

# YAO-CHUNG CHEN (Yao)

Bioinformatics Ph.D. candidate at [Nowick Lab, Freie Universität Berlin, Germany](#), passionate about applying machine learning in biomedical research. Seeking roles as Data Scientist, Machine Learning Engineer, or Software Engineer. Excited to contribute expertise to a dynamic team.



## WORK EXPERIENCE

Nov. 2022  
|  
Sep. 2022

### Machine Learning Internship



Miltenyi Biotec, Bergisch Gladbach, Germany

- Developing machine learning model using Tidymodels framework to predict cell-types from flow cytometry data.
- Managing project with agile principle using Jira and Bitbucket

Sep. 2020  
|  
Jun. 2018

### Research Assistant



National Yang-Ming Chiao-Tung University, Taiwan

- Technical reviewer of *Bioinformatics with Python Cookbook, Hands-On Bioinformatics with Python* and *R Bioinformatics Cookbook* (Packt Publishing Ltd)
- TA in Computing and Data Science Experiments
- Analyzing electronic health record data
- NGS data analysis and 3'UTR tools comparison



## EDUCATION

Current  
|  
Oct. 2020

### Ph.D. Candidate, Bioinformatics

Department of Mathematics and Computer Science



Freie Universität Berlin, Germany

- Developing software to calculate correlations of KRAB-ZNF genes and transposable elements between species
- Developing Flask application connecting with MySQL database and FastAPI

Jan. 2015  
|  
Sep. 2012

### Master of Science

Institute of Entomology



National Taiwan University, Taiwan

- Thesis: Expression of unique and shared sets of genes for asexual and sexual oogenesis during parthenogenetic and viviparous development of pea aphid, *Acyrtosiphon pisum*

## Software

[TEKRABber](#) (Bioconductor package)

[Antifungal Linguist](#) {Language model for drug discovery}

## Programming Skills



## Certificates

[Google Data Analytics Specialization](#) {Google, Coursera}

[Agile Project Management](#) {Coursera}

[DeepLearning.AI TensorFlow Developer Specialization](#) {Coursera}

## Languages

Taiwanese Mandarin: Native

English: Proficient

German: Beginner