Yongqi WANG

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Education

- **ETH Zürich** — **Zürich, Switzerland**
  D-BSSE, M.S. Computational Biology and Bioinformatics — *Sep 2018 - Jun 2021 (Expected)*
- **The Hong Kong Polytechnic University** — **Hong Kong, China**
  D-ABCT, B.S. Applied Biology with Biotechnology, Minor in Appliled Mathematics — *Sep 2014 - May 2018*
- **The University of Waterloo** — **Waterloo, Canada**
  D-BIOL, Exchange student — *Jan 2017 - May 2017*

Experience

- **ETH Zürich** — **Zürich, Switzerland**
  Lab Rotation @ CoBi — *Oct 2020 - Dec 2020*
  - Adapted 2D cellular simulation framework (LBIBCell) for morphogen gradient detection
  - Added support for various boundary condition in computational fluid simulation in LBIBCell
  - Parameter screening for viable synthetic tissue on Euler cluster
- **ETH Zürich** — **Zürich, Switzerland**
  Lab Rotation @ CoBi — *Apr 2020 - Jul 2020*
  - Bechmarked different 3D surface re-meshing algorithm for complex geometry
  - Implemented a re-meshing algorithm in 3D cell simulation framework in C++
  - Integrated the surface re-meshing, IO (vtk) in the simulation framework
- **Universität Zürich** — **Zürich, Switzerland**
  Lab Rotation @ bachlab — *Apr 2019 - Jul 2019*
  - Created a benchmark framework for cognitive models in based on SciUnit in Python
  - Helped integrate a CI/CD pipeline and distribution for Python package distribution
- **Hong Kong Polytechnic University** — **Hong Kong, China**
  Research Assistant — *Feb 2018 - Jul 2018*
  - Classification of protein binding pattern in ChIP-seq data
  - Visualization to facilitate graphical representation of the medical data in Python, R
  - Identified differential binding events and potential gene targets
- **Beijing Novogene Technology Co. Ltd.** — **Beijing, China**
  Summer Data Analyst Internship — *Apr 2017 - Aug 2017*
  - Maintenance of data pre-processing pipeline for NGS data
  - Revised and maintained a RNA-seq analysis pipeline
  - Development/Testing of an visual data pipeline editor
- **China Agricultural University** — **Beijing, China**
  Research Assistant — *Apr 2016 - Aug 2016*
  - Built an internal server for microarray analysis usage
  - Incorporated common Bioconductor packages for the original microarray analysis workflow.

Awards

- Dean's List of Outstanding Students, Faculty of Applied Science and Textiles, PolyU — 2017

Technical Skills

Python, R, Shell, C++, Google Cloud Platform, LaTeX, git, Docker