




# Yanjun SUN

Ph.D. Student at Keio University

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**Bio.** Yanjun Sun is a Ph.D. Student at Keio University, supervised by Yoshimitsu Aoki. She also currently works as a research assistant (RA) at the National Institute of Advanced Industrial Science and Technology (AIST). She received her B.Sc.CS from Teikyo University and received her M.Eng. from Ochanomizu University.

**Reserch interests.** Her research interests lie at the intersection of computer vision, multimodal, and robotics.

## EDUCATION

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APR 2022 –	<b>PhD Candidate in Engineer</b> , <i>Keio University</i> , Kanagawa
MAR 2025 (EXPECTED)	Graduate School of Science and Technology <i>Advisor : Prof. Yoshimitsu Aoki</i>
APR 2020 – MAR 2022	<b>Master of Engineering</b> , <i>Ochanomizu University</i> , Tokyo Graduate School of Humanities and Sciences <i>Advisor : Prof. Ichiro Kobayashi</i>
OCT 2017 – MAR 2020	<b>Bachelor of Engineering</b> , <i>Teikyo University</i> , Utsunomiya Faculty of Science and Engineering Double degree <i>Advisor : Prof. Mitsuhiro Ogawa</i>
SEP 2015 – JUN 2019	<b>Bachelor of Engineering</b> , <i>ShanDong Jiaotong University</i> , China Faculty of Languages Double degree

## PUBLICATIONS

### Journal

- ▶ **Yanjun Sun**, Yue Qiu, Yoshimitsu Aoki, Hirokatsu Kataoka, Outdoor Vision-and-Language Navigation Needs Object-level Alignment; *Sensors* 23(13), 6028, June 2023.

### International Conference

- ▶ **Yanjun Sun**, Yue Qiu, Mariia Khan, Fumiya Matsuzawa, Kenji Iwata, “The STVchrono Dataset : Towards Continuous Change Recognition in Time,” *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024 (Accept).
- ▶ **Yanjun Sun**, Yue Qiu, Yoshimitsu Aoki, Hirokatsu Kataoka, “Guided by the Way : The Role of On-the-route Objects and Scene Text in Enhancing Outdoor Navigation,” *IEEE International Conference on Robotics and Automation (ICRA)*, 2024 (Accept).
- ▶ **Yanjun Sun**, Yue Qiu, Yoshimitsu Aoki, Hirokatsu Kataoka, “Boosting Outdoor Vision-and-Language Navigation with On-the-route Objects,” *Embodied AI Workshop in CVPR*, 2023.
- ▶ Yue Qiu, **Yanjun Sun**, Fumiya Matsuzawa, Kenji Iwata, Hirokatsu Kataoka, “Graph Representation for Order-Aware Visual Transformation,” *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023.
- ▶ **Yanjun Sun**, Mitsuhiro Ogawa, “Evaluation of Video Compression for Facial Image Photoplethysmography in Time Series Space,” *IEEE 2nd Global Conference on Life Sciences and Technologies (LifeTech)*, 2020.

### Domestic Conference

- ▶ **Yanjun Sun**, Yue Qiu, Yoshimitsu Aoki, Hirokatsu Kataoka, “Boosting Outdoor Vision-and-Language Navigation with On-the-route Objects,” *The 26th Meeting on Image Recognition and Understanding (MIRU)*, 2023.
- ▶ **Yanjun Sun**, Ichiro Kobayashi, “Learning Corresponding Relationship of Synonymous Sentences in Latent Space through a Common Image (in Japanese),” *The 35th Annual Conference of the Japanese Society for Artificial Intelligence (JSAI)*, 2021.
- ▶ **Yanjun Sun**, Mitsuhiro Ogawa, “Effect of video compression on PPG imaging (in Japanese),” *IEICE Technical Report*, 2020.

## SKILLS

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PROGRAMMING SKILLS : Python,  $\LaTeX$ , Git.  
FRAMEWORK : Pytorch.  
RESERACH INTEREST : Multimodal, Embodied AI.  
LANUAGE : Japanese (N1,2018), English (TOEIC 830, 2019), Chinese (Native).

## SCHOLARSHIP AND AWARD

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2022-present	Keio-SPRING (JST Doctoral Program Student Support Project)
2020	The Best Presentation Award for Bachelor’s Thesis