

# RUIHAN ZHUANG

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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:** Machine learning, risk management, portfolio management, strategy simulations, data science, extreme-value theory, copulas, VaR, expected shortfall, stochastic calculus, Black-Scholes, arbitrage, risk-neutral valuation, log-normal hypothesis, derivatives, Feynman-Kac equation
- 09/18 - 03/22 **UNIVERSITY OF CALIFORNIA SAN DIEGO** San Diego, CA  
**B.S. in Mathematics-Computer Science**
- **Coursework:** OOP (Java, C++), data structures, agile methods, algorithms (e.g., greedy, graphs), statistics (hypothesis testing, MLE estimators, multivariate densities, Poisson process), econometrics (linear regression, IV estimators), multivariate calculus, linear algebra
  - **Honors/Awards:** 2021-2022 UC San Diego Physical Science Dean's Undergraduate Award for Excellence, Cum Laude

## EXPERIENCE

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- 07/22 - 08/22 **E FUND MANAGEMENT** Guangzhou, China  
(Largest public fund in China, AUM \$236B)
- Equity Analyst Intern**
- Analyzed Chinese automobile company BYD and effects of government policies on new-energy vehicle industry
  - Reviewed sell-side research reports and government statistics to determine causes of BYD's success with its best-selling models
  - Summarized BYD's advantages in battery and semiconductor production
- 07/21 - 08/21 **CHENGQI ASSET MANAGEMENT** Shenzhen, China  
(AUM \$4B)
- Quantitative Research Intern**
- Developed alpha-generating trading strategies using Python by leveraging stock market data, sell-side analytics forecasts, and company financial reports
  - Backtested alpha signals and analyzed their performance after risk factor and sector neutralization; improved several alpha signals
  - Experimented generating alpha by extracting market sentiment using sell-side forecasts

## PROJECTS

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- 12/20 - 06/21 **UNIVERSITY OF CALIFORNIA SAN DIEGO (Javascript, CSS)** San Diego, CA  
**Contribute to Research in Combinatorial Game Theory and App Development**
- Conducted research and developed 2 mathematical games – as website and native app; created installation packages for MacOS and Windows; designed games' UI
  - Added new modules to open-source toolkit commonly used in combinatorial game theory to compute games' theoretic values
- 07/20 - 09/20 **INDEPENDENT PROJECT (Python)** Qingdao, China  
**Application of Machine Learning Models**
- Designed and built housekeeping robot that recognizes human figures and controls flashlight to track and deter intruders
  - Customized heavy-duty pan-tilt hat, ensuring sufficient torque and control of flashlight rotation
  - Researched different machine learning models to find human-shape-recognition model suitable for robot with limited processing power

## COMPUTATIONAL SKILLS / OTHER

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**Programming Languages:** C++, C, Java, Python

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