

# YANG (KEN) WU

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## EXPERIENCE

### Jr.Data Scientist

📅 November 2021 - Present 📍 D.C., USA

### Data Engineering Intern

#### Citizen Data

📅 October 2021 - November 2021

- Developed and modularized data cleaning and database automation scripts in Python (More details [www.kenwuyang.com](http://www.kenwuyang.com)).
- Developed a closed source R package for the data team and created scalable and reusable Rmarkdown report templates. (More details [www.kenwuyang.com](http://www.kenwuyang.com))
- Produced query results (Amazon Redshift (PostgreSQL)) for ad hoc request.
- Responsible for creating data visualizations in R & excel for reports (Sample report on [www.kenwuyang.com](http://www.kenwuyang.com)).
- Worked with the chief data scientist on Citizen's Democracy Reformers Model, a non-parametric look-alike algorithm that uses characteristics of democracy reforms supporters to predict which other voters are also likely to support similar democracy reforms.

### Anti-Racial Profiling Project Intern

#### Asian Americans Advancing Justice | AAJC

📅 July 2021 - October 2021 📍 D.C., USA

- Worked with a team of data scientists on building a relational database (MySQL) on cases related to the profiling and prosecution of Asian American researchers and scientists.
- Created and designed visualizations of case data using Tableau and fact sheets to be used for a report that will be published in near future.
- Responsible for data cleaning, data validating, including support for raw data preprocessing, automation and collection tasks.
- Attended meetings with Congress members as a data specialist to answer questions.

### Intern Analyst

#### Fusion Fund (Venture Capital)

📅 Summer 2020 (Remote) 📍 California, USA

- Conducted data analysis on companies in various industries. These reports, generated using Rmarkdown, included numerical figures and visualizations I produced or gleaned from various data sources to provide the team with an understanding of how disruptive technology impacts these industries.

- Participated in regular deal sourcing tasks, including conducting company research (Crunchbase, Angel-List, etc.), obtaining CEO contact information, and sending out-bound introduction emails using a mail-merge program I developed in R, which significantly increased out-reach response rate.

### Research Analyst

#### KPMG

📅 Summer 2019

📍 Beijing, China

- Selected Highlight: Initiated the engagement through an out-bound email using a mail-merge program written in R. Facilitated the due diligence process (e.g., compared the Licensing and Distribution agreement contract that company X had signed with another company with the contract our client planned to sign with company X, ensuring that no unfair provisions were included and no rights were left out) using a regular expression detection program written in Python.
- Selected Highlight: Wrote a self-contained program that generates research reports in Microsoft word for a government agency tasked with promoting foreign investments in China. The program was also incorporated by KPMG's data team into their software toolkit for future use.

## PERSONAL TRAITS

Conscientiousness

Self-motivated

Quick learner

Honesty and Integrity

Curiosity

## LANGUAGE

English

Chinese



## EDUCATION

B.A. Economics Minor in Statistics

#### Kenyon College

📅 September 2019 – May 2021

🏆 *cum laude*

Kenyon College Merit List

## PERSONAL MOTTO

Life through service.

# COURSES

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## Economics/Finance

- Microeconomics Utility Theory, Redistributive Policy, Consumer Theory, Game Theory, Public Welfare, Taxation and Subsidy etc.
- Macroeconomics GDP, Monetary Theory, Labor Market and Unemployment, Inflation, Growth Theory, etc.
- Money and Financial Markets (The US Banking system, Federal Reserve System, Public Financing, Coupon Bond, Fixed Payment Loan, Money Supply, Risk Structure, Bloomberg Terminal, etc.
- Portfolio Theory Efficient Market Hypothesis, CAPM, Markowitz model, Sharpe Ratio, etc.
- Financial Accounting (Balance sheet, Income statement, and Cash Flow Statement)
- Mathematical Economics (Utility Maximization, Constrained Optimization, Dynamic Analysis, Linear Models, etc.)



## Math

- Probability Theory (Discrete and Continuous Distributions, Expectations, etc.)
- Combinatorics (Set Operations, Counting Principle, Boolean Algebra, etc.)
- Calculus (I, II, III)
- Linear Algebra (Matrix Algebra and Operations)



## Statistics/Data Analysis

- Probability Distribution Fitting
- Regression Analysis (Linear and Non-linear, Multiple Regression, Polynomial Regression, Logistic Regression, Poisson Regression, etc.)
- Analysis of Variance (One-way ANOVA, Two-way with interaction effect)
- Econometrics
- Statistical Simulation Risk Analysis in Insurance, Monte Carlo Simulation

# SOFTWARE SKILLS

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- Googling
- Bilingual proficiency in R (Rstudio) and Python (VS code)
- SQL (PostgreSQL and MySQL) using TablePlus and MySQL workbench
- Working knowledge of C++
- Stata for econometric analysis and Microsoft Excel for financial modeling
- Maple and MATLAB for solving mathematical problems
- Tableau for data visualization

# SAMPLE WORK

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- Interactive Portfolio Dashboard  
<https://www.kenwuyang.com/en/post/customizable-portfolio-dashboard/>
- Modeling Prostate-Specific Antigen Levels in Cancer Patients  
<https://www.kenwuyang.com/en/project/modeling-prostate-specific-antigen-levels/>
- Other sample code and projects are also available via my personal website and public Github repository, which are listed in the headings.