RYOSUKE YAMADA

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RESEARCH INTERESTS

computer vision, formula/self-supervised learning, fairness

WORK EXPERIENCE

Advanced Industrial Science and Technology (AIST): Research Scientist   Since April 2025
Artificial Intelligence Research Center, Computer Vision Research Team
University of Technology Nuremberg (UTN): Visiting Posdoc Researcher   Since July 2025
work with Prof. Yuki M. Asano (Head of Fundamental AI Lab)

EDUCATION

University of Tsukuba,   April 2022 - March 2025
Ph.D. in Computer Science, Supervisor: Prof. Yutaka Satoh
Tokyo Denki University,   April 2020 - March 2022
M.S. in Robotics and Mechatronics, Supervisor: Prof. Akio Nakamura
Tokyo Denki University,,   April 2016 - March 2020
B.S. in Robotics and Mechatronics, Supervisor: Prof. Akio Nakamura

SELECTED PUBLICATIONS

Formula-Supervised Visual-Geometric Pre-training
R. Yamada, K. Hara, H. Kataoka, K. Makihara, N. Inoue, R. Yokota, Y. Satoh
Proc. of European Conference on Computer Vision (ECCV), 2024.
Primitive Geometry Segment Pre-training for 3D Medical Image Segmentation
R. Tadokoro*, **R. Yamada***, K. Nakashima, R. Nakamura, H. Kataoka
Proc. of The British Machine Vision Conference (BMVC), 2023. Best Paper Finalists, * indicates equal contribution
Point Cloud Pre-Training With Natural 3D Structures
R. Yamada, H. Kataoka, N. Chiba, Y. Domae, T. Ogata
Proc. of IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2022.
MV-FractalDB: Formula-driven Supervised Learning for Multi-view Image Recognition
R. Yamada, R. Takahashi, R. Suzuki, A. Nakamura, Y. Yoshiyasu, R. Sagawa, H. Kataoka
Proc. of IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2021.
Pre-training Without Natural Images
H. Kataoka, K. Okayasu, A. Matsumoto, E. Yamagata, **R. Yamada**, N. Inoue, A. Nakamura, Y. Satoh
International Journal of Computer Vision (IJCV), 2022.

AWARDS

Dean's Award (Research Excellence) at University of Tsukuba   March 2025
Outstanding Reviewer at Winter Conference on Applications of Computer Vision (WACV)   March 2025
AIST Best Paper Award   March 2023
Student Encouragement Award at Meeting on Image Recognition and Understanding (MIRU)   August 2023
Yasujiro NIWA Outstading Student Award at Tokyo Denki University   March 2022
Best Paper Award at Vision Engineering Workshop (Japanese Conference)   December 2020
Best Paper Honorable Mention Award at Asian Conference on Computer Vision (ACCV)   November 2020

FELLOWSHIPS

Overseas Research Fellowships   April 2025 - March 2027
Japan Society for the Promotion of Science (JSPS) — JPY 6,278,000 (about EUR 38,900) per year
Research Fellowship for Young Scientists (DC1)   April 2022 - March 2025
Japan Society for the Promotion of Science (JSPS) — JPY 3,400,000 ($32,000) per year