

Ming-Ju Kuo

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Education

- **Technical University of Dresden** Dresden, Germany
MSc in Bioengineering 10/2016 – 09/2019
 - Course: Applied Bioinformatics, Structural and Computational Biology
- **National Taiwan University** Taipei, Taiwan
BSc in Life Science and Geosciences 09/2010 – 06/2015
 - Course: Introduction to Computer Science, Statistics and Computer Programming (C++)

Professional Experience

- **National Chiao Tung University** Hsinchu, Taiwan
Bioinformatician 04/2020 – 07/2020
 - Constructed the pipeline for single-cell analysis (Cell Ranger and Seurat).
- **Technical University of Dresden** Dresden, Germany
Student Assistant 09/2018 – 12/2019
 - **Master Thesis - Correlation-based detection of activation/repression transcription factor regulation from gene expression:** Predicted the regulatory types of transcription factors by applying various correlation-based method (Pearson, Spearman and distance correlation, etc.) to cancer datasets.
 - **Lab Project - PC-corr application for developmental gene expression pattern analysis:** Unfolded the gene expression patterns from gene expression profiles by principal component analysis (PCA) and constructed the gene regulatory network by PC-corr methods.
 - **Article - Measuring group-separability in geometrical space for evaluation of pattern recognition and embedding algorithms:** Collected (MINST) datasets and applied the dimensionality reduction methods for the datasets.

Extracurricular Activities

Varsity Male Soft Tennis Team, Country Youth Life Study Club

Skills

Programming	Matlab, Python, C++ and Web language (JavaScript and HTML)
Language	Mandarin and English

Publications

A Acevedo, Sara Ciucci, MJ Kuo, Claudio Durán, Carlo V Cannistraci. Measuring group-separability in geometrical space for evaluation of pattern recognition and embedding algorithms ([arXiv preprint](#))