

# Yubo Huang

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## Education

### Laurentian University

Master of Science in Computational Sciences

Sep 2023 – Jan 2025

Sudbury, Ontario, Canada

- GPA 9.30/10
- Courses: Machine Learning/Deep Learning, Image Proc & Comp Vision, etc.

### Beijing University of Posts and Telecommunications

Master of Engineering in Materials Science and Engineering

Sep 2020 – Jun 2023

Beijing, China

- Advisors: [Prof. Zhaofeng He](#), [Prof. Peipei Li](#), and [Prof. Liuyu Xiang](#).
- GPA 3.79/4
- Computer Science Courses: Java Programming, Advanced Operating Systems, Natural Language Processing and Applications, Data Mining Experiment, and AI Computing Systems

### Beijing University of Posts and Telecommunications

Bachelor of Science in Applied Physics

Sep 2016 – Jun 2020

Beijing, China

- GPA 76.86/100, Rank 43/55
- Computer Science Courses: The C Programming Language, Data Structures, Computational Physics and Practice, and Scientific Computing and Fortran

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## Publications

- **Yubo Huang**, Jia Wang, Peipei Li, Liuyu Xiang, Peigang Li, and Zhaofeng He. Generative Iris Prior Embedded Transformer for Iris Restoration. In 2023 IEEE International Conference on Multimedia and Expo (ICME), Brisbane, Australia, 2023 (**Oral**).
- Jia Wang, Liuyu Xiang, **Yubo Huang**, Peipei Li, Yufeng Xia, Qing Tian, and Zhaofeng He. Prior-guided Blind Iris Image Restoration Algorithm. Computer Science, 2023, 50(12): 148-155. (in Chinese)

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## Experience

### University of Alberta

Research Intern, supervised by Prof. Li Cheng

Jun 2025 – Present

Edmonton, Alberta, Canada

- Built a multi-view phone camera system for motion capture.
- Implemented a multi-view motion capture pipeline.
- Reproduced a motion capture method based on 6 IMUs.

### ColAI

Research Volunteer, advised by [Dr. Enmao Diao](#)

Nov 2023 – Mar 2025

Remote

- [Pixel-Pair-Encoding](#) Adapts byte pair encoding from natural language processing to image modality.
- [Neural-Data-Compression-with-Byte-Pair-Encoding](#) Integrates byte pair encoding into neural data compression.
- Neural-Data-Compression-Pipeline Constructs a pipeline incorporating major neural data compression models for large-scale experiments.

### Beijing University of Posts and Telecommunications

Teaching Assistant

Sep 2020 – Aug 2021

Beijing, China

- Instructed students in probability theory and mathematical statistics.

### New Studios Media Group, Inc.

Test Intern

Jan 2021 – Mar 2021

Beijing, China

- Tested and documented software defects.

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## Skills

**Programming Languages:** Python, Java

**Tech Skills:** Neural Data Compression, Deep Learning Engineering, Image Restoration

**English Language Proficiency:** Professional working proficiency (CELP 9)

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## Student Work

**Beijing University of Posts and Telecommunications**

Captain of School of Science and School of Cyberspace Security Basketball Team

Sep 2018 – Dec 2018

Beijing, China

**Beijing University of Posts and Telecommunications**

Member of The Folk Orchestra, High-level Art Troupe

Sep 2018 – Apr 2019

Beijing, China

**Beijing University of Posts and Telecommunications**

Deputy Minister of Art, Student Union, School of Science

Sep 2017 – Jun 2018

Beijing, China