

# TANG SHIYING(Ali)

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## EDUCATION

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### MSc. in Genomics and Bioinformatics

Sep 2023 – now

*The Chinese University of Hong Kong*

- Practical experience in ChIP-seq analysis, variant calling, and genome assembly pipelines.
- Experienced in handling NGS data, with some experience in Nanopore data for assembly.
- Familiar with programming languages such as R and Python for data analysis and visualization.
- Skilled in using Linux systems and bioinformatics tools for analysis.

### BSc. in Biology Science

Sep 2011 – Jul 2015

*Xiamen University*

- Gained a foundational understanding of biological concepts and principles.

## PROJECT EXPERIENCE

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### Research Assistant

Mar 2022 – Sep 2022

*College of Biology, Hunan University*

- Participated in a project aiming at finding distribution patterns of microsatellites from Whole Genome Sequencing (WGS) data.
- Streamlined secondary data analysis and visualization procedure by developing python programs.
- Developed a custom crawler program to extract data from genome browsers for the identification of unique micro-satellite patterns.
- Implemented a two-layer CNN image classification model to process generated images, specifically focusing on micro-satellites located in a designated area.

## WORK EXPERIENCE

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### Curriculum Designer

Mar 2019 – Mar 2022

*Xiamen Qianshi Technology Co., Ltd*

- Participated as a key designer in development of online best-selling lessons.
- Designed and developed cartoon scripts, interactive games and innovative teaching materials.
- Collaborate closely with other departments to achieve project goals and ensure smooth coordination.

### Hiring Staff

Mar 2017 – Mar 2019

*Xiamen Qianshi Technology Co., Ltd*

- Identified and contacted American candidates, inviting them to interview and training session.

### Physics Teacher

Jun 2015 – Jul 2016

*TAL Education Group*

- Taught high school physics.

## SKILLS

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- Programming: Python (Intermediate), R (Basic), Bash/Shell (Basic)
  - Data Analysis: Data Science, NGS Data Analysis Pipelines
  - Machine Learning: Basic knowledge, including building CNN image classification models
  - Strong communication and presentation skills