

Rundong Luo

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EDUCATION

Peking University

Bachelor of Science in Computer Science and Technology (Turing Class)

Beijing, China

Degree anticipated in Jun 2024

- **GPA: 3.852/4.000, Ranking: 6/134**, top 5% in the department.
- **Core Courses:** Advanced Algebra I/II (99/93.5), Discrete Mathematics and Structures (99), Computer Vision (93.9), Computational Photography (100), Multimodal Learning (95), Operating System (96).
- **Selected Honors and Awards:**
 - Merit Student (top 10%), Peking University, 2022
 - China Optic Valley Scholarship (top 10%), Peking University, 2022
 - Peking University Scholarship (top 20%), Peking University, 2021
 - Award for Community or Public Service, Peking University, 2021

RESEARCH EXPERIENCE

Self-Supervised Learning and Adversarial Machine Learning

Jul. 2021 - Sept. 2022

Advisor: Prof. Yisen Wang

Peking University

- Conducted empirical and theoretical analysis on the effect of data augmentation in adversarial self-supervised learning, and proposed novel a dynamic data augmentation schedule towards self-supervised adversarial training.
- One paper on self-supervised adversarial learning accepted at ICLR 2023 as the first author.

Low-Level Vision for High-Level Applications

Apr. 2022 - Present

Advisor: Prof. Jiaying Liu

Peking University

- Investigated high level vision in low-light scenarios.
- One paper on day-night domain adaptation accepted at ICCV 2023 as the first author.
- Submitted one journal paper on day-night domain adaptation as the co-first author.

3D Scene Understanding

Jan. 2023 - Present

Advisor: Prof. Jiajun Wu

Stanford University

Sponsored by the UGVR program (20 undergraduates per year national-wide) and serve as the team leader.

- Proposed a new method for unsupervised 3D object discovery, and plan to submit a paper to ICLR 2024 as the first author.

PUBLICATIONS

* indicates equal contributions

- **Rundong Luo***, Yifei Wang*, and Yisen Wang. Rethinking the Effect of Data Augmentation in Adversarial Contrastive Learning. In ICLR, 2023. Paper, Code.
- **Rundong Luo**, Wenjing Wang, Wenhan Yang, and Jiaying Liu. Similarity Min-Max: Zero-shot Day-Night Domain Adaptation. In ICCV, 2023.
- Wenjing Wang*, **Rundong Luo***, Wenhan Yang, and Jiaying Liu. Unsupervised Illumination Adaptation for Low-Light Vision. Under review, 2023.

PATENTS

- Jiaying Liu, **Rundong Luo**, and Wenjing Wang. *An unsupervised low-light domain adaptive training method and detection method*. Patent pending, application No. CN202211129606.6

ACADEMIC SERVICE

- Journal Reviewer: IEEE TCSVT.
- Conference Reviewer: ICONIP.
- Teaching Assistant: Practice of Programming in C&C++ (PKU, Spring 2023).

TECHNICAL SKILLS

- Programming languages: Python, C&C++
- Deep learning framework: PyTorch
- Language: Chinese (native), English (proficient, TOEFL 113)