

Yiping Wang

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EDUCATION

University of Waterloo

Master of Mathematics in Computer Science

Waterloo, Ontario, Canada

Sept. 2021 – Present

University of Victoria

Honours Bachelor of Science in Computer Science

Victoria, British Columbia, Canada

Sept. 2017 – Apr. 2021

SOFTWARE DEVELOPMENT EXPERIENCE

Software Developer Intern

Global Reach Group

- Database programming and management, and GitLab CI/CD 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

RESEARCH EXPERIENCE

Research Assistant

University of Waterloo

- Research in high-order optimization methods for weakly-supervised segmentation of biomedical images.

Sept. 2021 – Present

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 AND PROJECTS

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

MIDL, ICML, MICCAI, Media, JPath

Projects

- Deep Reinforcement Learning and Visual Computing for Crowd Navigation
- End-to-End Facial Expression Modifier
- Segmentation of Overlapping Cervical Cells by Joint Level Set Method

PyTorch, TensorFlow, NumPy, Unity

TECHNICAL SKILLS

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

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

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