Yiping Wang

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Education

University of Waterloo — Waterloo, Ontario, Canada
Master of Mathematics in Computer Science (GPA 3.95/4.00) — Sept. 2021 – *Expected* Aug. 2023

University of Victoria — Victoria, British Columbia, Canada
Honours Bachelor of Science in Computer Science (GPA 3.94/4.00) — Sept. 2017 – Apr. 2021

Machine Learning Experience

University of Zürich — Zürich, Switzerland
Research Intern — *Expected* Nov. 2022 – Jan. 2023
- Automatic radiology report generation from chest X-ray images.

Google — Kitchener, Ontario, Canada
Research Intern — *Expected* May 2022 – Aug. 2022
- Vision Transformer for image classification and object detection.

University of Waterloo — Waterloo, Ontario, Canada
Research Assistant — Sept. 2021 – Present
- Weakly-supervised semantic segmentation for biomedical images.

University of Victoria — Victoria, British Columbia, Canada
Research Assistant — Sept. 2020 – Apr. 2021
- Automatic training environments generation to improve generalization of Reinforcement Learning algorithms.

imagia — Montréal, Québec, Canada
Research Intern — May 2020 – Dec. 2020
- Generative models for lung 3D CT-scans and disentangled adversarial inference.

University of British Columbia — Vancouver, British Columbia, Canada
Research Intern — Sept. 2019 – Apr. 2020
- Patch-level and WSI-level classification for ovarian carcinoma whole-slide pathology images.

University of Victoria — Victoria, British Columbia, Canada
Research Intern — May 2019 – Aug. 2019
- Patch-level tumour segmentation for the liver carcinoma whole-slide pathology images.

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 — Victoria, British Columbia, Canada
Software Developer Intern — May 2021 – Aug. 2021
- Data engineering with ETL and created CI/CD pipelines for Gradle and .NET Core projects.

Global Reach Canada — Victoria, British Columbia, Canada
Software Developer Intern — Sept. 2018 – Dec. 2018
- Development of a foreign exchange trading and payment system by Angular and C# ASP.NET Core.

Kinsol — Victoria, British Columbia, Canada
Software Developer Intern — May 2018 – Aug. 2018
- Development of responsive chatbot applications by Python Flask, JavaScript, jQuery, Bootstrap and Rasa.

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

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, LaTeX