



MUXIN HUA

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EDUCATION

Hong Kong Baptist University, Hong Kong

Bachelor of Science, Physics

New York University

Master of science, Physics

TECHNICAL SKILLS

Programming: Python, LaTeX, R, SAS

Tools: Origin, Matlab, XRD

PUBLICATIONS

Epitaxial growth of Y3Fe5O12 thin films with perpendicular magnetic anisotropy

- Film Fabrication
- Data analysis with Origin

Stability and its mechanism in Ag/CoOx/Ag interface-type resistive switching device

- Film fabrication
- Device deposition
- U-I curve, R-T curve and XRD
- Data analysis and visualization

PROJECT EXPERIENCE

Predicting next-day rain in Australia using Python

- Cleaning data
- feature engineering including date, location and etc.
- build and make a better model with SVM

User retention analysis

Full-Stack Engineer

- Extract data with mysql, wangling with Python
- Presenting conclusions with various plots
- Building models with different algorithms (SVM, logistic regression, n-nearest neighbors etc.)
- Improving model behavior with random forest

Polynomial model improvement

Full-Stack Engineer

- Building a general model with lack of fit term
- Performing statistical tests using SAS
- Identifying the significant terms from test result
- Writing report explaining the model and processes

HONOR

- Biomolecular Design Competition Silver Award
- Appreciation letter from Dean