

Yiping Wang

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EDUCATION

University of Waterloo

Master of Mathematics in Computer Science (GPA 3.95/4.00)

Waterloo, Ontario, Canada

Sept. 2021 – *Expected* Aug. 2023

University of Victoria

Honours Bachelor of Science in Computer Science (GPA 3.94/4.00)

Victoria, British Columbia, Canada

Sept. 2017 – Apr. 2021

MACHINE LEARNING EXPERIENCE

Google

Research Intern

- Vision Transformer for image classification and object detection.

Kitchener, Ontario, Canada

May 2022 – Aug. 2022

University of Waterloo

Research Assistant

- Weakly-supervised semantic segmentation for biomedical images.

Waterloo, Ontario, Canada

Sept. 2021 – Present

University of Victoria

Research Assistant

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

Victoria, British Columbia, Canada

Sept. 2020 – Apr. 2021

Imagia

Research Intern

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

Montréal, Québec, Canada

May 2020 – Dec. 2020

University of British Columbia

Research Intern

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

Vancouver, British Columbia, Canada

Sept. 2019 – Apr. 2020

University of Victoria

Research Intern

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

Victoria, British Columbia, Canada

May 2019 – Aug. 2019

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

PUBLICATIONS & TECHNICAL REPORTS

[Causal Class Activation Maps for Weakly-Supervised Semantic Segmentation](#), Technical Report

[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

TECHNICAL SKILLS

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

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

Tools: Git, Docker, AWS, Linux, Jenkins, L^AT_EX

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

Mathematics International Master's Award of Excellence 2021-2022, University of Waterloo

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