

# Yiping Wang

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## EDUCATION

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### 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

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### Software Developer Intern

*Global Reach Group*

May 2021 – Present

Victoria, British Columbia, Canada

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

### Software Developer Intern

*Global Reach Canada*

Sept. 2018 – Dec. 2018

Victoria, British Columbia, Canada

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

### Software Developer Intern

*Kinsol*

May 2018 – Aug. 2018

Victoria, British Columbia, Canada

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

## RESEARCH EXPERIENCE

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### Research Assistant

*University of Waterloo*

Expect Sept. 2021

Waterloo, Ontario, Canada

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

### Research Assistant

*University of Victoria*

Sept. 2020 – Apr. 2021

Victoria, British Columbia, Canada

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

### Research Intern

*Imagia*

May 2020 – Dec. 2020

Montréal, Québec, Canada

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

### Research Intern

*University of British Columbia*

Sept. 2019 – Apr. 2020

Vancouver, British Columbia, Canada

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

### Research Intern

*University of Victoria*

May 2019 – Aug. 2019

Victoria, British Columbia, Canada

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

## PUBLICATIONS AND PROJECTS

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### Publications

Medical Imaging with Deep Learning, Journal of Pathology, Medical Image Analysis

- [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](#)

### Projects

PyTorch, TensorFlow, NumPy, Unity

- [Environment Generalization in Multi-agent Reinforcement Learning](#)
- [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](#)
- [Generalization Meets Optimization](#)

## TECHNICAL SKILLS

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

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

**Tools:** Git, Docker, AWS, Linux,  $\LaTeX$