Rundong Luo

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Education

Peking University — Beijing, China
Bachelor of Science in Computer Science and Technology (Turing Class) — 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 5%), Peking University, 2022
  China Optic Valley Scholarship (top 5%), Peking University, 2022
  Peking University Dean's Scholarship, Peking University, 2022
  Peking University Scholarship, Peking University, 2021
  Award for Community or Public Service, Peking University, 2021
  Freshman Scholarship, Peking University, 2020

Research Experience

Self-Supervised Learning and Adversarial Machine Learning — Jul. 2021 - Sept. 2022
Advisor: Prof. Yisen Wang — Peking University

- Provided empirical and theoretical analysis on the effect of data augmentation in adversarial self-supervised learning. Proposed 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

- Studied high level vision in low-light scenarios.
- One patent pending on day-night domain adaptation.
- One paper on day-night domain adaptation accpeted 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.

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)