinha, Yasuyuki Matsushita, Yu-Wing Tai, and In So Kweon Multiview Photometric Stereo using Planar Mesh Parameterization Int. Conf. on Computer Vision (ICCV), 2013 (Received 19th HumanTech Paper Award (Silver Prize), Samsung Electronics Corp.)
- [93] Jaesik Park, Tae Hyun Oh, Jiyoung Jung, Yu-Wing Tai, and In So Kweon Tensor Voting Approach for Multi-View 3D Scene-flow Estimation and Refinement European Conf. on Computer Vision (ECCV), 2012
- [94] Jaesik Park, Joon-Young Lee, Yu-Wing Tai, and In So Kweon Modeling Photo Composition and Its Application to Photo Re-arrangement Int. Conf. on Image Processing (ICIP), 2012
- [95] Jaesik Park, Yu-Wing Tai, and In-So Kweon Identigram/Watermark removal using cross-channel correlation Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2012

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- [96] Jiyoung Jung, Yekeun Jeong, Jaesik Park, Hyowon Ha, James Dokyoon Kim, and In-So Kweon A Novel 2.5D Pattern for Extrinsic Calibration of ToF and Camera Fusion System IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS), 2011
- [97] Jaesik Park*, Hyeongwoo Kim*, Yu-Wing Tai, Michael S. Brown, and In-So Kweon High Quality Depth Map Upsampling for 3D-TOF Cameras Int. Conf. on Computer Vision (ICCV), 2011 (*Equal contributions)

Domestic

- [1] Sang Min Kim, Seunguk Do, and **Jaesik Park**, 엔터테인먼트 영상의 시공간적 복원, 제 37회 영상처리 및 이해에 관한 워크샵 (IPIU) (received encouragement award), Feb. 2025
- [2] Namtae Kim, HyunJoon Lee, Haebeom Jung, and **Jaesik Park**, 정렬되지 않은 이미지 쌍을 이용한 2D 가우시안 스플래팅, 제 37회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2025
- [3] Joonghyuk Shin, Alchan Hwang, Yujin Lee, Daneul Kim, and **Jaesik Park**, 멀티모달 디퓨전 트랜스포머를 활용한 텍스트 조건 기반 정밀 이미지 편집 기법, 제 37회 영상처리 및 이해에 관한 워크샵 (IPIU) (received poster award), Feb. 2025
- [4] HyunJoon Lee, Junkyu Min, and **Jaesik Park**, *3차원 가우시안 스플래팅을 활용한 미지의 다중 객체 정합*, 제 37회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2025
- [5] Jaeah Lee, Changwoon Choi, Youngmin Kim, and **Jaesik Park**, 움직임의 추상화를 위한 3차원 스케치 재건, 제 37 회 영상처리 및 이해에 관한 워크샵 (IPIU) (received poster award), Feb. 2025
- [6] Cheolhong Min, HyunJoon Lee, Meikel Kokowski, Dahoon Kim, and **Jaesik Park**, 효율적인 다중 작업 실행 평가를 위한 시간 제약 지시 수행 벤치마크, 제 37회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2025
- [7] Pierre Musacchio and **Jaesik Park**, End-to-end Occlusion and Depth Order Prediction with Transformers, 제 37회 영상처리 및 이해에 관한 워크샵 (IPIU) (received poster award), Feb. 2025
- [8] In-Jae Lee, Moonkyum Kim, Kwonyoung Ryu, and **Jaesik Park**, 열린 어휘집합 기반 3차원 객체 검출을 위한 자동 라벨링 기술 개발, 제 37회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2025
- [9] Haebeom Jung, Jungwoo Kim, and **Jaesik Park**, 광학 손실을 통한 부정확한 카메라 포즈 최적화, 제 37회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2025
- [10] Jinmo Kim, Namtae Kim, HyunJoon Lee, and **Jaesik Park**, 가려진 형상의 복원을 위한 Masked Multi-view Transformer, 제 37회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2025
- [11] Daneul Kim, Jaeah Lee, and **Jaesik Park**, *층위별 메모리를 활용한 이미지 편집 개선 기법*, 제 37회 영상처리 및 이해에 관한 워크샵 (IPIU) (received poster award), Feb. 2025
- [12] Seunguk Do, Joonghyuk Shin, and **Jaesik Park**, 3D 자세 추정 없는 단일 시점 3D 아바타 모양 복원, 제 37회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2025
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- Action Editor, Transactions on Machine Learning Research (TMLR), 2025
- Lead Area Chair, Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2025
- Area Chair, Int. Conf. on Learning Representations (ICLR), 2025
- Area Chair, Int. Conf. on Neural Information Processing Systems (NeurIPS), 2024
- Lead Area Chair, European Conf. on Computer Vision (ECCV), 2024
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- Area Chair, Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2024
- Technical Papers Committee, ACM (SIGGRAPH Asia), 2023
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- Area Chair, Int. Conf. on Computer Vision (ICCV), 2023
- Associate Editor, Int. Conf. on Robotics and Automation (ICRA), 2023
- Area Chair, Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2023
- Area Chair, European Conf. on Computer Vision (ECCV), 2022
- Associate Editor, IEEE Int. Conf. on Robotics and Automation (ICRA), 2022
- Associate Editor, IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS), 2021
- Area Chair, Machine Vision Applications (MVA) conference, 2021
- Area Chair, Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2021
- Area Chair, Int. Conf. on Computer Vision (ICCV), 2021
- Senior Program Committee, Int. Joint Conf. on Artificial Intelligence (IJCAI), 2021
- Senior Program Committee, Assoc. for the Advancement of Artificial Intelligence (AAAI), 2021
- Area Chair, Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2020
- Senior Program Committee, Int. Joint Conf. on Artificial Intelligence (IJCAI), 2020
- Area Chair, Int. Conf. on Computer Vision (ICCV), 2019
- Session Chair, Int. Conf. on Computer Vision (ICCV), 2019
- Have been served as a reviewer for international conferences, such as CVPR, ICCV, ECCV, ICLR, NeurIPS, AAAI, ICRA, IROS, SIGGRAPH, SIGGRAPH Asia, BMVC, 3DV, ACCV, WACV, and so on.
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- Self-Calibrating Neural Radiance Fields, Seoul National University, Seoul, Republic of Korea (online), Feb. 2022
- Self-Calibrating Neural Radiance Fields, DGIST, Daegu, Republic of Korea (online), Aug. 2021
- Object Detection from Images or Point Clouds, LG Electronics, Seoul, Republic of Korea, Aug. 2021
- Self-Calibrating Neural Radiance Fields, Korea Institute of Science and Technology (KIST), Virtual, June 2021
- Mentor Session: How to Become a Professor, CVPR 2021, Virtual, June 2021
- Recent Work on Image Generation, GIST, Gwangju, Republic of Korea (online), May 2021
- Point Cloud Registration using Hierachical Hough Transform, 33rd Workshop on Image Processing and Image Understanding (IPIU 2021), Virtual, Feb. 2021
- 3D Representations and Detections, Chungbuk University, Virtual, Jan. 2021
- Introduction to Computer Vision, Kyungbuk Science High School, Pohang, Republic of Korea, Aug. 2020
- High-Dimensional Convolutional Networks for Geometric Pattern Recognition, KCCV 2020, Seoul, Aug. 2020
- Object Detection from Images or Point Clouds, LG Electronics, Seoul, Republic of Korea, Aug. 2020
- Geometric Pattern Recognition, 32nd Workshop on Image Proc. and Image Understanding (IPIU 2020), Feb. 2020
- Fully Convolutional Geometric Features, Koh Young Technology, Yongin, Republic of Korea, Dec. 2019
- Open3D Tutorial and Fully Convolutional Geometric Features, KETI, Seongnam, Republic of Korea, Nov. 2019
- Introduction to Computer Vision and Deep Learning, Daegu Science High School, Aug. 2019
- 3D Computer Vision and Open3D, Int. Conf. on Machine Vision Applications (MVA), Tokyo, Japan, May 2019
- 3D Computer Vision and Open3D, Qualcomm, San Diego, USA, June 2019
- 3D reconstruction using Open3D, Minneapolis, University of Minnesota, invited lecture for Multiview 3D Geometry in Computer Vision (CSCI 5980) Class, Apr. 2018
- 3D reconstruction using Open3D, Forma Technology (acquired by Snap Inc.), San Francisco, USA, March 2018

OTHER WORKING EXPERIENCES

Post-Doc. Researcher

KAIST (Mentor: Prof. In So Kweon)

Research Intern

Microsoft Research (MSR) (Mentor: Dr. Sudipta N. Sinha)

Research Intern

Beijing, China

Research Intern

Microsoft Research Asia (MSRA) (Mentor: Prof. Y. Matsushita)

Beijing, China

April 2012 – Oct. 2012

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