

# YOURAN PAN

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## EDUCATION

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

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- 07/22 - present **ENHANCED HEALTHCARE PARTNERS** New York, NY (remote)  
(Healthcare-focused private equity firm)
- 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** Kunshan, China  
**Research Assistant, Data Science Research Center (Python)**
- 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

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- 03/20 - 04/20 **DUKE KUNSHAN UNIVERSITY** Kunshan, China  
**Air Transportation Overbooking and Revenue Management (Python)**
- 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** Xuzhou, China  
**Link Prediction With Deep Learning For Weighted Symmetric Graph in Undirected Graphs**
- 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

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

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