

YOURAN PAN

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EDUCATION

Expected 12/23	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance	New York, NY
08/18 - 05/22	DUKE UNIVERSITY DUKE KUNSHAN UNIVERSITY B.S. in Applied Mathematics	Durham, NC Kunshan, China

• **Expected Coursework:** object-oriented programming (Java), decision trees, linear regression, Fama-French, Black-Scholes, derivative securities, quantitative portfolio theory, finite difference method, data-driven models, scientific computing regression

• **Coursework:** linear algebra, ODEs, PDEs, stochastic process, numerical analysis, mathematics of machine learning, econometrics

• **Awards:** Mathematical Modeling Context (honorable mention) 2021, Mathorcup Mathematical Modeling Challenge 2020 (group won 1st place)

EXPERIENCE

07/22 - present	ENHANCED HEALTHCARE PARTNERS (Healthcare-focused private equity firm)	New York, NY (remote)
	Investment Research & Data Analytics Intern (Python, SQL, Excel, Tableau)	
	• Researched macro trends, industry drivers, and market segments of plastic surgery industry	
	• Profiled 16 prospective pre-assigned investment targets by investigating locations, business descriptions, ownership, revenues, ratings, and rationales	
	• Used Python and SQL to manage data; calculated and analyzed it with Excel and SQL to find summary values and trends; correlated data using Tableau	
	• Presented market landscape research summary and recommended investment targets to manager	
12/20 - 05/22	DUKE KUNSHAN UNIVERSITY Research Assistant, Data Science Research Center (Python)	Kunshan, China
	• Developed web crawler to collect first-hand data for translated books from 3 online libraries; performed data cleaning and conducted analysis and visualizations; wrote and presented reports	
	• Sorted and merged information for Shanghai Library database	
05/21 - 08/21	Research Scholar (Python, R, STATA)	
	• Conducted literature review on healthy lifestyles using PubMed, WHO, and UN databases	
	• Accessed Yinzhou, China, databases collaboratively, and calculated influenza vaccine effectiveness using static decision tree model	

PROJECTS

03/20 - 04/20	DUKE KUNSHAN UNIVERSITY Air Transportation Overbooking and Revenue Management (Python)	Kunshan, China
	• Conducted literature reviews on overbooking and cabin control during COVID	
	• Created web crawler to collect demand and daily ticket sales data	
	• Developed pricing and SIR models	
05/21 - 08/21	CHINA UNIVERSITY OF MING & TECHNOLOGY Link Prediction With Deep Learning For Weighted Symmetric Graph in Undirected Graphs	Xuzhou, China
	• Reviewed latest research on social network analysis, specifically for recommender systems	
	• Contributed to proposing and testing weighted symmetric graph embedding approach based on deep learning for link prediction	

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, Java, MATLAB, SQL, Stata, R

Languages: English (fluent); Mandarin (native); Japanese (fluent)