

# Sirui CHEN

sirui.chen.sc3234@yale.edu | 203-901-7303 | New Haven, CT

## EDUCATION

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### Yale University, New Haven, United States

*M.S. in Environmental Management. Specialized in Business and Renewable Energy.*

Sep 2021 – Jun 2024

- ♦ **Core Courses:** Renewable Energy Project Finance, Security Analysis and Valuation, Corporate Finance.

### Tsinghua University (THU), Beijing, China

*B.Eng. in Environmental Engineering. Specialized in Renewable Energy. GPA: 3.7/4.0*

Aug 2018 – Jun 2021

*B.A. in Economics and Finance (Dual Bachelor's Degrees.)*

Aug 2017 – Jun 2021

### Columbia University, New York, United States

*Exchange Student in Columbia College. Specialized in Alternative Energy Resources.*

Jan 2020 – May 2020

## WORK EXPERIENCES

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### Stone Street Group LLC

*Research Associate Intern*

New York City

Jul 2023 – Present

- ♦ **Real Estate Market Analysis:** Tracked 30-year mortgage interest rates and maintained real estate industry database. Analyzed current real estate market and conducted market analysis reports for industrial and commercial projects.
- ♦ **Due Diligence:** Provided financial analysis and environmental review for real estate projects due diligence, including key return metrics calculation, insurance policies review, and demographic research and market analysis.

### Morgan Stanley Investment Management (MSIM)

Jul 2023 – Sep 2023

*Summer Analyst, Buy-side Equity Research*

- ♦ **Fundamental Research:** Researched on the semiconductor equipment industry and thin film solar device industry, focusing on PVD, CVD, ALD and metallization technology, by analyzing leading company's key financial ratios, revenue drivers, and industrial trends, to evaluate future growth and potential risk.
- ♦ **Security Analysis:** Monitored and analyzed financial trends of target companies, which are major players of lithography and coating equipment companies, including ASML, Applied Materials, Sundrive, Suzhou Maxwell, etc.

### China International Capital Corporation (CICC)

Dec 2021 – Aug 2022

*Equity Research Intern, Electricity and New Energy Research Group*

- ♦ **Fundamental Research:** Conducted in-depth research on the electric and renewable energy sector to forecast company earnings, market demand, and politics trends to identify investment opportunities. Made roadshow promotion slides and relevant publicity materials, and completed relevant meeting minutes.
- ♦ **Database Management:** Maintained internal database to monitor the price trends across upstream and downstream of PV industry chain using SQL, resulting in significant increase in analysis efficiency.

### Loyal Valley Capital (LVC)

Jun 2021 – Sep 2021

*Intern, Consumer Goods Group*

- ♦ **Database Construction:** Based on databases including Euromonitor, Capital IQ, and Burning Rock, constructed the database of the colored contact lens industry, encompassing market size, value chains, key growth drivers, and competitive barriers, culminating in a comprehensive industry report spanning over 60 pages.
- ♦ **Pitch Initiation:** Conducted PEST analysis of the maternal and infant care equipment industry, outlining industry trends, consumer preferences, and competitive landscapes. The current market size is close to 2 billion, with a long-term ceiling projected at 2.5 billion. Completed a 20+ page proposal for the target company.

### PricewaterhouseCoopers (PwC)

Jan 2021 – Apr 2021

*Intern, Accounting*

- ♦ **Financial Audit:** Participated in annual reviews for two firms, preparing drafts and trial balances, validating employee benefits, and discrepancies between payable employee salaries and book values.
- ♦ **Strategic Client Analysis:** Engaged in interviews with company management for industry insights and assessed the feasibility of expanding offline fitness stores due to market penetration rates.

## RESEARCH EXPERIENCES

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### Quantitative Portfolio Optimization with ESG Factors

Sep 2023 – Present

- ♦ **Data Analysis:** Analyzed and visualized ESG & Climate data on S&P 500, including ESG Rating, Carbon Intensity, Temperature Score, and Carbon Reduction Target, using Python.
- ♦ **Fundamental Research:** Researched on companies with low ESG ratings/high emissions to evaluate the cause and assess carbon reduction plan, to enhance risk management and informed investment advice.
- ♦ **Portfolio Optimization:** Utilized Python for portfolio optimization, to maximize the Sharpe ratio while adhering to ESG constraints and exclusions, and other risk controls.
- ♦ **Risk Management:** Analyzed the change in the risk adjusted return under various risk constraints by controlling the sector exposure, active share, ESG Beat the Benchmark, carbon reduction, etc.
- ♦ **Responsible Investment:** Reviewed and analyzed companies' progress towards carbon reduction targets and Net Zero, providing informed advice on company selection to promote sustainable investing.

## SKILLS & INTERESTS

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**CFA Level II Candidate; Language:** Chinese (Native), English (Professional proficiency)

**Software:** Bloomberg, Capital IQ, Wind, Factset, Python, SQL, VBA, Tableau, STATA, SPSS, ArcGIS, Dealogic

**Interests:** trumpet (Tsinghua University Symphony Orchestra), football (Tsinghua University Women's Football Club)