

# HUA (HANA) JING

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## EDUCATION

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| Expected 12/23 | <b>NEW YORK UNIVERSITY</b><br><b>The Courant Institute of Mathematical Sciences</b><br><b>M.S. in Mathematics in Finance</b> <ul style="list-style-type: none"><li>• <b>Coursework:</b> object-oriented programming (Java), regressions &amp; time series, data-driven modeling, deep learning, Black-Scholes, Monte Carlo simulation, stochastic calculus</li></ul>   | New York, NY   |
| 08/19 - 05/22  | <b>UNIVERSITY OF COLORADO, DENVER</b><br><b>B.S. in Mathematics, B.A. in Economics, minor in Data Sciences</b> <ul style="list-style-type: none"><li>• <b>Coursework:</b> machine learning, regression analysis, probability, real analysis, numerical analysis, PDE, linear algebra, econometrics, macroeconomics, microeconomics</li><li>• <b>Honors/Awards:</b> Magna Cum Laude, Dean's List every semester</li></ul> | Denver, CO     |
| 08/18 - 06/22  | <b>CHINA AGRICULTURAL UNIVERSITY</b><br><b>B.A. in Economics</b> (Joint Degree Program with CU Denver)   | Beijing, China |

## EXPERIENCE

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| 11/21 - 01/22 | <b>HUATAI SECURITIES</b><br><b>Quantitative Research Intern</b> <ul style="list-style-type: none"><li>• Projected upper and lower bounds of crude oil prices for next quarter by aggregating data from indices (e.g., US Dollar Index, PMI) as well as crude oil production; conducted analysis</li><li>• Used Python to complete Monte Carlo pricing model and simulate returns of snowball autocallable options after identifying their structure</li></ul>   | Remote Nanjing, China |
| 09/20 - 12/20 | <b>DELOITTE CONSULTING</b><br><b>Research Assistant</b> <ul style="list-style-type: none"><li>• Evaluated largest Chinese express delivery, logistics, e-commerce, and financial conglomerate by developing 5-year cross-industry strategic plan</li><li>• Assessed wide range of data with Python API; employed exponential smoothing to make recommendations to client about entering or expanding into 12 sub-sectors</li><li>• Predicted net income of client's parent company for forthcoming 5 years with regression methods in R</li></ul> | Beijing, China        |
| 01/20 - 03/20 | <b>SOOCHOW SECURITIES</b><br><b>Research Intern</b> <ul style="list-style-type: none"><li>• Analyzed communications company by reviewing development budgets, technology advancement, and potential customers; wrote published report with research results</li><li>• Read annual reports of 52 communications companies; compared data on public fund positions for 3Q19 using Excel VLOOKUP; calculated and evaluated quarter-on-quarter growth ratios</li></ul>  | Beijing, China        |

## PROJECT

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| 02/22 - 05/22 | <b>ZAP ENERGY &amp; UNIVERSITY OF COLORADO, DENVER</b><br><b>Computational Accuracy and Efficiency in Solving Partial Differential Equations (Python)</b> <ul style="list-style-type: none"><li>• Built finite difference solution functions for 1-D, 2-D, and 3-D spherical heat equations to contribute to Zap Energy's fluid dynamics study</li><li>• Compared speed and accuracy of calculations with GPU's and CPU's capabilities to calculate numerical solutions; depicted errors in grids and time steps</li></ul> | Denver, CO |
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## COMPUTATIONAL SKILLS / OTHER

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**Programming Languages:** Python, Java, R

**Languages:** English (fluent), Mandarin (native)

**Other Experience:** Research Assistant at University of Colorado Denver focusing on Development Economics (Stata, Latex, and GIS); Volunteer Group Leader helping 300+ patients from rural areas of China (Hospital Guidance)