PHOENIX YU WILKIE

Research Assistant

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PUBLICATIONS

Journal Articles

 McLachlin, Stewart et al. (2021). "Classifying spinal cord white matter using diffusion tensor imaging tractography and atlas-based labeling".
 In: Springer Nature Spinal Neuroradiology (63), pp. 373–380.

Conference Presentations

- Wilkie, Phoenix, Lukasz Itert, Dina Bassiouny Abousheishaa, et al. (2023). "Creating better whole slide image datasets: Quality control detection of out-of-focus patches in digital pathology". In: imno.ca. London, CA: Imaging Network Ontario, Poster.
- Wilkie, Phoenix et al. (2023a). "Creating better whole slide image datasets: Quality control detection of out-of-focus patches in digital pathology". In: tcairem.utoronto.ca/past-events. Toronto, CA: Temerty Center for AI Research and Education in Medicine (TCAIREM), Talk.
- (2023b). "Quality control detection of out-of-focus patches in digital pathology". In: digitalpathologyassociation.org. Orlando, FL, USA: Digital Pathology Association, Poster.
- Wilkie, Phoenix, Stewart McLachlin, et al. (2018). "Optimizing an executable automated pipeline for the analysis and visualisation of spinal cord tracts from diffusion tensor imaging". In: Toronto, CA: SRI, Poster.
- Wilkie, Phoenix Yu et al. (2016). "3D Scanning and Printing of Transparent Facial Orthoses". In: Toronto, CA: AAMC, Poster.

EXPERIENCE

PhD Student

Department of Medical Biophysics, Temerty Faculty of Medicine, University of Toronto

Example 2021 - present

- ♥ Toronto, Ontario, CA
- Developing quality control pipelines for digital pathology slides using machine learning.
- Creating weakly supervised learning models for ductal carcinoma in situ recurrence detection.

Software Developer Dubly

May 2020 - September 2020

♥ Toronto, Ontario, CA

• Creating Python OpenCV software for 3D anatomically correct animation of human skull anatomy and Python Blender scripting for automated animation and artificial intelligence integration.

Research Assistant

Orthopaedic Biomechanics Lab - Sunnybrook Research Institute (SRI)

June 2018 - June 2019

♥ Toronto, Ontario, CA

• 3D design and rapid prototyping of surgical tools.

ACHIEVEMENTS

• Ontario Graduate Scholarship \$15,000.00 scholarship at the University of Toronto (2023-Present)

Best Deep Learning Poster Winner Cash Prize
Imaging Network Ontario (ImNO March 2023)

Queen Elizabeth II/Graduate Scholarships in Science and Technology \$15,000.00 scholarship at the University of Toronto (2022-2023)

Chancellor's Award Winner
Full undergraduate scholarship at
Queen's University (2016-2021)

• Dean's Honour Roll

Queen's University (2016-2021)

President's Scholar of Excellence University of Toronto (declined)

The Cansbridge Fellowship
Cohort of 2020 - Trailblazers

Venture for Canada Funding Grant Summer Cohort of 2020 - Dubly

NSERC USRA
Summer 2020 - Queen's University,
Dr. Gabor Fichtinger

SHAD Valley International Alumni Lakehead University (2015)

EDUCATION

B. Cmp. Hons. in Biomedical Computing Specialisation Queen's University

m Sept 2016 - June 2021

4.00 GPA | Professional Internship Year

PhD. in Medical Biophysics University of Toronto

Espt 2021 - present

4.00 GPA

- Optimizing custom 3D Slicer Modules for surgical navigation.
- Operation of CT scanners and preparation of animal specimens.

Research Assistant

Perk Lab - Queen's University

September 2016 - 2020

♀ Kingston, Ontario, CA

• 3D modelling and printing for patient-specific medical phantoms.

Research Assistant

Semaphore Research Cluster - University of Toronto

September 2015 - August 2017

♥ Toronto, Ontario, CA

- Creating a better, more cost-effective alternative for Transparent Facial Orthosis for severe burn victims with 3D technology.
- Bespoke Brain Project to create patient-specific medical models.

Research Assistant

Advanced Perioperative Imaging Lab - UHN Toronto General Hospital

September 2015 - August 2017

▼ Toronto, Ontario, CA

• Segmentation of DICOM images for 3D patient-specific heart models.

LANGUAGES

English French Mandarin



ABOUT ME

