

# KUANG-TING CHANG

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## PROFESSIONAL EXPERIENCE

### **Genesis Research, Data Analyst**

Hoboken, NJ  
Feb, 2016 - Aug, 2017

- Designed, implemented and analyzed real-world data-oriented pharmaceutical studies using SAS. Acquired data from various datasets typically over 100 million unique patients' medical records.
- Provided strategies that optimize statistical efficiency and quality, ranging from descriptive to univariate statistical analyses to regression modeling. Interpreted and reported by creating dashboards in Excel.
- Developed web app with Python that facilitates identification and retrieval of medical codes, reduced need for data entry personnel by 90%.

### **Krakenprint, Co-Founder, Vendor relations manager, Taiwan Office**

Taipei, Taiwan  
Jun, 2013 - Aug, 2014

- Established an overseas branch office for US based printing company which serviced US artists with high quality printing needs, roughly \$30,000 USD of cases monthly.
- Optimized supply chain for book printing. Partnership formation with over 30 different vendors, for example: plate making, printing, cutting, and binding services providers, global shipping and order fulfillment services providers.

### **Yuan-Ze University, Research Assistant for Professor Yu-Ying Lee**

Taoyuan, Taiwan  
Sep, 2011 - Jun, 2012

- Collected and analyzed data from 10,000+ papers for research of antique auction related project focused on historical artwork and precious gems from Taiwan and China.
- Identify, analyze, and interpret patterns between publication frequency and reputation of professors working in the Chinese antiques field.

## ACADEMIC PROJECTS

### **Stock price forecasting with ARIMA model**

Programming for Data Science, NYU

New York, NY  
Dec, 2015

- Utilized Yahoo Finance's API to import the real-time financial data to conduct the stock price forecasting, lowered ACF of the residuals by 15% with corresponding and proper parameters.
- Developed a Python GUI with Tkinter, preparing data with Numpy and Pandas, visualizing the results using Matplotlib.

### **Regression for dummies**

Programming in Python, NYU

New York, NY  
May, 2015

- Performed complex numerical analysis tasks with Numpy and Pandas, producing high quality data visualizations using Matplotlib, demonstrating regression analysis of the dataset that users uploaded.

## EDUCATION

### **New York University, Graduate School of Arts and Sciences**

Master of Arts, Applied Quantitative Research

New York, NY  
Dec, 2015

- Relevant Coursework: *Programming in Python, Programming for Data Science, Data Analysis*.
- Thesis: "The Effect of Mothers' Educational Attainment on Children's School Performance", analyzed the data from the Fragile Families and Child Wellbeing Study, which followed 5,000 family over 15 years, used examine OLS regression, lagged dependent variable, and propensity score weighting models.

### **Yuan-Ze University, Department of Social & Policy Sciences**

Bachelor of Arts, Sociology

Taoyuan, Taiwan  
June, 2012

- 'Yo Xiang Scholarship', 10,000NTD grant for the student with the highest department-wide grades.

## TECHNICAL SKILLS (Sample code available at [www.ktcdata.com](http://www.ktcdata.com))

- **Advanced Python:** Data analysis and visualization with Numpy, Pandas and Matplotlib. Web developing with Django, creating web app engine and database. Web crawling with Selenium and BeautifulSoup.
- **Advanced SAS:** Creating and merging datasets, cleaning datasets, converting and reshaping data, data visualization, linear regression modeling, non-linear regression, logistic regression, creating indexes/scales with data.
- **Additional experience:** R, SQL, HTML, CSS, JavaScript, Git, Linux environment

## LANGUAGES

Native Mandarin Chinese, Intermediate Japanese (N4)