

# Yubo Huang

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## Education

### Laurentian University

MSc Computational Sciences - Course based

Sep 2023 – Present  
Sudbury, Ontario, Canada

### Beijing University of Posts and Telecommunications

Master of Engineering in Materials Science and Engineering

Sep 2020 – Jun 2023

Beijing, China

- Advised by Prof. Zhaofeng He, Prof. Peipei Li, and Prof. Liuyu Xiang.
- GPA 3.79/4, Academic Scholarship 2022, 2021, and 2020
- Computer Science Courses: Java Programming 84, Advanced Operating Systems 90, Natural Language Processing and Applications 87, Data Mining Experiment 80, and AI Computing Systems 92

### 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 80, Data Structures 74, Computational Physics and Practice 81, and Scientific Computing and Fortran 91
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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. 2023 IEEE International Conference on Multimedia and Expo (ICME), Brisbane, Australia, 2023, pp. 510-515, doi: 10.1109/ICME55011.2023.00094.

- Proposed an iris restoration method called Gformer, a U-shaped network with an encoder-decoder structure. Connected the encoder and the decoder with the iris feature modulator.
  - Employed Transformer blocks in the encoder, pretrained generative iris prior, and embedded it to the decoder.
  - Conducted extensive experiments whose results showed that our Gformer outperforms state-of-the-art methods for restoring iris images that suffered complex degradation and improving recognition performance.
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## Internship Experience

### New Studios Media Group, Inc.

Test Intern, Entertainment Team

Jan 2021 – Mar 2021

Beijing, China

- Detected and located software vulnerabilities and maintained documentation and servers.
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## Student Work

### Beijing University of Posts and Telecommunications

Member of The Folk Orchestra, High-level Art Troupe

Sep 2018 – Apr 2019

Beijing, China

- Played the Erhu, a traditional Chinese instrument.

### Beijing University of Posts and Telecommunications

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

Sep 2018 – Dec 2018

Beijing, China

- Led the team to train and compete.

### Beijing University of Posts and Telecommunications

Deputy Minister of Art, Student Union, School of Science

Sep 2017 – Jun 2018

Beijing, China

- Choreographed and directed a drama representing School of Science.
  - Recruited and organized the School of Science Choir.
  - Organized School of Science Singer Competition.
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## Skills

**Programming Languages:** Python, Java, C, Fortran, HML, CSS, JavaScript

**Tech Skills:** Image Restoration, Iris Recognition, Web Application Development

**English Language Proficiency:** IELTS 6.0 (08/JAN/2023), International Language Academy of Canada (ILAC) level 17