

# Yiping Wang

yiping.wang@uwaterloo.ca | <https://yipingwang.ca> | [github.com/yiping-wang](https://github.com/yiping-wang) |  Permanent Resident

## EDUCATION

### University of Waterloo

*Master of Mathematics in Computer Science (91%)*

Waterloo, Ontario, Canada

Sept. 2021 – *Expected Aug. 2023*

### University of Victoria

*Honours Bachelor of Science in Computer Science (91.68%)*

Victoria, British Columbia, Canada

Sept. 2017 – Apr. 2021

## MACHINE LEARNING EXPERIENCE

### University of Zürich

*Research Intern*

- Automatic radiology report generation from chest X-ray images.

### Google

*Research Intern*

- Vision Transformer for image classification and object detection.

### University of Waterloo

*Research Assistant*

- Weakly-supervised semantic segmentation for biomedical images.

### University of Victoria

*Research Assistant*

- Automatic training environments generation to improve generalization of Reinforcement Learning algorithms.

### Imagia Canexia Health

*Research Intern*

- Generative models for lung 3D CT-scans and disentangled adversarial inference.

### University of British Columbia

*Research Intern*

- Patch-level and WSI-level classification for ovarian carcinoma whole-slide pathology images.

### University of Victoria

*Research Intern*

- Patch-level tumour segmentation for the liver carcinoma whole-slide pathology images.

Victoria, British Columbia, Canada

Sept. 2020 – Apr. 2021

Montréal, Québec, Canada

May 2020 – Dec. 2020

Vancouver, British Columbia, Canada

Sept. 2019 – Apr. 2020

Victoria, British Columbia, Canada

May 2019 – Aug. 2019

## PUBLICATIONS

Multi-agent Summative Assessment Improvement for Unsupervised Environment Design, ICML 2021 Workshop

Conditional Generation of Medical Images via Disentangled Adversarial Inference, Medical Image Analysis

CT-SGAN: Computed Tomography Synthesis GAN, MICCAI 2021 Workshop

Classification of Ovarian Carcinoma Whole-Slide Pathology Images Using Deep Transfer Learning, MIDL 2020

Synthesis of diagnostic quality cancer pathology images, Journal of Pathology

## SOFTWARE DEVELOPMENT EXPERIENCE

### Global Reach Group

*Software Developer Intern*

- Data engineering with ETL and created CI/CD pipelines for Gradle and .NET Core projects.

Victoria, British Columbia, Canada

May 2021 – Aug. 2021

### Global Reach Canada

*Software Developer Intern*

- Development of a foreign exchange trading and payment system using Angular and C# ASP.NET Core.

Victoria, British Columbia, Canada

Sept. 2018 – Dec. 2018

### Kinsol

*Software Developer Intern*

- Development of responsive chatbot applications using Python Flask, JavaScript, jQuery, Bootstrap and Rasa.

Victoria, British Columbia, Canada

May 2018 – Aug. 2018

## AWARDS & SCHOLARSHIPS

Vector Scholarship in Artificial Intelligence 2021-2022, Vector Institute

W.E. Cowie Innovation Award 2021, Estate of Alexandra Cowie

ThinkSwiss Research Scholarship 2022, Embassy of Switzerland

Jamie Cassels Undergraduate Research Award 2020-2021, University of Victoria

## TECHNICAL SKILLS

**Languages:** Python, Java, C, C++, C#, SQL, Scala, TypeScript

**Libraries:** PyTorch, TensorFlow, NumPy, Scikit, Angular, Unity, .NET Core, Gradle, OpenCV, OpenGL

**Tools:** Git, Docker, AWS, Linux, Jenkins, L<sup>A</sup>T<sub>E</sub>X