

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 *Sep 2018 - Jun 2023*
- **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

- **ETH Zürich** **Zürich, Switzerland**
Master's Thesis @ Prof. dr. Sara van de Geer *Oct 2022 - Mar 2023*
 - Surveyed the approximation properties of two-layer neural networks (2NN)
 - Characterized function spaces where 2NN is effective in approximation
- **ETH Zürich** **Zürich, Switzerland**
Lab Rotation @ CoBi *Oct 2020 - Dec 2020*
 - Adapted 2D cellular simulation framework (LBIBCell) for morphogen gradient detection
 - Parameter screening for viable synthetic tissues on Euler cluster
- **ETH Zürich** **Zürich, Switzerland**
Lab Rotation @ 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)
- **Universität Zürich** **Zürich, Switzerland**
Lab Rotation @ bachlab *Apr 2019 - Jul 2019*
 - Built a benchmark framework for cognitive models with SciUnit in 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

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>.

Technical Skills

Python, R, Shell, C++, L^AT_EX, git, Docker