

**EDUCATION**

McGill University, Canada (Finance, Ph.D.)  
Wilfrid Laurier University, Canada (MBA)  
Southeast University, China (Civil Engineering, M/B)

**PH.D. DISSERTATION** : Three Essays on Financial Intermediation (McGill)  
**NATURAL LANGUAGES** : English and Chinese  
**COMPUTER LANGUAGES** : R, Python, SAS, MATLAB, and C.  
**ONE-PAGE CV** : Click [here](#)  
**PERSONAL WEB PAGE** : Click [here](#) for the link, [linkedIn](#)  
**MY FINTECH WEBPAGE** : Click [here](#)

**AREAS OF INTEREST**

Teaching: FinTech, Business Analytics using R/Python, Financial Modeling using Excel/R,  
Options and Futures, Portfolio Theory, Robo Advising using Python, Learning  
ChatGPT and Chatbot via Python, and Introduction to Blockchain and  
Cryptocurrency via Python  
Research: Financial Data Analytics, Market Microstructure, Open-Source Finance

**HONORS**

Faculty Scholarship Award (Wehle School of Business, Canisius College, 2016)  
Nominated for the best paper award (Financial Management Association, 2016 annual meeting)  
*Teaching programming skills to finance students: How to design and teach a great course?*  
Best Paper Award, 2015 Frontier Research in China International Symposium (2015)  
*Information Asymmetry and Cross-Sectional Returns: A Re-Examination of the Relationship  
between Stock Return and the Adjusted Probability of Informed Trading (with Shaojun Zhang)*  
Nominated for the Model of Excellence (University of Pennsylvania, 2009), click [here](#)  
Canadian International Development Agency Scholarship (1989)

**ACADEMIC AND PROFESSIONAL WORKING EXPERIENCE**

FinTech Boot Camp	(2022-2024)	Teaching Faculty
SUNY at Geneseo	(2020-2023)	Assistant Professor
University at Buffalo	(2014-2019)	Visiting faculty
Canisius College	(2013-2020)	Assistant Professor
Hofstra University	(2012-2013)	Visiting Assistant Professor
Loyola University Maryland	(2010-2012)	Visiting Assistant Professor
University of Maryland Univ. College	(2012)	Adjunct Professor
Wharton Research Data Services	(2003–2010)	Technical Director
Shanghai Stock Exchange, China	(6/2006-9/2006)	Visiting Financial Economist
Nanyang Technological U., Singapore	(1998-2002)	Assistant Professor
Wilfrid Laurier University	(1997-1998)	Visiting Assistant Professor
McGill University, Canada	(1993-1997)	Lecturer & Research Assistant
Southeast University, China	(1988-1989)	Lecturer (Management School)

Southeast University, China (1984-1988) Lecturer (Civil Engineering Dept)  
China State Machinery Import & Export Corp. (1987) Secretary and Translator

## **TEACHING**

### **COURSES TAUGHT** (in the classroom and online)

- Programming for Data Analytics (Geneseo, DANL100, 2021-2022)
- International Finance (Geneseo, FNCE316, 2020-2022)
- Economics and Business Statistics (Geneseo, ECON205, 2020-2022)
- Financial Modeling using R (Geneseo, FNCE450, fall2022)
- Financial Analysis with R (University at Buffalo, 2014-2019, MGF690/694 for MSF and MBA Data Analytics Program)
- Business Analytics (ECO256, Canisius, 2018-2020)
- Financial Modeling using Excel (Canisius, 2016-2020, FIN455, MBA619)
- Applied Integrative Projects in Data Analytics I [Introduction to SAS and Big Data] DAT521 (Master in Data Analytics, Canisius, 2018-2019)
- Options and Futures (Canisius, 2014-2016, 2019, undergraduate, FIN480, MBA628)
- Portfolio Analysis (Canisius, 2014-2019, undergraduate, FIN414, MBA617)
- Corporate Finance (Canisius, 2013-2016, 2019, undergraduate, FIN311)
- Business Analytics using R (Canisius, 2016, MBA674, FIN456)
- Corporate Finance (Canisius, 2014-2016, graduate, FIN841)
- Corporate Finance (Canisius, 2013-2016, MBA, FIN508)
- Options and Futures (Canisius, 2014, 2016, graduate, MBA628)
- Quantitative Financial Analysis (Canisius, 2013, undergraduate, FIN457)
- Portfolio Management (Hofstra, 2013, graduate, MSQF/MBA, FIN210)
- Financial Analysis and Modeling (UMUC, 2013, graduate, online, FIN615)
- Managerial Finance (Hofstra, 2013, 2012, MSQF/MBA, FIN203)
- Introduction to Finance, Financial Markets and Institutions (Hofstra, 2012, FIN101)
- Financial Theory and Modeling (Loyola, 2012, 2011, MSF/MBA, GB725)
- Financial Analysis and Strategy (Loyola, 2012, 2011, MSF/MBA, GB703)
- Financial Management (Loyola, 2012, 2010, undergraduates, FI320)
- Financial Theories (Loyola, 2011, MBA/MSF, graduate, GB720)
- Financial Modeling Using R (Loyola, 2011, graduate, GB729)
- Derivative Securities and Markets (Loyola, 2010, 2011, undergraduate, FI431)
- Derivatives and Risk Management (Loyola, 2010, graduate, GB820)
- Introduction to Financial Databases (NTU, 2000-2002, Ph.D. level, C, CRSP, PACAP, COMPUSTAT, IBES, Reuters)
- Risk Management (2002, graduate, Matlab, and Credit Risk Analysis)
- Advanced Financial Modeling (NTU, 2000-2002, graduate, C++, Matlab & Option theories)
- Computer-based Financial Modeling (NTU, 1999-2001, Excel).
- Financial Management (tutorial, NTU, 1999)
- Derivative Securities (tutorial, NTU, 2002)
- Nanyang Advanced Banking & Risk Management Program for Asia Pacific Bankers Club (1999)
- Bank Treasury Management (tutorial, NTU, 1998)
- Financial Management (Wilfrid Laurier University, 1997, 1998)
- Corporate Finance, Financial Management (McGill, 1993-1997).

### **NEW COURSES:**

- Programming for Data Analytics (DANL100, 2021, Geneseo). Click [here](#) for the syllabus

- Financial modeling using Excel: an R-assisted learning environment (30 chapters plus a thousand R programs; click [here](#) for the syllabus, [here](#) for the Table of Contents, and [here](#) for the preface (of the book).
- Introduction to R and graphical presentation (DA500), click [here](#) for the syllabus
- Integrated Projects in Data Analytics I (Introduction to SAS and big data, DA520, F2018), click [here](#) for the syllabus
- Integrated Projects in Data Analytics II (Machine learning, big data analytics using R and SAS, DA521), click [here](#) for the syllabus.
- Text Analysis on the SEC filings, click [here](#)

## ARTICLES, COMPUTER CODES, AND TEXTBOOKS RELATED TO TEACHING

- Learning Excel  
> source("http://datayyy.com/learnExcel.txt")
- Mimic Excel, click [here](#)  
> source("http://datayyy.com/mimicExcel.txt")
- Accessing real-world data from our classrooms in 2 seconds
- An internet-connected financial calculator, 2012, Journal of Accounting and Finance 12(5), 59-70; click [here](#) for the abstract
- Finding the locations for a firm's 10-K filings using R, click [here](#) [more]
- Financial ratio analysis
- Using R for teaching Finance 101, click [here](#)
- Using Python to teach Finance 101, click [here](#)
- A free financial calculator, click [here](#) for a 2-page long doc and [here](#) to download
- TAQ for teaching: using R to process high-frequency data  
> source("http://datayyy.com/code\_R/taq.txt")

R codes: TAQ.R

- CRSP for teaching, click [here](#)
- A set of R programs for teaching option theory
- How to prepare for a Ph.D. study in finance? Try my 215 strategy, click [here](#)
- Financial Modeling using R, click [here](#) for the table of contents
- 10 Data cases for undergraduate (FIN101) graduate (FIN203 and FIN 210)
- Financial Modeling using C++ (a course designed for students majoring in finance)
- Graduate course: Intro to SAS, CRSP, Compustat, and TAQ; click [here](#) for the syllabus
- Python for finance, the 2<sup>nd</sup> edition, 2017, publisher: *Packt Publishing*, click [here](#)
- Python for finance, 2014, publisher: *Packt Publishing*; click [here](#) for the cover page
- An Excel data set for teaching Portfolio Analysis (20 years monthly prices for over 99 securities; click [here](#) to download an Excel file
- My web page for learning Excel, click [here](#)

**PLATFORMS:** familiar with Blackboard, Moodle, myfinancelab, Aplia, WebTycho, Angel, UBlerns, D2L(Desire to Learn), Canvas, and WRDS UNIX server.

## ONLINE TEACHING/LEARNING/TEACHING CERTIFICATE

- Familiar with WebTycho online teaching system
- Financial Analysis and Modeling (UMUC, 2013, FIN615, online with 21 students)
- Taught online seminars several times (2007-2010) at Wharton School
- Google Python online lectures (by Nick Parlante, self-study)
- 3-week online teaching intensive training (UMUC, 2012)

- 4-week training for online teaching (Hofstra, 2012)
- Remote online tutoring (Skype, join.me for sharing screen, paint for demonstration)

## STUDENT EVALUATIONS

- International Finance (Geneseo, 2021, FNCE316, 4.00)
- Business Analytics (Canisius, 2019, ECO256, 4.13)
- Financial Modeling using Excel (Canisius, 2019, FIN455, 4.17)
- Options and Futures (Canisius, 2019, 4.27, FIN480)
- Financial Modeling using Excel (Canisius, 2018, FIN455 4.15, MBA619, 4.375)
- Business Analytics (Canisius, 2016, graduate, MGF690, 4.35)
- Financial Analysis with R (Buffalo U., 2014, graduate, MGF690, 4.225/5 (3.38/4) for instructor, 4.2875/5 (3.43/4) for course, 2015 4.41, 2016, 4.14)
- Options and Futures (Canisius, 2014, undergraduate, FIN480, 4.63/5)
- Corporate Finance (Canisius, 2013, FIN311, 4.1/5)
- Quantitative Financial Analysis (Canisius, 2013, undergraduate FIN457, 4.76/5)
- Portfolio Management (Hofstra, 2013, MFQA, 1.4/5, note: the best is 1)
- Managerial Management (Hofstra, 2012, FIN203 MBA/MFQA, 1.4/5, note: the best is 1)
- Derivative Securities and Market (Loyola, spring 2011, undergraduate, 3.6/4)
- Financial Analysis and Strategy (Loyola, fall 2011, MBA/MSF, 3.4/4)
- Financial Theory and Modeling (Loyola, fall 2011, MBA/MSF, 3.4/4)
- Research Methodology/Introduction to financial databases (NTU, 2001, Ph.D., 4.1/5)
- Research Methodology/Introduction to financial databases (NTU, 2002, Ph.D., 4.3/5)

## STUDENT ACHIEVEMENTS

CFA World Championship 2015: the team from Canisius won the CFA research championship by beating over 800 schools.<sup>1</sup> All of those five students took at least one of my finance courses (Matthew Coad (FIN457: Quantitative Analysis), Carl Larsson (FIN480: Options and Futures), Stephen Miller (FIN480 and FIN414: Portfolio Analysis), Kevin Monheim (FIN311: Corporate Finance) and Ryan Zimmer (FIN311)).

J.W. Wang started her doctoral study in August 2016.

## STUDENT SUPERVISIONS

- |         |                         |                               |
|---------|-------------------------|-------------------------------|
| • Ph.D: | Nuttawat Visaltanachoti | (supervisor, 2000-2003)       |
|         | Ang Kian Ping           | (committee member, 1998)      |
| • MBA:  | Lien Wen Pan            | (supervisor, 1999-2001)       |
|         | Wong Kok Choy           | (supervisor, 1999-2001)       |
|         | Pan Yu Ming             | (committee member, 1998-1999) |

## STUDENT PLACEMENTS

- Kate Lan, Master of Quantitative Finance, HK Metal Trading, 2013
- Yang Yang, Master of Quantitative Finance, KPMG Advisory (China) Limited, 2013
- Jeffery Gao went to a master's program at Duke University (2011)

<sup>1</sup> [https://www.cfainstitute.org/community/challenge/about/Pages/past\\_champions.aspx](https://www.cfainstitute.org/community/challenge/about/Pages/past_champions.aspx)

Or <http://canisius.edu/~yany/win2015CFA.pdf>

## BOOKS

### Published:

- 9) Learning R and Python for Business School Students, 2023, *Cambridge Scholars Publishing*; click [here](#) for the Amazon link, [here](#) for the publisher's link, the [preface](#), and the [code](#) on GitHub
- 8) Financial Analysis and Modeling using R (in Chinese), 2021, *Posts and Telecom Press*, Click [here](#) for the link and [here](#) for the book cover.
- 7) Hands-on Data Science with Anaconda (with James Yan), 2018, *Packt Publishing*, click [here](#) for the Amazon link, the [code](#) on GitHub
- 6) Financial modeling using R, 2018, *Legaia Books*, click [here](#) for the book cover
- 5) Python for Finance<sup>2</sup>, 2017 (2<sup>nd</sup> ed.), *Packt Publishing*; click [here](#) for the Amazon link for the [updated code](#) on GitHub
- 4) Python for Finance, 2017, Korean translation, *Acorn publishing*, (translator: Justin Lee), click [here](#) for the link
- 3) Python for Finance, 2017, Chinese translation, *Posts and Telecom Press*, (translators: Shaojun Zhang and Yuxing Yan), click [here](#) for the link
- 2) Python for Finance (1<sup>st</sup> ed.), 2014, *Packt Publishing*, click [here](#) for the link
- 1) Financial Databases (in Chinese), 2007, *Tsinghua University Press* (with Shiwu Zhu)

### Ongoing:

- Learning ChatGPT and Chatbot via Python for Business School Students,  
Click [here](#) for the Preface and [here](#) for Chapter 2.
- Introduction to Blockchain and Cryptocurrency via Python  
Click [here](#) for Chapter 7: Introduction to Blockchain.
- Financial Modeling using Excel –in an R-assisted learning environment (the first draft),  
Click [here](#) for the preface.

## RESEARCH SUMMARY

- Google Scholar: click [here](#); ResearchGate: click [here](#); LinkedIn: click [here](#)  
SSRN: click [here](#); Top 10%, all-time downloads, click [here](#); Top 10% past 12-month, click [here](#)

## JOURNAL PAPERS

- 22) Vadim S. Balashov and Xiaodi Zhu and Yuxing Yan, 2021, [Using the Newcomb-Benford law to study the association between a country's COVID-19 reporting accuracy and its development](#)", *Scientific Reports*.
- 21) Leggio, Karyl, Yoon Shin, and Yuxing Yan, 2021, [Assessment of Credit Ratings and Credit Risk Models on Public Bonds](#), *Journal of Fixed Income*, (accepted)
- 20) Yan, Yuxing, 2019, CRSP for teaching, *Journal of Accounting and Finance*.
- 19) Yan, Yuxing, 2018, A trend in business education, *International Journal of Education and Social Science*.
- 18) Yan, Yuxing, 2017, [Teaching programming skills to finance students: How to design and teach a great course?](#) *Financial Innovation*.
- 17) Yan, Yuxing, and Shaojun Zhang, 2016, Business cycle, investors' preferences and trading strategies, *Frontiers of Business Research in China*, Vol. 10, Issue (4): 525-547.

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<sup>2</sup> The Python book was adopted as a textbook at two American universities: Westminster College and Penn State University.

- 16) Yan, Yuxing, 2016, Mimic Excel, *Journal of Economics and Finance Education* 15, 1, 96-100.
- 15) Fairchild, Lisa, Yoon Shin & Yuxing Yan, 2015, Does SEC Rating Agency Certification Matter? The Case of A.M. Best, *International Journal of Financial Research* 6 (4),10-21.
- 14) Yan, Yuxing, 2015, Red vs. Blue Stocks: Politics and Profitability of Firms, *Journal of Business and Policy Research* 10 (1), 117-138.
- 13) Yan, Yuxing, and Shaojun Zhang, 2014, Quality of PIN Estimates and PIN-return Relationship, *Journal of Banking and Finance*, 137-149.
- 12) Yan, Yuxing, Towards unbiased portfolio daily returns, 2013, *Journal of Applied Finance and Banking* 3 (6), 143-160.
- 11) Yan, Yuxing, An internet-connected financial calculator, 2012, *Journal of Accounting and Finance* 12(5), 59-70.
- 10) Yan, Yuxing and Shaojun Zhang, An Improved Estimation Method and Empirical Properties of the Probability of Informed Trading, 2012, *Journal of Banking and Finance* 36, 2, 454-467.
- 9) Sun, Qian, Wilson Tong, and Yuxing Yan, Market Liberalization within a Country, 2009, *Journal of Empirical Finance* 16,1,18-41.
- 8) Freund, Steven and Yuxing Yan, The Construction of Real Estate Indices, 2008, *Real Estate Review*, 39-52.
- 7) Yen, J. Y., Qian Sun and Yuxing Yan, Value Versus Growth Stocks in Singapore, 2004, *Journal of Multinational Financial Management* 14,1, 19-34.
- 6) Sun, Qian and Yuxing Yan, Skewness Persistence with Optimal Portfolio Selection, 2003, *Journal of Banking and Finance* 27, 1079-1110.
- 5) Sun, Qian and Yuxing Yan, Skewness and Portfolio Selection: Evidence from the Tokyo Stock Exchange, 2003, *China Journal of Finance* (in Chinese).
- 4) Chen, Andrew, Summon Mazumdar and Yuxing Yan, Monitoring and Bank Loan Pricing, *Pacific Basin Finance Journal* 8, 1-24, 2000.
- 3) Duan, Jin-Chuan, Sealey Sealey and Yuxing Yan, Managing Banks' Interest Rate Risks When Interest Rates are Stochastic, and Equity Has Limited Liability, 1999, *International Review of Economics and Finance* 8, 253-265.
- 2) Pan, Yuming, Qian Sun and Yuxing Yan, Skewness and Portfolio Construction, 1999, *Stock Exchange of Singapore Journal*.
- 1) Yan, Yuxing, Measuring the Timing Ability of Mutual Fund Managers, 1999, *Annals of Operations Research* 87, 233-243.

#### **PAPERS UNDER REVIEW**

- One Semester, Two Languages: How to Teach R and Python to Business School Students? click [here](#)

#### **WORKING PAPERS**

- Can teaching schools compete with research schools? A FinTech case, click [here](#) for the SSRN paper
- Robo Advising using Python: a new finance course; click [here](#) for the SSRN paper.

- An Innovative Way To Teach Courses in Finance, Economics, and Data Analytics, click [here](#) for the paper
- Individualized exams: click [here](#) for the paper and the accompanying video.  
source("http://datayyy.com/ind.txt")
- Dumping Big Data, click [here](#) for the abstract
- Information Asymmetry and Cross-Sectional Returns: A Re-Examination of the Relationship between Stock Return and the Adjusted Probability of Informed Trading (with Shaojun Zhang), click [here](#)
- On the consistency between the Fama-French monthly and daily factors, click [here](#)
- A new method to teach “Financial Modeling using Excel”, click [here](#)
- A new method to estimate PIN (Probability of Informed Trading), click [here](#)
- Individualized ChatGPT
- Machine Learning and PPP

### **PAPERS IN PROGRESS**

- An innovative way to teach courses in the areas of finance, economics, and data analytics
- Research quality benchmarked on Harvard
- Fetching data, code, documents, images, and other files easily
- Using Excel efficiently for the Binomial Tree option model (CRR model)
- Impact of the business cycle on asset pricing
- Market returns for overlapping generations
- A mixed-weighted market index

### **AD HOC JOURNAL PAPER REVIEWER**

- JBF (Journal of Banking and Finance)
- JFM (Journal of Financial Markets)
- JEFE (Journal of Economics and Finance Education)
- WBI (World Business International) Journal
- IREF (International Review of Economics & Finance)
- RBC (Research Business Consortium)

### **TEACHING RELATED PAPERS**

- How do you generate a QR code and put it on your syllabus?
- Teaching Programming Skills to Finance Students: How to Design and Teach a Great Course? , click [here](#).

### **CONFERENCE PRESENTATIONS**

- 2017: a) A new method to teach “Financial Modeling using Excel”, submitted to FMA  
b) Market returns for overlapping generations, submitted to the FMA meeting  
BRC 2018 annual conference, Niagara Falls, NY (accepted for a presentation)
- 2016: a) The business cycle and profitability of trading strategies  
the 11<sup>th</sup> Annual Business Research Consortium Conference, Niagara Falls, USA  
b) Information Asymmetry and Cross-Sectional Returns: A Re-Examination of the  
Relationship between Stock Return and the Adjusted Probability of Informed Trading  
International Conference on Applied Financial Economics, Shanghai, July 2016  
c) Teaching programming skills to finance students: how to design/teach a great course?  
i) World Finance Conference, NYC, NY, USA, July 29-31, 2016  
ii) UP-STAT 2016, Canisius, Buffalo, NY 2016  
iii) 2016 FMA annual conference, Las Vegas, USA

- 2015: a) Business cycle on investors' preferences and trading strategies (with S. J. Zhang),  
 i) Southwestern Finance Association annual conference, Houston, TX, USA  
 ii) FMA (Financial Management Association), Orlando, Florida, USA  
 b) Information Asymmetry and Cross-Sectional Returns: A Re-Examination of the Relationship between Stock Return and the Adjusted Probability of Informed Trading,  
 i) The 2nd Frontiers of Business Research in China International Symposium, Renmin University of China, Beijing, China (co-author S. Zhang will present)  
 ii) IFABS (International Finance and Banking Society) annual conference, Hangzhou, China (co-author, S. J. Zhang would present)
- 2014: Red vs. Blue Stocks: Politics and Profitability of Firms, 27th International Business Research Conference, Toronto, Canada
- 2012: Quality of PIN Estimates and PIN-Return Relationship, accepted for presentation, 2012 FMA, 2012 Atlanta, USA, China International Conference in Finance, Chongqing, China, Asian Finance Association 2012 International Conference, Taipei, Taiwan
- 2011: An internet-connected financial calculator, FMA, Denver, Colorado
- 2010: A new method to estimate PIN (Probability of Informed Trading), FMA, New York
- 2009: On the consistency between the Fama-French monthly and daily factors, FMA, Reno
- 2008: Towards unbiased portfolio daily returns, 2008 CRSP Forum, Chicago
- 2007: Estimating unbiased equal-weighted portfolio daily returns, EFA, New Orleans  
 Market Liberalization within a Country, with Q. Sun and W. Tong, Asian Finance Conference, Hong Kong
- 2006: An Improved method of calculating PIN and time variation in information-base trades (with S. Zhang), EFA, Asia/FMA, Auckland, New Zealand, Xi'an China Finance Annual Conference, Xi'an, China  
 Liquidity Measure and Technical Analysis, EFA, Philadelphia  
 The Need For and Construction of Real Estate Indices (with S. Freund), EFA, Philadelphia
- 2005: Open Interests as Predictor of Equilibrium Prices for the Maturity Date: Evidence from the US Equity & Options Market, (with R. Bhuyan and S. Freund), Chicago
- 2000: Skewness and Portfolio Selection: Evidence from Tokyo (with Q. Sun), FMA  
 Empirical Investigation of the Unique Linear Solution of the Term Structure of Interest Rate, (with C. Guo) NFA, Waterloo
- 1998: Double Liability, Moral Hazard and Deposit Insurance Schemes, FMA
- 1997: Incentive Compatible Risk-Sensitive Deposit Insurance Pricing Scheme, FMA
- 1996: Performance Measure, Timing, and ARCH effect, International Conference on Management Science & The Economic Development of China, Hong Kong

## **INVITED PRESENTATIONS**

- Impact of the business cycle on investors' preferences and trading strategies (with Shaojun Zhang), SUNY Geneseo (12/4/2019)
- Empirical Research: programming and data, Fudan University, Shanghai, China (6/18/2013)
- Red vs. Blue Stock: Political Influence on Profitability of Firms, Canisius College (2013), Hofstra University (2013)
- An Improved Estimation Method and Empirical Properties of the Probability of Informed Trading, the OFR, US. Treasury Department (2012), Credit Suisse, New York (2006)
- Open source finance, NYSU at News Belt (2012), Alfred University (2011)
- A new method to estimate PIN (probability of informed trading), Hofstra University (2010), University of Rhode Island (2009)
- Introduction to Lee and Ready Test, University of Texas A&M (2009)



## **BIG-DATA PROJECTS**

- A Big-Data exercise: store your TAQ database with a \$500 budget (1/3 done)
  - Export data as text files and zip them
  - Speed comparisons (SAS, R, Python, and C++)
  - Write various programs to retrieve and process data
- SEC filings:
  - Collect all quarterly index files from 1993 to 2014 (the tool is Perl)
  - Collect all 10K forms
  - Collect all 10Q forms

## **RESEARCH GRANTS**

- Nanyang Technological University 1998 (US \$2,700)
- Nanyang Technological University 1999 (US \$2,700)
- Nanyang Technological University 2000 (US \$4,100)
- Wilfrid Laurier University 1997 (US \$1,500)

## **SERVICE**

### **ADMINISTRATIVE SERVICES**

Committee member of the Center for Digital Learning (Geneseo, 2020 – now)  
Faculty senator (Canisius, 2017 – 2020)  
Committee member of Governance (Canisius, 2017 – 2020)  
Committee member of the Graduate Curriculum Committee (Canisius, 2013 – 2020)  
Committee member for preparing Data Analytics master degree program (2016 –2020)  
Committee member of the search committee for the director for the Data Analytics master's degree program (2017 – now)  
Department Ph.D. Program Coordinator (NTU, 2000-2002)  
Department Coordinator: Teaching Matter (NTU, 1998-2002)  
Student Awards Committee, Wilfrid Laurier (1997-1998)  
Data Analytics team (preparing our Data Analytics master program, 2016)

Associate Editor of Journal of Accounting, Finance and Economics (JAFE, 2015 – today)  
Associate Editor of Global Review of Accounting and Finance (GRAF, 2015 – today)

### **RESEARCH CONSULTING**

#### **Wharton Research Data Services (WRDS, 2003-2010) Technical Director**

- Answered several thousand questions from clients, e.g., how to merge different financial databases (such as CRSP and Compustat); how to replicate published papers using SAS
- Debugged clients' research-related programs
- Helped researchers with computer programs written in SAS, FORTRAN, C, or Matlab
- Generated research applications: Two examples: sample programs written in SAS, FORTRAN, and C to estimate beta for individual stocks by using CRSP data (Scholes and Williams, 1977); a SAS program implementing the Lee and Ready (1991) methodology to estimate trading direction by using high-frequency data
- Ran training sessions for clients
- Made numerous presentations for current and potential clients. Ran hands-on training sessions for the existing clients on how to use PC-SAS and UNIX SAS (see below)
- Helped updating CRSP nine times (annual updating)

- Checked the quality of the new data sets, numbers of unique stocks, and sample statistics for more than two dozen data sets and compared them with the previous versions
- Helped update Compustat seven times
- Checked the quality of the new data sets; offered sample statistics of new SAS data sets
- Helped update TAQ (High-frequency transaction data) over five years
- Used SAS, FORTRAN, and C to double-check the quality of the new updating
- Helped updating other databases such as PACAP, CSMAR (a Chinese database), OptionMetrics and NASDAQ, among others
- Helped Wharton Professors with their research; examples: Alex Edmans (JF, 2009), Christopher Armstrong et al. (2010, JAR).

## **WRDS RELATED TRAINING AND PRESENTATIONS**

2013: Hofstra University (FIN210, graduate students)  
 2010: Loyola University Maryland, WRDS' e-Learning: Intro to Lee and Ready (1991) test  
 2009: University of Rhode Island, University of Polytechnic, University of Hong Kong  
 2008: Western Virginia University, Hong Kong University, Chinese University of Hong Kong, Lehigh University, University of Calgary, U. of Toronto, George Mason University  
 2007: WRDS users meeting University of Pennsylvania  
 2006: U. of Melbourne, U. of Auckland, Waterloo U., Xiamen U., Shanghai Stock Exchange, Nanjing University, Nanjing University of Finance and Economics (China)  
 2005: Cheung Kong University (Beijing ), Fudan University (Shanghai, China)  
 2004: McGill, Chinese University of Hong Kong, Hong Kong University, National University of Singapore, HKUST, University of Montreal, Concordia, Tsinghua University China, City University of Hong Kong, NTU and Singapore Management University

## **COMPUTER EXPERTISE**

### **SAS**

- SAS certificates:
  - SAS Macro Programming: Advanced Topics (12/2007)
  - SAS Macro Language (12/2007)
  - SAS Programming II: Manipulating Data with the DATA Step (11/ 2007)
  - Multivariate Statistical Methods: Practical Research Applications (04/2006)
- Wharton Research Data Services, Technical Director
  - Debugged clients' research-related programs
  - Helped researchers with computer programs written in SAS
  - Generated research applications. Two examples: sample programs written in SAS, FORTRAN, and C to estimate beta for individual stocks by using CRSP data (Scholes and Williams, 1977); a SAS program implementing the Lee and Ready (1991) methodology to estimate trading direction by using high-frequency data
  - Ran training sessions for clients
  - Make numerous presentations for current and potential clients. Ran hands-on training sessions for the current clients on how to use PC-SAS and UNIX SAS (see below)
- A graduate course: Intro to SAS, CRSP, Compustat, and TAQ; click [here](#) for the syllabus
- A Data Analytics graduate course: Integrated Projects in Data Analytics I (Introduction to SAS and Big Data, DA520, F2017); click [here](#) for the syllabus
- A Data Analytics graduate course: Integrated Projects in Data Analytics II (Big Data Analytics using R and SAS, DA521, Spring, 2018); click [here](#) for the syllabus

### **R**

- My R webpage: click [here](#)

- My R book: click [here](#)
- MimicExcel, click [here](#) for the paper and  
`>source("http://datayyy.com/mimicExcel.txt")`
- A tool for text analysis  
`> source("http://datayyy.com/textAnalysis.txt")`
- Learning Excel  
`> source("http://datayyy.com/learnExcel.txt")`
- Journal Ranking  
`> source("http://datayyy.com/journal.txt")`
- Finding the locations for a firm's 10-K filings using R, click [here](#)
- A set of R programs for teaching option theory  
`> source("http://datayyy.com/f480.txt")`
- R sample program to download financial statements from Yahoo Finance  
`> source("http://datayyy.com/ratioAnalysis.txt")`
- R program to search our schedule, click [here](#)
- R for teaching Finance 101, click [here](#)
- Accessing real-world data from our classrooms in 2 seconds  
`> source("http://datayyy.com/pubdata.txt")`
- R program to encode and decode text messages  
`> source("http://datayyy.com/code.txt")`
- Financial calculator  
`> source("http://datayyy.com/fincal.txt")`
- Corporate Finance (FIN311 at Canisius College)  
`> source("http://datayyy.com/fin311.txt")`
- CRSP for Teaching using R (for illustration only)  
`>source("http://datayyy.com/crsp.txt")`
- Compustat for Teaching using R (for illustration only)  
`>source("http://datayyy.com/comp.txt")`
- TAQ for Teaching  
`>source("http://datayyy.com/taq.txt")`
- Load 6 Fama-French R data sets  
`>source("http://datayyy.com/loadFF.txt")`
- Financial Modeling using R (week 1)  
`>source("http://datayyy.com/fm.txt")`
- R data sets for teaching CAPM (Capital Asset Pricing Model), click [here](#) for IBM daily return RData and [here](#) for IBM monthly return RData.
- R data sets for teaching the Fama-French 3-factor model, click [here](#) for ffMonthly and [here](#) for ffDaily.
- Sample R program to retrieve CT (Consolidated Trade from the TAQ database  
`>source("http://datayyy.com/code_R/TAQgetTrade.txt")`
- Sample R program to retrieve CQ (Consolidated Quote from the TAQ database  
`>source("http://datayyy.com/code_R/TAQgetQuote.txt")`
- Sample program to merge trade and quote from TAQ binary (R, TAQ)
- Sample program to show trade given a ticker (R, TAQ binary, show\_trade())
- Random access TAQ binary index (R, TAQ binary index, random\_access\_idx(), done)
- Using R to retrieve data from TAQ binary index files (R, TAQ binary, show\_index(), retrieve\_index())
- RExcel, an Excel add-in (Use R from within Excel (chapter 43 in my book), Excel and R)
- Lee and Ready (1991) test using TAQ binary (R, TAQ binary)
- TAQ for teaching: using R to process high-frequency data

`http://canisius.edu/~yany/Appendix_A.pdf`  
> `source("http://datayyy.com/taq")`

- Mimic Excel functions  
> `source("http://datayyy.com/mimicExcel.txt")`
- Interactive finance (current project)  
> `source("http://datayyy.com/finInter.txt")`

## Python

- My Python webpage: click [here](#).
- Python for Finance, 2017, 2<sup>nd</sup> ed., *Packt Publishing*, click [here](#)
- Python for finance, 12 chapters, 2014, *Packt Publishing*, click [here](#)
- Using Python to teach Finance 101, click [here](#) for the SSRN paper

## MATLAB

- Help Alex Edmans (Wharton Assistant/Prof) with his paper (Matlab, 2008). Note: the article was published in the *Journal of Finance* 2009; click [here](#) for the paper
- Matlab sample programs to retrieve CRSP data stored in MySQL
- Replicate Robert Engle's paper (1999), "Dynamic Conditional Correlation- A simple class of multivariate GARCH models" (Matlab, SAS, 2005)

## C/C++

- Taught a course titled "Introduction to Financial Databases" at NTU for three years to doctoral students. The language of the course was C
- A free financial calculator (C++); click [here](#) to download it
- Taught a course called "Advanced Financial Modeling," C++ and related codes are discussed in addition to options theory
- Generated an index file for random access to the Canadian stock database (Western/Toronto Stock Exchange database)
- Using C to process various input data sets for my research
- Wrote a C sample program to process TAQ (high-frequency data)
- Wrote a sample program to estimate beta for a set of given tickers by using the CRSP database (posted on the WRDS platform)

## VBA

- Generate a geometric function (GEOMEANyan) for estimating a geometric mean for returns; click [here](#)
- Generate a comprehensive function (EFFECTyan) to convert one given effective rate to another one since the Excel EFFECT function gives only effective annual return; click [here](#)
- Codes for automatically downloading price data from Yahoo Finance
- Generate a true NPV function (NPVyan) since the Excel NPV function is a PV function; click [here](#)
- Generate a covariance function (COVARyan) that is consistent with the Excel VAR() function
- VBA codes for show formula () function; click [here](#) for the code.

## UNIX

- Good at vi
- Generated a set of SAS data sets related to CSMAR (A Chinese research database)
- Finished a project revamping all the web pages related to the CRSP index data sets (over 70 of them)
- Ran UNIX SAS to check the quality of new updates
- Ran various long jobs (several weeks) by using the nohup command

- Comparing speeds of processing TAQ data by using UNIX C, UNIX FORTRAN, and UNIX SAS

### **HPCC (High-Performance Computer Cluster)**

- Linked by vpn.wharton.upenn.edu
- Familiar with MobaXterm connection
- Run SAS and Matlab programs for the extended Brandt, Santa-Clara, and Valkanov (2009) model

GitHub repositories:

Mortgage calculator

<https://github.com/paulyxy/mortgate-calculator>

APR (Annual Percentage Rate), EF (Effective Rate) and EAR (Effective Annual Rate)

<https://github.com/paulyxy/Conversions-between-APR-Annual-Percentage-Rate-ER-Effective-Rate-and-EAR-Effective-Annual-Rat>

Python and Ganache: crypto transaction using a private key

<https://github.com/paulyxy/Python-Ganache-and-Crypto-transactions>

<https://github.com/paulyxy/Python-Ganache-and-Crypto-transactions/blob/main/app.py>

Which model, CAMP, FF3, FF4, and FF5 better?

<https://github.com/paulyxy/Which-asset-pricing-model-is-the-best-CAMP-FF3-FF4-or-FF5->

Streamlit cloud:

Python and Ganache: Crypto transaction using a private key

<https://paulyxy-python-ganache-and-crypto-transactions-app-7z7404.streamlit.app/>

APR, EF (Effective Rate) and EAR

<https://paulyxy-conversions-between-apr-annual-percentage-ra-app-pyksxb.streamlit.app/>

Mortgage Calculator:

<https://paulyxy-mortgage-calculator-app-5y1trx.streamlit.app/>

### **DATA EXPERT**

- Expert knowledge of the CRSP database (Center for Research in Security Prices)
- Expert knowledge of Compustat (Standard & Poor's)
- Expert knowledge of TAQ (High-Frequency trading data, New York Stock Exchanges)
- Generating over 100 R data sets from CRSP for teaching
- Generated over 100 R data sets from various open sources for economics, finance, and accounting
- Financial Databases (in Chinese), 2007, Tsinghua University Press (with Dr. Shiwu Zhu)
- Technical Director, Wharton Research Data Services (2003-2010)
- A big-data exercise: store your TAQ database with a \$500 budget
- Big data project: SEC filings

### **PROFESSIONAL MEMBERSHIPS**

- AFA, FMA, WFA
- Eastern Finance Association (EFA organization committee, 2008 annual conference)