

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 (ETH)** **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** **Waterloo, Canada**
Exchange Jan 2017 - May 2017
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Research Experience

- **Master's Thesis** at ETH, supervised by 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
 - **Lab Rotation** at CoBi, ETH 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, ETH 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 Bachlab, Universität Zürich Apr 2019 - Jul 2019
 - Built a benchmark framework (CongiBench) for cognitive models with SciUnit in Python
 - Added a CI/CD pipeline and distribution for the Python package
 - **Research Assistant** at Prof. Ko Chi-bun, Ben's lab, PolyU Feb 2018 - Jul 2018
 - Classified protein binding patterns in ChIP-seq data
 - Identified differential binding events and potential gene targets
 - **Research Assistant** at Prof. Xun Suo's lab, China Agricultural University Apr 2016 - Aug 2016
 - Built and maintained an internal server for microarray analysis
 - Versioned R/Bioconductor packages for common analysis workflows
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Selected Awards and Honours

- Dean's List of Outstanding Students, Faculty of Applied Science and Textiles, **PolyU** 2017
 - Wong Tit-shing Student Exchange Scholarship, **PolyU** 2017
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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, L^AT_EX, git, C++ (novice)