

# Yubo Huang

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## Education

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| <b>Laurentian University</b><br>Master of Science in Computational Sciences - Course based  | Sep 2023 – Present<br>Sudbury, Ontario, Canada |
| <b>Beijing University of Posts and Telecommunications</b><br>Master of Engineering in Materials Science and Engineering <ul style="list-style-type: none"><li>Advised by Prof. Zhaofeng He, Prof. Peipei Li, and Prof. Liuyu Xiang.</li><li>GPA 3.79/4, Academic Scholarship 2022, 2021, and 2020</li><li>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</li></ul> | Sep 2020 – Jun 2023<br>Beijing, China          |
| <b>Beijing University of Posts and Telecommunications</b><br>Bachelor of Science in Applied Physics <ul style="list-style-type: none"><li>GPA 76.86/100, Rank 43/55</li><li>Computer Science Courses: The C Programming Language 80, Data Structures 74, Computational Physics and Practice 81, and Scientific Computing and Fortran 91</li></ul>   | Sep 2016 – Jun 2020<br>Beijing, China          |
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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**).
- 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

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| <b>New Studios Media Group, Inc.</b><br>Test Intern, Entertainment Team <ul style="list-style-type: none"><li>Detected and located software vulnerabilities and maintained documentation and servers.</li></ul> | Jan 2021 – Mar 2021<br>Beijing, China |
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## Student Work

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| <b>Beijing University of Posts and Telecommunications</b><br>Member of The Folk Orchestra, High-level Art Troupe <ul style="list-style-type: none"><li>Played the Erhu, a traditional Chinese instrument.</li></ul>   | Sep 2018 – Apr 2019<br>Beijing, China |
| <b>Beijing University of Posts and Telecommunications</b><br>Captain of School of Science and School of Cyberspace Security Basketball Team <ul style="list-style-type: none"><li>Led the team to train and compete.</li></ul>  | Sep 2018 – Dec 2018<br>Beijing, China |
| <b>Beijing University of Posts and Telecommunications</b><br>Deputy Minister of Art, Student Union, School of Science <ul style="list-style-type: none"><li>Choreographed and directed a drama representing School of Science.</li><li>Recruited and organized the School of Science Choir.</li><li>Organized School of Science Singer Competition.</li></ul> | Sep 2017 – Jun 2018<br>Beijing, China |
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## Skills

**Programming Languages:** Python, Java, C, Fortran, HTML, CSS, JavaScript  
**Tech Skills:** Image Restoration, Iris Recognition, Web Application Development  
**English Language Proficiency:** International Language Academy of Canada (ILAC) level 17, IELTS 6.0 (08/JAN/2023)