

# 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: 3.852/4.0, Ranking: 5/282**, top 2% among CS/AI major students.
- **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:**
  - Chinese National Scholarship (top 0.2%), Peking University, 2023
  - Merit Student Pacemaker (top 5%), Peking University, 2023
  - China Optic Valley Scholarship (top 10%), Peking University, 2022
  - Merit Student (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 first-author paper on self-supervised adversarial learning accepted at ICLR 2023.

### 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 first-author paper on day-night domain adaptation accepted at ICCV 2023 and further chosen for an oral presentation (152/8088).
- 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 novel approach for unsupervised 3D object discovery.
- Submitted one conference on 3D object discovery 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.
- 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)