Juhong Min

POSITION	**Postdoctoral researcher** **Graduate School of Artificial Intelligence** **Pohang University of Science and Technology (POSTECH)**
CONTACT INFORMATION	Computer Vision Laboratory E2 302, Department of CSE, POSTECH 77, Cheongam-ro, Nam-gu, Pohang-si, Gyeongsangbuk-do, 376723 Republic of Korea e-mail: juhongm999@postech.ac.kr Homepage: `https://juhongm999.github.io`
CITIZENSHIP	The Republic of Korea
RESEARCH INTERESTS	Computer Vision, Visual correspondences and its applications, Robotics, Multimodal learning.

EDUCATION

Pohang University of Science and Technology (POSTECH), Pohang, Korea

Ph.D., Department of Computer Science and Engineering **Sep 2018 − Feb 2024**

- Advisor: Prof. Minsu Cho
- Dissertation: *Learning Visual Correspondence: Exploring Multi-Level Neural Features and High-Dimensional Transforms*
- Cumulative GPA: 4.12/4.3

The Pennsylvania State University, State College, PA

B.S., Department of Computer Science and Engineering **Sep 2011 − Dec 2014**

- Major: Computer Science
- Cumulative GPA: 3.29/4.0

WORK EXPERIENCE

Pohang University of Science and Technology (POSTECH), Pohang, Korea
Postdoctoral Researcher **Mar 2024 − now**

- Topic: Robotics.
- Supervisor: Prof. Minsu Cho

Google Research, Grenoble, France
Student Researcher **July 2023 − Mar 2024**

- Topic: Video understanding.
- Supervisor: Dr. Cordelia Schmid.

Microsoft Research Asia, Beijing, China
Research Intern **Nov 2021 − Apr 2022**

- Topic: Image representation learning.
- Supervisor: Dr. Chong Luo.

Electronic Arts Korea Inc., Seoul, Korea
Associate Software Engineer **Jan 2018 − Mar 2018**

- Developed and maintained FIFA Online 3 client/front-end UI modules.

ACADEMIC SERIVCES	International Conference on Computer Vision (ICCV) 2019 *Webmaster* Computer Vision and Pattern Recognition (CVPR) International Conference on Machine Learning (ICML) Neural Information Processing Systems (NeurIPS) European Conference on Computer Vision (ECCV) International Journal of Computer Vision (IJCV) International Conference on Computer Vision (ICCV) Transactions on Pattern Analysis and Machine Intelligence (TPAMI) Winter Conference on Computer Vision (WACV) The Machine Vision Applications (MVA) AAAI Conference on Artificial Intelligence (AAAI) *Regular reviewer*
HONORS & AWARDS	Best Ph.D Dissertation Award (2024) *in CSE, GSAI, EE, CITE at POSTECH* BK21 outstanding paper awards *For NeurIPS'22 and TPAMI'22 papers* Google PhD Fellowship Award 2022 *Machine Perception, Speech Technology, and Computer Vision* Outstanding reviewer at CVPR 2022 *Awarded to top 5% reviewers* POSTECHIAN Fellowship Award 2022 *For outstanding research achievements* BK21 outstanding paper awards *For ICCV'19, ECCV'20, and CVPR'21 papers* Qualcomm Innovation Fellowship Korea 2021 *Convolutional Hough Matching Networks* Outstanding reviewer at ICCV 2021 *Awarded to top 5% reviewers* The 1st POSTECH research performance contest 2021 *Fourth prize* Naver Ph.D. Fellowship 2020 Best term project & presentation award 2019 *For outstanding in-class (3D Vision) project achievements*
MILITARY OBLIGATION	**59 Ammunition Supply Point & 102 Replacement Battalion**, Chuncheon, Korea *Rifleman* **Jun 2015 – Mar 2017** • Carried out obligatory duty of national defense.

PUBLICATIONS   All my papers are available from my website https://juhongm999.github.io/ and Google
Scholar profile.[1]

Juhong Min, Shyamal Buch, Arsha Nagrani, Minsu Cho, Cordelia Schmid, "MoReVQA:
Exploring Modular Reasoning Models for Video Question Answering," in *Proceedings of the
IEEE Conf. on Computer Vision and Pattern Recognition* (**CVPR**), 2024.

Seungwook Kim, **Juhong Min**, Minsu Cho, "Efficient Semantic Matching with Hyper-
column Correlation," in *Proceedings of the IEEE Winter Conference on Computer Vision*
(**WACV**), 2024. **Oral presentation, best paper finalist**.

Juhong Min, Seungwook Kim, Minsu Cho, "Convolutional Hough Matching Networks for
Robust and Efficient Visual Correspondence," in *IEEE Transactions on Pattern Analysis
and Machine Intelligence* (**TPAMI**), 2023.

Juhong Min, Yucheng Zhao, Chong Luo, Minsu Cho, "Peripheral Vision Transformer," in
Proceedings of the Annual Conference on Neural Information Processing Systems (**NeurIPS**),
2022.

Seungwook Kim, **Juhong Min**, Minsu Cho, "TransforMatcher: Match-to-Match Attention
for Semantic Correspondence," in *Proceedings of the IEEE Conf. on Computer Vision and
Pattern Recognition* (**CVPR**), 2022.

Dahyun Kang, Heeseung Kwon, **Juhong Min**, Minsu Cho, "Relational Embedding for
Few-Shot Classification," in *Proceedings of the IEEE International Conference on Computer
Vision* (**ICCV**), 2021.

Juhong Min, Dahyun Kang, Minsu Cho, "Hypercorrelation Squeeze for Few-Shot Segmen-
tation," in *Proceedings of the IEEE International Conference on Computer Vision* (**ICCV**),
2021.

Juhong Min, Minsu Cho, "Convolutional Hough Matching Networks," in *Proceedings of
the IEEE Conf. on Computer Vision and Pattern Recognition* (**CVPR**), 2021. **Oral pre-
sentation**.

Jongmin Lee, Yoonwoo Jeong, Seungwook Kim, **Juhong Min**, Minsu Cho, "Learning to
Distill Convolutional Features into Compact Local Descriptors," in *Proceedings of the IEEE
Winter Conference on Computer Vision* (**WACV**), 2021.

Juhong Min, Jongmin Lee, Jean Ponce, Minsu Cho, "Learning to Compose Hypercolumns
for Semantic Visual Correspondence," in *Proceedings of the IEEE European Conference on
Computer Vision* (**ECCV**), 2020.

Juhong Min, Jongmin Lee, Jean Ponce, Minsu Cho, "SPair-71k: A Large-scale Benchmark
for Semantic Correspondence," in arXiv preprint, 2019.

Juhong Min, Jongmin Lee, Jean Ponce, Minsu Cho, "Hyperpixel Flow: Semantic Cor-
respondence with Multi-layer Neural Features," in *Proceedings of the IEEE International
Conference on Computer Vision* (**ICCV**), 2019.

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[1]See my profile at: https://scholar.google.com/citations?user=261oVi4AAAAJ&hl=en.

LANGUAGE SKILLS Korean(native), English(fluent)

REFEREES   *Available on request.*