

# Yiping Wang

[yiping.wang@uwaterloo.ca](mailto: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

### Research Intern

*Google*

- Research in Vision Transformer for image classification and object detection.

May 2022 – Aug. 2022

Kitchener, Ontario, Canada

### Research Assistant

*University of Waterloo*

- Research in high-order optimization methods for weakly-supervised semantic segmentation.

Sept. 2021 – Expected Aug. 2023

Waterloo, Ontario, Canada

### Research Assistant

*University of Victoria*

- Researched the value of training environments and generalization in Multi-agent Reinforcement Learning.

Sept. 2020 – Apr. 2021

Victoria, British Columbia, Canada

### Research Intern

*Imagia*

- Researched in generative models for lung 3D CT-scans.

May 2020 – Dec. 2020

Montréal, Québec, Canada

### Research Intern

*University of British Columbia*

- Researched in patch-level and WSI-level classification for ovarian carcinoma whole-slide pathology images.

Sept. 2019 – Apr. 2020

Vancouver, British Columbia, Canada

### Research Intern

*University of Victoria*

- Researched in patch-level tumour segmentation for the liver carcinoma whole-slide pathology images.

May 2019 – Aug. 2019

Victoria, British Columbia, Canada

## PUBLICATIONS

- Multi-agent Summative Assessment Improvement for Unsupervised Environment Design
- Classification of Epithelial Ovarian Carcinoma Whole-Slide Pathology Images Using Deep Transfer Learning
- Synthesis of diagnostic quality cancer pathology images
- Conditional Generation of Medical Images via Disentangled Adversarial Inference
- CT-SGAN: Computed Tomography Synthesis GAN

## SOFTWARE DEVELOPMENT EXPERIENCE

### Software Developer Intern

*Global Reach Group*

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

May 2021 – Aug. 2021

Victoria, British Columbia, Canada

### Software Developer Intern

*Global Reach Canada*

- Contributed to a foreign exchange trading and payment platform using Angular and C# ASP.NET Core.

Sept. 2018 – Dec. 2018

Victoria, British Columbia, Canada

### Software Developer Intern

*Kinsol*

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

May 2018 – Aug. 2018

Victoria, British Columbia, Canada

## TECHNICAL SKILLS

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

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

**Tools:** Git, Docker, AWS, Linux, Jenkins,  $\text{\LaTeX}$