



Jin Wang

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🏠 [Personal Website](#)

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EDUCATION

Ph.D. <i>Focus: Econometrics, Financial Economics</i> City University of New York, The Graduate Center	Aug. 2007 – May 2013 New York, NY
Master of Science <i>Major: CS in Machine Learning</i> Georgia Institute of Technology	Aug. 2020 – Present Atlanta, GA
Doctoral Consortium Program <i>Major: Mathematics of Finance</i> New York University	Aug. 2009 – May 2011 New York, NY
Bachelor of Science <i>Major: Engineering Geology and Hydrogeology, Minor: CS</i> Nanjing University	Aug. 1997 – May 2001 Nanjing, China

WORK EXPERIENCE

VP, Data Scientist JPMorgan Chase	July 2021 – Present Wilmington, DE
<ul style="list-style-type: none">• Lead a cross-functional data & analytics team in ML & AI product development garage• Develop scalable ML solutions to enhance customer persona for favorable financial outcomes• Provide POC for ML MVP initiatives in Consumer Banking• Build uplift model for heterogeneous treatment effect to ML product• Optimize customer conversion and minimize operational cost using A/B test, causality analysis and ML model	
Manager, Data Scientist Stride Inc.	April 2015 – July 2021 Herndon, VA
<ul style="list-style-type: none">• Led data science team in developing scalable statistical model, machine learning and data visualization applications to improve marketing effectiveness and optimize media buying• Built and automated multi-level Media Mix Model (MMM) and customer targeting model (Lookalike) for allocating media spend and scoring prospective customers• Proven experience with Multi-Touch Attribution (MTA) modeling through tracking data from Adobe Analytics• Identified incremental audience through Uplift modeling and Propensity modeling• Managed progressive conversion analysis across Paid Search, Social, Programmatic Display, Digital Audio, CTV, Broadcast TV, Radio and Affiliate• Developed automatic report through Python API with dashboard for real-time sales and media spend data• Created A/B test ETL and analytics tools for analyzing non-randomized data	
Manager of Data Analytics ADP LLC.	January 2014 – April 2015 Roseland, NJ
<ul style="list-style-type: none">• Worked in ADP Research Institute to release nationwide well-known ADP employment report, ADP annual health benefit report and ADP workforce vitality index report• Developed and deployed labor force Churn predictive model with ADP large US payroll data• Managed multiple projects in customer win/loss analysis, alignment of ADP payroll data with BLS reports and marketing database mining	

SELECTED PROJECTS AND RESEARCH

Uplift Model for Channel Engagement <i>Pyspark, Python</i>	Fall 2021
Customer level heterogeneous treatment effect model for channel engagement and payment	
Household and Geo Targeting Model <i>Python, R, SQL</i>	Fall 2020
Lookalike model with US customer database for scoring household and zip code	
State-level Media Mix Model with Bayesian Estimates <i>Python, R, SQL</i>	Summer 2020
Accurately estimating media attributable impact using Bayesian Structural Time Series	
U.S. Car Accidents Handling Time Prediction <i>Python, Flask, D3.js, HTML</i>	Spring 2020
Interactive Web Application with D3.js, Python Flask and SQL database	
A/B Test Automatic ETL and Analytics Tool <i>Python, SQL</i>	Fall 2019
Python application to fast conduct DMA media test and eliminate biasness in non-randomized settings	
API Automatic Hourly Spend and Sales Report <i>Python, SQL</i>	Summer 2019
Integrated data reporting visualization tool with API calls to 10+ media platforms	
Customer Life Time Value Model <i>Python, R, SQL</i>	Spring 2019
Multi-stage models through whole life time to measure average profit per customer and causal factors	
Propensity Model for Programmatic Display <i>Python, SQL</i>	Fall 2018
Predictive model to score prospective customers with respect to response rate to display ads	
Adstock Function Estimation from iSpot TV data <i>SQL</i>	Summer 2018
Unbiased estimation of long-tail TV impact from actual iSpot TV tracking data	
Database Mining for Real Incrementality <i>Python, SQL</i>	Spring 2018
Real incrementality estimation for direct mail campaign through matching customers by email and address	
How Accurate is Google Multi-touch Attribution Model <i>Python, SQL</i>	Fall 2017
Adjustment for biasness in MTA caused by imperfect tracking data and self-selection	
ADP Employment Report Realignment to BLS <i>SAS, SQL, R</i>	Fall 2014
20M+ US payroll data realigned to BLS survey report	
Top Five Reasons for Leaving a Job <i>SAS</i>	Summer 2014
Visualization of major causes for leaving a job using multi-year ADP employee survey data	

HONORS AND AWARDS

Employee of the Year	May 2017
Highest level of achievement for employee at Stride	
Enhanced Chancellor's Fellowship	June 2007
Highest merit based scholarship to new PhD student at Graduate Center, CUNY	
Graduate with Distinction	June 2006
Highest level of achievement of the year at University of Essex	

SKILLS

Languages: Mandarin , English

Programming: PySpark, Python (Plotly, Sklearn, NumPy, SciPy, Matplotlib, Pandas), R, SQL, D3.js, SAS, Scala

Document Creation: AWS, Microsoft Office Suite, LaTeX, Markdown, JupyterLab, Unix