Michael He

mhe41981@uvic.ca

EDUCATION

University of Victoria   **Victoria Canada**
Master of Data Science   *2024.09-Present*
- Courses: Optimization of Machine Learning, Data Modelling…

Hohai University   **Changzhou China**
Bachelor of Computer Science and Technology   *2017.09-2021.06*
- GPA: 4.44/5.0
- Average Score: 85.79
- Courses: Data Structure, Pattern Recognition, Advanced Mathematics, Linear Algebra, Discrete Mathematics, Probability and Statistics…

PROJECT EXPERIENCE

Domain Adaptation Object Detection   *2021.09-2022.06*
- Adopted Vit as the Backbone instead of CNN and applied Cross-Attention to extract domain-invariant features for domain adaptation object detection tasks.

Violence Behavior Detection under Complex Backgrounds   *2020.12-2021.04*
- Adopted 3D-CNN as the Backbone, fine-tuned and continued training the model to improve its generalization performance, and built a real-time video abnormal behavior detection interface.
- Patent published: "Method, system, apparatus, and readable storage medium for monitoring violent behavior detection," Patent No. CN202210415750.X87, DOI:10.19392/j.cnki.1671-7341.202004081.

Intelligent Care Robot for Empty Nest Elderly   *2018.12-2019.05*
- Collected pictures of water dispensers and air conditioners, marked bounding boxes using labelme, used the Yolo v3 framework, froze the Backbone weights, modified the classification network category, fine-tuned the network, and enabled it to detect new furniture categories.

CAMPUS ACTIVITY

- 2018-2020 Office Director of the Student Art Troupe of Hohai University
- Guitarist of Hohai University Nanmen Band
- Electric Bassist of Longcheng Symphony Orchestra in Changzhou City

HONORS AND AWARDS

- 2021 Chongqing University Class A Scholarship (Recommended exemption from graduate entrance examination)
- 2017-2018 Hohai University Art and Sports Excellence Scholarship
- 2017-2018 Hohai University Academic Excellence Scholarship
- Top Ten Bands at the First Nanjing University Student Music Festival in 2018.