

Richard M. Crowley

Assistant Professor of Accountancy
Singapore Management University (2016.07–)

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Education

University of Illinois Urbana-Champaign, Urbana, IL

- 2012–16 PhD Accountancy
- 2008–12 B.S. Accountancy, *High Honors*
- 2008–12 B.S. Finance, *High Honors*
- 2008–12 B.S. Liberal Arts and Sciences, *High Distinction* in Mathematics (Theoretical Mathematics)

Interests

Research

Disclosure and information, Social media and new media, Stock market frictions
Methods: Archival (Machine learning/AI, Text analytics/NLP, econometrics), Methodology, Analytical

Teaching

Data science/Analytics/Machine learning, Economic theory, Financial accounting, Control systems

Publications

- 2020 **What Are You Saying? Using Topic to Detect Financial Misreporting** (with Nerissa Brown and W. Brooke Elliott), *Journal of Accounting Research*. Available at <https://ssrn.com/abstract=2803733>
 - Citations: 200+
 - Altmetric: 2nd highest for JAR publications; 7th highest for all accounting publications

Working Papers

- 2023 **Discretionary Dissemination on Twitter** (with Wenli Huang and Hai Lu). Conditionally accepted at *Contemporary Accounting Research*. Available at <https://ssrn.com/abstract=3105847>
- 2024 **Executive Tweets** (with Wenli Huang, Hai Lu). Revising for second round review at *Management Science*. Available at <https://ssrn.com/abstract=3975995>
- 2023 **Misinformation Regulations: Early Evidence on Corporate Social Media Strategy** (with Yun Lou, Samuel Tan, and Liandong Zhang). Revise and resubmit at *Review of Accounting Studies*.
- 2024 **The Effect of Social Media Trending on Traditional Media Coverage** (with Yun Lou and Yuan Zhao). Preparing for submission to *The Accounting Review*.
- 2024 **Algorithm Access for All: Information Processing Democratization via GitHub** (with Stephanie Cheng, Pengkai Lin, and Yuan Zhao)
- 2023 **Understanding Sentiment Through Context** (with M.H. Franco Wong). Revising for submission. Available at <https://papers.ssrn.com/abstract=4316229>
- 2023 **Does Misinformation Regulation Reduce Fake News in Financial Markets? Evidence from East Guba** (with Yun Lou, Samuel Tan, and Liandong Zhang)
- 2023 **Culture and the Organization of Stock Exchanges: East vs. West** (with A. Rashad Abdel-Khalik and Xiang Li). Preparing for submission to *Journal of Financial Markets*.
- 2019 **Do Firms Manage Their CSR Reputation? Evidence from Twitter** (with Wenli Huang, Hai Lu, and Wei Luo). Available at <https://ssrn.com/abstract=3472473>
- 2021 **The Effect of Regulating Audit Quality on Audit Market Competition and Social Welfare** (with Romana Autrey and Anne Thompson)
- 2018 **Voluntary Disclosure with Multiple Channels and Investor Sophistication**
- 2018 **Market Reaction to Shifting of Voluntary Disclosures across Disclosure Channels**

Work in Progress

- 2023 **Revisiting Readability: Measuring the Understandability of Financial Documents** (grant-based) (with Yanduo Chen)
- 2023 **#Reopen: Reopening Decisions, Local Sentiment, and Economic Consequences** (grant-based) (with Hai Lu and Jee-Eun Shin)
- 2021 **Corporate Disclosures and Intelligent Information Retrieval** (grant-based) (with Hai Lu)
- 2020 **The Effect of Space Commercialization Exposure on Firm Policies** (presented at “Early Insights in Accounting”) (with Yun Lou)

Grants and Fellowships

- 2023–24 **Singapore MOE AcRF Tier 1 grant, Co-PI, \$35,241 SGD (26,039.50 USD on receipt)**
“Social Media and Traditional Media: Complements or Substitutes?” With Yun Lou (PI) and Yuan Zhao. (22-SOA-SMU-047)
- 2022–23 **Singapore MOE AcRF Tier 1 grant, PI, \$39,881 SGD (\$28,185.06 USD on receipt)**
“Revisiting Readability: Measuring the Understandability of Financial Documents” With Yanduo Chen. (22-SOA-SMU-029)
- 2022–27 **SSHRC Insight Grant, Collaborator, \$269,668 CAD (\$215,715.25 USD on receipt)**
“Understanding Corporate Textual Disclosure and Analyst Research” With M.H. Franco Wong (PI), Michael Jung, and Frank Zhang. (435-2022-0283)
- 2020–22 **Singapore MOE AcRF Tier 1 grant, PI, \$37,590 SGD (\$27,612.70 USD on receipt)**
“#Reopen: Reopening Decisions, Local Sentiment, and Economic Consequences.” With Hai Lu and Jee-Eun Shin. (20-C206-SMU-002)
- 2020–23 **Singapore MOE AcRF Tier 2 grant, Co-I, \$304,740 SGD (\$224,073.53 USD on receipt)**
“Anti-fake News Regulation and Capital Market Quality.” With Yun Lou (PI), Samuel Tan, and Liandong Zhang. (MOE2019-T2-2-174)
- 2019–22 **SSHRC Insight Grant, Collaborator, \$124,674 CAD (\$93,505.50 USD on receipt)**
“Corporate Disclosures and Intelligent Information Retrieval.” With Hai Lu (PI). (435-2019-0292)
- 2019–20 **HKGRF grant, Collaborator, 601,537 HKD (\$76,780.23 USD on receipt)**
“Executive Disclosures on Twitter.” With Wenli Huang (PI) and Hai Lu. (15502618)
- 2017–20 **Singapore MOE AcRF Tier 1 grant, PI, \$57,488.99 SGD (\$41,121.41 USD on receipt)**
“Corporate and Executive Disclosures on Social Media.” With Hai Lu. (16-C206-SMU-09)
- 2015–16 **University Fellowship (UIUC)**
- 2014–15 **University Fellowship (UIUC)**
- 2014 Aug **Dennis Fellowship (UIUC)**
- 2014 Aug **Fellow of the Foundation Lindau Nobel Laureate Meetings**
- 2013–14 **Departmental Fellowship (UIUC)**

Awards and Honors

- 2022 Jul **Contemporary Accounting Research**
Outstanding reviewer – Top 20 of 866 reviewers
- 2022 Apr **Financial Accounting and Reporting Section of the AAA**
Excellence in Reviewing Award
- 2020 Jul **Singapore Management University, School of Accountancy**
Teaching Excellence Award: Dean’s List for Teaching Excellence
- 2020 Jun **Financial Accounting and Reporting Section of the AAA**
Excellence in Reviewing Award
- 2019 Jun **Financial Accounting and Reporting Section of the AAA**
Excellence in Reviewing Award
- 2018 Jul **Singapore Management University, School of Accountancy**
Teaching Excellence Award: Dean’s List for Teaching Excellence
- 2018 Jul **Singapore Management University, School of Accountancy**
Teaching Excellence Award: Most Improved Teacher
- 2014 Aug **Lindau Nobel Meeting on Economic Sciences, Lindau, Germany**
Selected as one of the top 500 young economists worldwide to attend 19 Noble laureates’ lectures

Research Presentations

2024 Apr	WU Vienna (Scheduled)
2024 Apr	KU Leuven (Scheduled)
2024 Apr	University of Mannheim (Scheduled)
2024 Mar	Bocconi University (Scheduled)
2024 Feb	Norwegian School of Economics
2023 Jul	Deakin University
2023 Jun	HEC Lausanne
2023 May	European Accounting Association Annual Congress, Finland
2022 Dec	Singapore Management University SOAR Accounting Symposium, Singapore
2022 Nov	University of Toronto
2022 Apr	Hong Kong Shue Yan University, HK RGC sponsored analytics talk
2021 Nov	Norwegian School of Economics (NHH)
2021 Oct	Chinese University of Hong Kong
2021 June	India Institute of Management (joint across all campuses)
2021 May	India Institute of Management Calcutta, Summer Camp
2021 Apr	Hong Kong University of Science and Technology
2020 Oct	Early Insights in Accounting Webinar
2020 Aug	American Accounting Association Annual Meeting, Virtual
2020 Feb	University of Chicago
2020 Feb	Rutgers University
2020 Feb	Carnegie Mellon University
2019 Jul	Conference on Intelligent Information Retrieval in Accounting and Finance, Peking U.
2019 Jun	Humboldt University, IRTG 1792, Summer Camp
2019 Jun	Humboldt University, IRTG 1792
2019 Jun	Singapore Management University, Summer Camp
2019 Mar	Hong Kong University
2018 Oct	SJTU-SMU Joint Conference, Shanghai, China
2018 Aug	American Accounting Association Annual Meeting, Washington, D.C., USA
2018 Aug	Junior Accounting Theory Conference (Early ideas session), Washington, D.C., USA
2017 Nov	Peking University
2017 Oct	University of Toronto
2017 Apr	SMU-NTU-NUS Accounting Research Joint Conference, NTU
2017 Aug	American Accounting Association Annual Meeting, San Diego, CA, USA
2017 Jan	Journal of Accounting, Auditing and Finance Symposium, IIM Ahmedabad
2016 Oct	Conference on Financial Economics and Accounting, Toronto, Canada
2016 Mar	Hong Kong University of Science and Technology
2016 Mar	Hong Kong Polytechnic University
2016 Mar	Singapore Management University
2016 Feb	Cornell University
2016 Feb	University of Florida Gainesville
2015 Nov	University of Illinois, Doctoral Student Presentation Mini-Conference
2015 May	University of Illinois, Brown Bag
2014 Oct	Purdue University – with Romana Autrey
2013 Apr	University of Illinois, Brown bag

Service

Committees and Departmental Positions

2022–	PhD Program Committee, <i>Member</i> Curriculum guidance and qualifier examination administration/evaluation
2023–24	School Evaluation Committee, <i>Member</i>
2021–23	SMU Faculty Senate, <i>Senator</i>
2022–23	SMU Faculty Senate: Promotion, Hiring, and Tenure Subcommittee, <i>Member</i>
2021–22	SMU Faculty Senate: Promotion, Hiring, and Tenure Subcommittee, <i>Chair</i>
2021–	Digital Transformation Research Committee, <i>Member</i>

2020–23 Build capacity for digital transformation research by sourcing data, talent, and compute.
Financial Accounting (ACCT 101) *Course coordinator*
Coordinating approximately 30 sections per year

PhD Student Advising

2022– **Yuan Zhao**, *Advisor*
SMU School of Accountancy
2019–23 **Amanda Aw Yong**, *Advisor, Committee Member*
SMU School of Accountancy; Placement: Hong Kong Baptist University

DBA Student Advising

2023– **Christopher Street**, *Committee Member*
SMU LKCSB, Finance

Reviewer: Journals

Journal of Accounting Research (2)
The Accounting Review (1)
Review of Accounting Studies (3)
Contemporary Accounting Research (8)
Accounting, Organizations, and Society (1)
Corporate Governance: An International Review (1)
Journal of Business Finance & Accounting (2)
European Accounting Review (1)
Journal of Forecasting (2)
Journal of Contemporary Accounting & Economics (1)
Journal of Accounting, Auditing & Finance (4)
The International Journal of Accounting (3)
Asia-Pacific Journal of Accounting & Economics (1)
China Accounting and Finance Review (1)

Reviewer: Grants

Hong Kong Research Grants Council, Hong Kong (HKGRF: 13)
Social Sciences and Humanities Research Council, Canada (SSHRC Insight: 1)
National Science Center, Poland (PRELUDIUM: 1, OPUS: 1)

Reviewer: Conferences

Journal of Accounting Research Conference (1)
Financial Accounting and Reporting AAA Midyear Meeting (13)
Hawai'i Accounting Research Conference (1)
SMU Accounting Symposium (10)
Conference on Financial Economics and Accounting (1)
AAA Annual Meeting (14)
The International Journal of Accounting Symposium (4)
University of Illinois Symposium on Audit Research (1)

Discussant and Panelist: Conferences and Doctoral Consortia

2023 May The International Journal of Accounting Symposium, Discussant
2023 May The International Journal of Accounting Symposium, Ph. D. Consortium panelist & faculty
2023 Jan Journal of Accounting, Auditing, and Finance Symposium, ISB, India, Discussant
2022 Dec Global AI Finance Research Conference, Singapore, Discussant
2022 Oct Singapore Alliance of University Libraries' Copyright Seminar, Singapore, Panelist on Text & Data Mining
2021 May ABFER Annual Conference, Singapore, Discussant
2021 Jan Journal of Accounting, Auditing, and Finance Symposium, IIMC, India, Discussant
2020 Aug AAA Annual Meeting, Discussant
2020 Jan Journal of Accounting, Auditing, and Finance Symposium, IIMB, India, Discussant

- 2019 Jul CICF, Guangzhou, China, Discussant (2)
- 2019 Jan Journal of Accounting, Auditing, and Finance Symposium, ISB, India, Discussant
- 2018 Aug AAA Annual Meeting, Discussant (2)
- 2018 Jul NTU Finance Conference, Discussant
- 2017 Dec SMU Accounting Symposium Doctoral Consortium, Panelist
- 2017 Aug AAA Annual Meeting, Discussant (2)
- 2016 Aug AAA Annual Meeting, Discussant (2)
- 2014 Feb International Accounting Section Midyear Meeting, Discussant
- 2013 May Illinois International Journal of Accounting Symposium, Panelist

External Advising

- 2019–23 **Fraud Factors**, *Advisor*
Providing expertise on misreporting data and fraud detection algorithms.
- 2019 Sp **Singapore Institute for Adult Learning (An Institute of SkillsFutureSG)**, *The Future of Jobs and Skills: the Impact of Automation in Singapore (2018–19)*
Provided expertise on how AI and machine learning are expected to impact the accounting profession over the next 5 years, with an emphasis on identifying needs for retraining and job shifts.
- 2018 Sp **SMU Academy**, *Recognition of Prior Learning Proof of Concept Project*
Developed examination to identify employees with knowledge of digital governance for fintech.

Published Media

As an author

- 2022 May **How Accountancy can Prevent the Manipulation of Public Information**. Discusses social media disclosure, data privacy, and data as an intangible asset with SMU PhD student Zhao Yue. ([link](#))
Published in the *Theory of Curiosity* podcast
- 2022 Feb **Richard Crowley on Executive Tweets**. Discusses my paper “Executive Tweets.” ([link](#))
Published in *Business Scholarship Podcast*
- 2020 May **How executives use social media to build trust with investors**. Discusses how executives’ social media usage plays a role in informing investors. ([link](#)) ([permalink](#))
Published in *Business Times*
- 2019 Apr **The accounting profession: On the cusp of a technological revolution** (with Jiwei Wang (SMU)). Discusses the expected impact of AI and related technologies on the accounting profession. ([link](#)) ([permalink](#))
Published in *Business Times*; Also distributed by SMU’s website and by Wolters Kluwer Malaysia
- 2019 Jul **Scrutinising Financial Information on Twitter and Detecting Misreporting (Podcast)**. Discussed “What are you saying? Using topic to detect financial misreporting” and “Discretionary Dissemination on Twitter” on air at SMU Podcast. ([link](#)) ([permalink](#))
Published by *SMU Podcast*

Coverage

- 2022 Jul **The Intersection Between Online Data, Public Trust in Corporations, and Accountancy**. ([link](#))
University blog post
- 2020 Jun **Does anti-fake news regulation improve the quality of capital markets**. ([link](#)) ([permalink](#))
Press release
- 2020 Mar **Predicting intentional accounting misreporting**. ([link](#)) ([permalink](#))
Press release
- 2020 Mar **Uncovering financial misinformation**. ([link](#)) ([permalink](#))
Published in *Business Times*
- 2019 Dec **Topic Analysis a Strong Predictor of Financial Misreporting, According to University of Illinois Study**. ([link](#)) ([permalink](#))
Press release, covered by 11 other news outlets including Business Insider

Research Visits

- 2022 Nov **University of Toronto, Rotman School of Management, Toronto, ON, Canada**
1 week visit discussing ongoing and follow-on projects.
- 2022 Nov **Columbia Business School, New York City, NY, USA**
1 week visit discussing machine learning for fundamental accounting questions and ESG.

- 2020 Feb **University of Toronto, Rotman School of Management, Toronto, ON, Canada**
2 week visit including research idea generation and 2 grant submissions.
- 2019 Jun **Humboldt University, IRTG 1792 “Nonstationary Timeseries...”, Berlin, Germany**
1.5 week visit including 1 workshop, summer camp, and discussion with PhD students about their work on machine learning based text analysis.
- 2017 Oct **Carnegie Mellon University, Tepper School of Business, Pittsburgh, PA, USA**
3 week visit including 1 workshop and a discussion for PhD students on blockchain

Public Lectures

- 2021 May **Using Machine Learning to Detect Financial Fraud.** Live stream hosted on masterclass.sg, hosted by Head-hunt (recording)
- 2019 Mar **Corporate Fraud, LDA, and Econometrics.** For Data Science Singapore, > 200 in attendance (slides) (recording)

University and Government Lectures

- 2023 Nov **Twitter Analytics on Companies, Executives, and COVID-19.** At SMU, PhD level (slides)
- 2023 May **Demystifying analytics, AI, and machine learning.** At GIC (Singapore’s sovereign wealth fund), (slides)
- 2022 Nov **Twitter Analytics on Companies, Executives, and COVID-19.** At SMU, PhD level (slides)
- 2021 Nov **Twitter Analytics on Companies, Executives, and COVID-19.** At SMU, PhD level (slides)
- 2021 Sep **Accounting Applications of Social Media Data.** At SMU, PhD level (slides)
- 2021 May **Leveraging Social Media for Social Science Applications.** At SMU PGR’s 2nd Interdisciplinary Seminar, PhD level across all schools (slides)
- 2020 Nov **Text Analytics, NLP, and Accounting Research, 2020.** At SMU, PhD level (slides)
- 2020 Sept **Twitter Analytics on Companies, Executives, and COVID-19.** For prospective PhD students for SMU (slides)
- 2020 Apr **Text Analytics, NLP, and Accounting Research, 2020.** At Peking University, PhD level (slides)
- 2019 Nov **Text Analytics, NLP, and Accounting Research, 2019.** At SMU, PhD level (slides)
- 2019 Jul **Text analytics and accounting: Social media and fraud detection.** For prospective PhD students across all SMU schools (slides)
- 2019 Mar **Detecting Misreporting in 2019.** At SMU, Undergraduate level, Presented guest lecture 3 times (slides)
- 2018 Nov **Text Analytics, NLP, and Accounting.** At SMU, PhD level (slides)
- 2018 Apr **Market Reaction to Shifting of Voluntary Disclosures across Disclosure Channels (And related theory).** At NUS, PhD level.
- 2017 Oct **Bitcoin in Accounting.** At Carnegie Mellon University, PhD level (slides)

Conferences Attended

(Excluding presented and discussed, above)

- 2023 Oct Contemporary Accounting Research (CAR) Conference, Virtual
- 2023 Jul MIT Asia, SMU, Singapore
- 2023 Jun SMU Tilburg joint conference, Tilburg, Netherlands
- 2022 Dec Review of Accounting Studies (RAST) Conference, Virtual
- 2022 Nov Burton Accounting Conference, NYC, NY, USA
- 2022 Oct Contemporary Accounting Research (CAR) Conference, Virtual
- 2022 May SMU SOA Summer Camp, Virtual
- 2022 May Journal of Accounting Research Conference, Chicago, IL, USA
- 2022 May SMU-NTU-NUS Accounting Research Joint Conference, Virtual
- 2022 Jan Journal of Accounting Auditing and Finance India Symposium, Virtual
- 2021 Dec SMU Accounting Symposium, Virtual
- 2021 Dec Review of Accounting Studies Conference, Virtual
- 2021 Nov Contemporary Accounting Research (CAR) Conference, Virtual
- 2021 Jun SMU SOA Summer Camp, Virtual
- 2021 Apr Young Scholars Research Symposium, Virtual
- 2021 Apr SMU-NTU-NUS Accounting Research Joint Conference, SMU, Virtual
- 2020 Dec SMU Accounting Symposium, Singapore
- 2020 Dec Singapore Symposium on Natural Language Processing, Virtual
- 2020 Dec Review of Accounting Studies Conference, Virtual

2020 Nov	China Accounting and Finance Review Fundamental Analysis Symposium, Virtual
2020 Nov	Contemporary Accounting Research (CAR) Conference, Virtual
2020 Jul	India Institute of Management Bangalore Symposium, Virtual
2020 Jun	Lindau Nobel Laureate Meetings, Online Science Days 2020, Virtual
2020 Jun	Immersive Learning Research Network (iLRN 2020), Virtual Reality
2020 May	QEP-IBM Quantum Workshop, Virtual
2020 May	IBM Think & IBM Quantum Challenge, Virtual
2019 Dec	RAST 2019 Conference, SMU, Singapore
2019 Oct	Singapore Symposium on Natural Language Processing, Singapore
2019 Jun	Accounting Research Workshop, Zurich, Switzerland
2019 May	Asia Bureau of Finance and Economics Research, Singapore
2019 Apr	SMU-NTU-NUS Accounting Research Joint Conference, SMU, Singapore
2018 Dec	SMU Accounting Symposium, Singapore
2018 Jul	Singapore Symposium on Natural Language Processing, Singapore
2018 May	Asia Bureau of Finance and Economics Research, Singapore
2018 Apr	SMU-NTU-NUS Accounting Research Joint Conference, NUS, Singapore
2017 Dec	SMU Accounting Symposium, Singapore
2017 Oct	SMU-NCCU Joint Accounting Conference, Taipei, Taiwan
2017 Aug	Carnegie Mellon Accounting Mini Conference, Pittsburgh, PA, USA
2017 Aug	Junior Accounting Theory Conference, San Diego, CA, USA
2017 May	Asia Bureau of Finance and Economics Research, Singapore
2016 Dec	SMU Accounting Symposium, Singapore
2016 Oct	SMU, UTS, & UNSW Accounting Conference, Sydney, NSW, Australia
2016 Aug	SKBI Conference 2016: Fintech and Financial Inclusion, Singapore
2016 Aug	Junior Accounting Theory Conference, New York, NY, USA
2016 Jan	Financial Accounting and Reporting AAA Midyear Meeting, Newport Beach, CA, USA
2015 Jun	2015 Midwest Summer Research Conference, Champaign, IL, USA
2015 Jun	Illinois International Journal of Accounting Symposium, Xiamen, China
2015 Apr	PwC Young Scholars Research Symposium II, Champaign, IL, USA
2014 Sep	University of Illinois Symposium on Audit Research, Champaign, IL, USA
2014 Aug	Lindau Nobel Meeting on Economic Sciences, Lindau, Germany
2014 Apr	PwC Young Scholars Research Symposium I, Champaign, IL, USA
2014 Feb	International Accounting Section Midyear Meeting, San Antonio, TX, USA
2014 Jan	Financial Accounting and Reporting AAA Midyear Meeting, Houston, TX, USA
2013 May	Illinois International Journal of Accounting Symposium, Wuhan, China
2012 Sep	University of Illinois Symposium on Audit Research, Champaign, IL, USA

Courses Taught

Professor, *Singapore Management University*

2024 Sp	[PhD] ACCT 703, Analytical and Empirical Methods in Accounting , <i>Miniature Theory Seminar</i> A 6 week theory course covering bookkeeping, standard setting, risk, contracting, and disclosure. Also taught in 2023 Spring, 2022 Spring, 2021 Spring, 2020 Spring (in person and VR), and 2019 Summer (4 week variant). Designed in 2019.
2023 Fa	[PhD] IDIS 700, Machine Learning for Social Science (materials) A 12 week seminar on applied machine learning methods across all SMU school, covering ML regression, NLP, DoubleML, bias, and neural networks. Starting in 2023, taught across SMU, NUS, and NTU. Also taught in 2022 Fall and 2021 Fall. Designed in 2021.
2023 Fa	[Undergrad] ACCT 420, Forecasting and Forensic Analytics (materials) A 12 week course for 4th year undergrads on applying algorithms (econometrics, text analytics, and machine learning) to accounting data. Also taught in 2021 Fall, 2020 Fall, 2019 Fall, and 2018 Fall. Designed in 2017-2018 for undergrad and Master's level.
2022 Fa	[Undergrad] ACCT 101, Financial Accounting (materials)

Also taught in 2021 Fall, 2020 Fall, 2019 Fall, 2018 Spring, and 2017 Spring.

2021 Su [Faculty] **Python for Machine Learning** (materials)
Designed a 6 session intensive course on applied machine learning for accounting research; taught for the faculty of SMU's School of Accountancy

Instructor, *University of Illinois*

2014 Su [Undergrad] ACCY 304, **Accounting Control Systems**
Also taught in 2013 Summer.

Professional Experience

2011–13 **Tallecap, Urbana, IL, USA**
Co-founder: Venture capital software startup providing software to determine capitalization and hypothetical payoffs for venture capital deals. It has since been turned into a tool for teaching valuation.

2011 Su **JPMorgan Chase, Chicago, IL, USA**
Intern for Treasury & Financial Services: Analyzed worldwide forex revenues to improve predictability, costed out a credit card payment platform, automated monthly forex reporting for Asia.

2011 Sp **DN Partners, Chicago, IL, USA**
Prepared comparables sets for an audit of a small private equity fund.

Technical Skills

Programming languages: Python, R, Mathematica (certified), Qiskit (quantum computing, certified), C
Markup languages: L^AT_EX, HTML, R Markdown, Quarto
Statistics packages: R, Stata, Pandas/Statsmodels/scikit-learn, SAS
Machine learning & NLP Tensorflow, PyTorch, Huggingface, Gensim, STM, Theano, NLTK, spaCy, XGBoost
Expertise: Machine learning, text parsing, automation, web crawling, econometrics, mathematics

Hobbies

Coffee, Cooking, Aeroponic & hydroponic farming, Virtual reality, Bachata