Yongqi Wang

Education

- **Centrum Wiskunde & Informatica (CWI)** — **Amsterdam, Netherlands**
  PhD, Machine Learning, supervised by Prof. dr. Peter Grünwald — *Dec 2024 - Present*
- **Eidgenössische Technische Hochschule Zürich (ETHz)** — **Zürich, Switzerland**
  MSc, Computational Biology and Bioinformatics, supervised by Prof. dr. Sara van de Geer — *Sep 2018 - Jun 2023*[1]
- **The Hong Kong Polytechnic University (PolyU)** — **Hong Kong, China**
  BSc (Hons), Applied Biology with Biotechnology, Minor in Applied Mathematics — *Sep 2014 - May 2018*
- **The University of Waterloo (UWaterloo)** — **Waterloo, Canada**
  Exchange — *Jan 2017 - May 2017*

Experience

- **Master's Thesis** at ETHz — *Oct 2022 - Mar 2023*
  - Surveyed the approximation properties of two-layer neural networks (2NN)
  - Characterized function spaces where 2NN is effective in approximation
- **Lab Rotation** at CoBi — *Oct 2020 - Dec 2020*
  - Adapted 2D cellular simulation framework (LBIBCell) for morphogen gradient detection
  - Parameter screening for viable synthetic tissues on Euler cluster
- **Lab Rotation** at CoBi — *Apr 2020 - Jul 2020*
  - Benchmarked different 3D surface re-meshing algorithms for complex cellular structures
  - Implemented Poisson disc surface sampling and re-meshing in C++(VTK)
- **Lab Rotation** at Bachlan — *Apr 2019 - Jul 2019*
  - Built a benchmark framework (CongiBench) for cognitive models with SciUnitin Python
  - Added a CI/CD pipeline and distribution for the Python package
- **Hong Kong Polytechnic University** — **Hong Kong, China**
  Research Assistant @ Dr Ko Chi-bun, Ben — *Feb 2018 - Jul 2018*
  - Classified protein binding patterns in ChIP-seq data
  - Identified differential binding events and potential gene targets
- **China Agricultural University** — **Beijing, China**
  Research Assistant @ Prof. Xun Suo — *Apr 2016 - Aug 2016*
  - Built and maintained an internal server for microarray analysis
  - Versioned R/Bioconductor packages for common analysis workflows

Awards

- Dean's List of Outstanding Students, Faculty of Applied Science and Textiles, **PolyU** — 2017
- Work-Integrated Education Offshore Sponsorship, **PolyU** — 2017
- Wong Tit-shing Student Exchange Scholarship, **PolyU** — 2017

Publications

Zhou, Yuanyuan, Zhongguo Zhou, Dessy Chan, Po yee Chung, **Yongqi Wang**, Albert Sun chi Chan, Simon Law, Kim hung Lam, and Johnny Cheuk On Tang. "The Anticancer Effect of a Novel Quinoline Derivative 91b1 through Down-regulation of *Lumican*". *International Journal of Molecular Sciences*, vol. 23, no. 21, Jan. 2022, p. 13181. https://doi.org/10.3390/ijms232113181.

Languages & Technical Skills

Mandarin (C2), Cantonese (C2), English (C2); Python, R, Shell, C++, LaTeX, git

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[1] I suffered from a major accident, and subsequently 2 surgeries and rehabilitation in 2021 but fortunately, I have made a full recovery!