

# Royce Yang

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*"Ambitious soon-to-be graduate looking for full-time opportunities within friendly and collaborative teams."*

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## EDUCATION

**The University of Chicago**, Chicago, IL | Dean's List Scholar 2018, 2019

(Double Major) B.A. in Economics with specialization in Data Science and B.S. in Computer Science — expect. graduation June 2020

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## PROFESSIONAL EXPERIENCE

### General Electric Company

Milwaukee, WI

*Data Science Intern*

June 2019 – Aug 2019

- Used stacked ensemble methods to build predictive analytics for remaining useful oil life, saving customers \$2000/yr/engine
- Constructed generative adversarial networks for anomaly detection in the engines' internal combustion process

### Midea Group

San Jose, CA

*Machine Learning Intern*

June 2018 – Sept 2018

- Applied machine learning with 20k+ dataset to teach devices to recognize human actions (e.g. running on treadmill)
- Trained and implemented a CNN for object recognition, using Keras and TensorFlow, for embedded Linux (Raspberry Pi and TX2)

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## PROJECTS

### Fraud Detection in Credit Card Transactions

July 2019 – Present

- Explored the application of LightGBM on credit card transaction data for fraud detection

### Estimating the Effect of News Articles on Stock Prices

Jan 2019 – Mar 2019

- Applied machine learning on market data and news data processed with sentiment analysis to discern key market indicators
- Weighted SVM and Random Forest with statistical model (logistic regression) to improve OOB prediction accuracy (~70%)

### Predicting Airbnb Ratings with Public Housing Data

Feb 2019

- Used LASSO for variable selection and found super host indicator and sentiment analysis of reviews to be the most important
- Performed regression analysis and random forest to achieve an  $R^2$  of  $>0.3$  when regressed on hold-out groundtruth ratings

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## ACTIVITIES

### Edge Entrepreneurship | Senior Associate

Feb 2018 – Apr 2019

- Work in teams on start-up and portfolio management consulting under the mentorship of professional consultants from Polsky
- Managing year-long start-up project for the College New Venture Challenge in search of venture capital

### University of Chicago Badminton Team | Captain

Mar 2017 – Mar 2019

- Led the UChicago badminton team in the 2019 Yonex Collegiate Championships in Schaumburg, IL

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## CONFERENCES

### Uncommon Hacks 2019

Feb 2019

- Won first place for the main category by presenting a computer vision-integrated augmented reality project

### Undergraduate Research Symposium in the Physical Sciences, Mathematics, and Computer Science

Nov 2018

- Invited to present as a guest speaker on action recognition within Computer Vision at the University of Washington in St. Louis

### University of Chicago 5<sup>th</sup> Annual Undergraduate Research Symposium

Sept 2018

- Selected as a distinguished undergraduate in research to present recursive deep learning model-enhancing algorithms

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## SKILLS

**Programming Languages:** R, Python, Stata, C, Java, HTML/CSS, Javascript

**Economics & Data Science Coursework:** Econometrics, Statistical Modeling, Linear Algebra, Data Construction and Interpretation, Applications of Econometric and Data Science Methods, Economic Analysis, Big Data

**Computer Science Coursework:** Machine Learning, Data Structures, Algorithms, Data Visualization, Computer Vision

**General Skills:** Agile, Teamwork, Presentation, Documentation, Retrospection

**Language:** Native: English, Secondary: Chinese and Spanish

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**REFERENCES** for each work experience or project will be provided upon request.

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**WEBSITE** available at [home.uchicago.edu/~royceyang](http://home.uchicago.edu/~royceyang) – check it out for samples of my work!