

Yongqi Wang

Education

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| • Centrum Wiskunde & Informatica (CWI)
<i>PhD, Machine Learning, supervised by Prof. dr. Peter Grünwald</i> | Amsterdam, Netherlands
<i>Dec 2024 - Present</i> |
| • Eidgenössische Technische Hochschule Zürich (ETHz)
<i>MSc, Computational Biology and Bioinformatics, supervised by Prof. dr. Sara van de Geer</i> | Zürich, Switzerland
<i>Sep 2018 - Jun 2023¹</i> |
| • The Hong Kong Polytechnic University (PolyU)
<i>BSc (Hons), Applied Biology with Biotechnology, Minor in Applied Mathematics</i> | Hong Kong, China
<i>Sep 2014 - May 2018</i> |
| • The University of Waterloo (UWaterloo)
<i>Exchange</i> | Waterloo, Canada
<i>Jan 2017 - May 2017</i> |

Experience

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| • Master's Thesis at ETHz | <i>Oct 2022 - Mar 2023</i> |
| – Surveyed the approximation properties of two-layer neural networks (2NN) | |
| – Characterized function spaces where 2NN is effective in approximation | |
| • Lab Rotation at CoBi, ETHz | <i>Oct 2020 - Dec 2020</i> |
| – Adapted 2D cellular simulation framework (LBIBCell) for morphogen gradient detection | |
| – Parameter screening for viable synthetic tissues on Euler cluster | |
| • Lab Rotation at CoBi, ETHz | <i>Apr 2020 - Jul 2020</i> |
| – 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 | <i>Apr 2019 - Jul 2019</i> |
| – 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 | <i>Feb 2018 - Jul 2018</i> |
| – 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 | <i>Apr 2016 - Aug 2016</i> |
| – Built and maintained an internal server for microarray analysis | |
| – Versioned R/Bioconductor packages for common analysis workflows | |

Awards

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| • 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++, L^AT_EX, git

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