

Python Programming - UCI – 100% Online Courses. Learn the Most In-De




Message

Kehsin (Esther) Su, ASA · 1st

Data Scientist at BCG; Associate of the Society of Actuaries  
San Francisco Bay Area · 500+ connections · [Contact info](#)

 BCG Digital Ventu

 University of Cali  
Berkeley

Yu-Ting, you're skilled in R (Programming Language)



You both studied at National Taiwan University

**Want to endorse Kehsin (Esther) for R (Programming Language)?**

Skip

Highlights



**You both studied at 國立臺灣大學**

Kehsin (Esther) started at 國立臺灣大學 after you started

[Say hello](#)

About

4.5 years of working experience in analytics roles at startup, research institution, consulting and insurar

company.

Experienced with big data framework and end-to-end machine learning syst ... see more

## Experience



### Data Scientist

BCG Digital Ventures

Feb 2019 – Present · 1 yr 9 mos

Computer vision project(confidential): object detection/tracking

Credit risk forecasting project (confidential): default forecasting

Natural language process project(confidential): question-answering, machine reading comprehension(MRC), learning to rank(LTR)

POC: data gap makeup(imputation, web-scraping), recommendation(reinforcement learning cold-start)

\* Algorithms: RetinaNet, optical flow, logistics regression, GRU, CNN, RNN, stacking, BiDAF, kNN, decision tree, Thompson sampling

\* Packages: numpy, pandas, opencv, sklearn, nltk, spacy, allennlp, elasticsearch

\* Industries: manufacturing, finance, retailer

\* Tech stack: Python, SQL, NoSQL(MongoDB), Spark

\* Tool: Azure, GCP(Kubernetes, BigQuery, DataStudio, Firestore) , AWS(S3, EC2, EMR)

[see less](#)



### Researcher, Disease Surveillance And Risk Monitoring (DiSARM) Platform

UCSF Medical Center · Part-time

Feb 2018 – Dec 2018 · 11 mos

San Francisco Bay Area

•Classified building types in Africa with OpenStreetMap to implement malaria control into the household level.

•Combined Leaflet and Shiny to visualize the classification model into a web app to deliver insights at scale



sample\_output1.png



sample\_output2.jpg



### Statistics Tutor

University of California, Berkeley · Part-time

Aug 2017 – Dec 2018 · 1 yr 5 mos

Berkeley, California

Fall 2017: Stat 2 and 20

Fall 2018: Stat 2, 20, 133, 134 and 135



### Data Scientist Intern

BCG Digital Ventures · Internship

Jun 2018 – Aug 2018 · 3 mos

Bellevue, Washington

- Developed predictive models to forecast weekly crop harvest and number of fruit loads on plants
- Predicted greenhouse water levels and dried rates with LSTM, dynamic regression, and threshold autoregression
- Implemented grey models to provide an alternative solution for new growers without enough data

\* Tech stack: Python, R

[see less](#)



### Data Scientist Intern(co-op)

Intento, Inc. · Internship

Feb 2018 – May 2018 · 4 mos

Berkeley, California

Designed a customer-facing sentiment APIs comparison experiment to distill customer satisfaction for recommendation

\* Tech stack: Python, Rest-API(Flask)

### Statistical Consultant

Department of Statistics, UC Berkeley

Aug 2017 – Dec 2017 · 5 mos

Berkeley, California

- Deal with the collinear problem on the mediation analysis project
- Recommended a nonparametric testing on Compassion Cultivation Training Questionnaire
- Assisted to perform meta-analysis in the medical research

\* Tech stack: R

[see less](#)

### Actuarial Analyst

MassMutual Mercuries Life · Full-time

Sep 2014 – Jun 2017 · 2 yrs 10 mos

Taipei City, Taiwan

- Developed the first whole life cancer insurance product (Markov chain model) in Mercurie Life
- Executed experience study, sensitivity analysis, cash flow forecasting, and simulation for investment and profit optimization

- \* Tech stack: VB, SQL, TAS, Excel
  - \* Area: GLM, survival analysis, stochastic analysis, multivariate/univariate analysis, back-test
- [see less](#)



### IT Intern

Cigna · Internship

Jun 2013 – Sep 2013 · 4 mos

Taipei City, Taiwan

- Conducted the annual computer scanning project to secure sensitive data in hundreds of local machines
- Analyzed daily system traffic data and thousands of user accounts for internal security and account management

\* Tech stack: Excel, VB, Shell

[see less](#)

[Show fewer experiences](#) ^

## Education



### University of California, Berkeley

Master of Arts (M.A.), Statistics

2017 – 2018

Advanced Probability and Statistics, Statistical Computing, Data Mining and Analytics, Statistical Models, Deep Reinforcement Learning, Natural Language Processing



### National Taiwan University

Information System Training Program, Department of Computer Science and Information Engineering, 4.0/4.0

2016 – 2016

Data structure & Advanced C Programming(A+),  
Python Programming(A+)



## National Taipei University

Bachelor's Degree, Statistics, 3.9/4.0

2011 – 2014

Activities and Societies: Free Boxing Club, Taekwondo Club

\* Finished the degree one year earlier with scholarships at age twenty

\* Nonparametric Statistical Method, Time series Analysis, Categorical Data Analysis, Survival Analysis

## Licenses & certifications



### Associate of the Society of Actuaries (ASA)

Society of Actuaries

Issued Dec 2015 · No Expiration Date



### FSA Module - Financial Modeling

Society of Actuaries

Issued Dec 2015 · No Expiration Date



### FSA Module - Financial Reporting

Society of Actuaries

Issued Dec 2015 · No Expiration Date



### FSA Module- ERM

Society of Actuaries

Issued Dec 2015 · No Expiration Date

### Structured-Product Sales Professionals

Taiwan Academy of Banking and Finance(TABF)

Issued Oct 2012 · No Expiration Date

Credential ID SP30143035

### Bank Internal Controller and Audit Professionals

Taiwan Academy of Banking and Finance(TABF)

Issued Jun 2012 · No Expiration Date

Credential ID Y330622004

### Trust Specialist

Taiwan Academy of Banking and Finance(TABF)

Issued Mar 2012 · No Expiration Date

Credential ID 001579

### Securities Investment Trust and Consulting Professionals

Securities & Futures Institute(SFI)

Issued Sep 2012 · Expired Sep 2017

Credential ID 101150405

[Show 2 more](#)
[Show less](#)

Volunteer Experience

**DataFest Volunteer**

The American Statistical Association (ASA)

Apr 2018 – Present • 2 yrs 7 mos

Education

Helped undergrad participants on programming questions, statistics questions, and brainstorming ideas

**Statistics Commencement Ceremony Volunteer**

Department of Statistics, UC Berkeley

May 2018 – Present • 2 yrs 6 mos

Education

- \* Helped to post signs and keep aisles clear during the ceremony and recessional
- \* Directed graduates into Playhouse for walkthrough/rehearsal
- \* Assisted with photos Haas Pavillion steps and lining up of BA graduates up for procession

**Reviewer (Deep RL 2018)**


UC Berkeley

Oct 2018 – Present • 2 yrs 1 mo

Education

Reviewed three Deep RL project proposals

Skills & Endorsements

 **Machine Learning** · 3

Shu-Hao( Daniel ) Chang and 2 connections have given endorsements for this skill

 **Statistical Modeling** · 1

Shu-Hao( Daniel ) Chang has given an endorsement for this skill

 **Data Mining** · 1

Shu-Hao( Daniel ) Chang has given an endorsement for this skill

Industry Knowledge

- Data Analysis
- Shell Scripting
- Statistics · 1
- Statistical Data Analysis · 2
- Research

Tools & Technologies

- Matlab · 2
- VBA · 2
- C++ · 1
- Python · 1
- Python (Programming Language)
- Eviews · 1
- Visual Basic · 1
- SQL · 2
- r · 1

in

Search

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Other Skills

- TAS · 1
- proficiency test for bank internal c... · 1
- Futures specialist
- Qualification exams for securi...
- Financial markets and professi..
- certificate for professional test
- securities investment trust and
- Time Series Analysis

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## Accomplishments

### 16 Courses

Big Data 101 • Categorical Data analysis • Computational Statistics and Probability • Data str  
Advanced C++ Programming • Deep Learning in Python • Devops for Data Scientist • Interme  
Python for Data Science • Intro to Java: Functional Programming • Intro to Python for Data Sc  
• Intro to SQL for Data Science • Introduction to Data • Introduction to Machine Learning  
• Introduction to R for Finance • Java Course • Python Programming • Survival Analysis

### 5 Projects

Build a Ready-to-Use System for stock market with Financial News • Multi-Agent Inverse  
Reinforcement Learning for Text-Based Games • fMRI and visual images • Predicted Stock Pri  
Movements with Financial News Sentiments • Facial Recognition of Miss Koreans

### 4 Organizations

Statistics Graduate Students Association • The California Actuarial League (CAL) • Actuarial Ir  
of Chinese Taipei, AICT • Society of Actuaries

### 3 Honors & Awards

Shin Kong Life Insurance Company Scholarship • Cathay Life Insurance Company Scholarship  
• Taiwan Farmers' Association Scholarship

### 3 Languages


Chinese(Mandarin) • English • Taiwanese

### 1 Publication


Improving precision of health campaigns through an API for identifying residential buildings

## Interests







**Taiwan Recruiters Club - 台灣徵...**  
8,335 members



**Google**  
19,468,247 followers




**McKinsey & Company**  
3,623,239 followers



**IBM**  
9,373,849 followers

**Data Scientists**  
82,050 members



**Oracle**  
6,056,186 followers

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