

# YIHAN WANG

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## EDUCATION

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<b>Duke University</b>	2026 – 2028
<i>M.S. in Interdisciplinary Data Science (MIDS)</i>	Durham, NC
<b>Duke Kunshan University (DKU) &amp; Duke University</b>	2022 – 2026
<i>B.S. in Applied Mathematics and Computational Science (dual degree)</i>	Kunshan, China / Durham, NC
<ul style="list-style-type: none"><li>GPA: 3.5/4.0; Merit-based Scholarship (RMB 170,000); Dean's List (Spring 2023).</li><li>Relevant Coursework: Stochastic Processes for Finance, Numerical Analysis, Graph Analysis with Matrix Computation, ODE &amp; Dynamical Systems, Advanced Linear Algebra, Complex Analysis, Probability &amp; Statistics.</li></ul>	

## RESEARCH EXPERIENCE

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<b>Quantitative Finance / NLP Research</b>	Jul 2024 – Dec 2024
<i>DKU Semester Research Program at Duke; Supervisor: Prof. David Ye</i>	Durham, NC
<i>Real-Time Sentiment Pipeline (Semester Research)</i>	Aug – Dec 2024
<ul style="list-style-type: none"><li>Engineered an end-to-end real-time pipeline connecting a TWS virtual account via <code>ib_insync</code> to ingest live news, routing text through 3 NLP models (ChatGPT, FinBERT, BERT) and returning per-article sentiment scores with confidence.</li><li>Benchmarked model performance on streaming data across latency, accuracy, and cost; logged all metrics via CloudWatch to drive iterative prompt and model tuning.</li></ul>	
<i>Framework &amp; Benchmarking (Summer Program)</i>	Jul – Aug 2024
<ul style="list-style-type: none"><li>Designed a unified evaluation framework for 3 LLM/NLP models; built automated benchmarking scripts on 4 public datasets with a standardized prompt-engineering protocol.</li><li>Deployed model endpoints to AWS (Lambda + API Gateway); replicated results from FinBERT and “Sentiment Analysis in the Age of Generative AI,” identifying methodological inconsistencies in a recent publication.</li></ul>	
<b>RINDSTU 393 – Superconductivity</b>	Aug 2023 – Jul 2025
<i>Research Independent Study; Supervisor: Prof. Xiawa Wang</i>	Kunshan, China
<ul style="list-style-type: none"><li>Synthesized pure samples of <math>\text{Li}_3\text{Re}_3\text{Te}_2\text{O}_{12}</math> and <math>\text{Pb}_9\text{Cu}(\text{PO}_4)_6\text{O}</math>; characterized via Raman spectroscopy, XRD, resistivity testing, DSC, and DFT calculations.</li><li>Co-authored and presented research at the 17th International Conference on Materials Chemistry (MC17, Royal Society of Chemistry).</li></ul>	

## INTERNSHIP EXPERIENCE

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<b>Quantitative Investment Department Intern</b>	May 2025 – Jul 2025
<i>Guotai Fund (RMB 710bn AUM; Top 15 nationwide)</i>	Shanghai, China
<ul style="list-style-type: none"><li>Produced 140+ internal newsletters spanning 15+ industries (robotics, renewables, biopharma, mining, etc.).</li><li>Authored a 10,000-word deep dive on Chinese &amp; U.S. ETFs for the Product Research team, covering methodology, structure, fees, and liquidity; sourced data via Bloomberg Terminal.</li></ul>	
<b>Business Assistant, Securities Investment &amp; Debt Finance</b>	Jul 2023 – Aug 2023
<i>Huatai Securities (Top 3 brokerage; RMB 814bn total assets)</i>	Nanjing, China
<ul style="list-style-type: none"><li>Authored two industry research reports on AI covering market size, policy, competition, and investment outlook.</li><li>Coordinated daily operations: corporate bond financing materials, securities project data, and business documents.</li></ul>	
<b>Assistant Product Manager, Financial Markets</b>	Jun 2023 – Jul 2023
<i>Bank of China (Jiangsu Province Branch)</i>	Nanjing, China
<ul style="list-style-type: none"><li>Calculated pricing and daily quotations of forex derivatives (forwards, options); executed compliance checks for the annual administrative review.</li></ul>	

## ADDITIONAL INFORMATION

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**Skills:** Python, MATLAB, Bloomberg Terminal, AWS (Lambda, CloudWatch), Origin,  $\LaTeX$

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

**Leadership:** Resident Assistant at DKU; Communications Coordinator, Duke House Council; Organizer, DKU ParkRun (+107.5% attendance growth)

**Teaching:** TA for MATH 101 Calculus; TA for GLHLTH 101 (2 semesters)

**Interests:** Bel Canto, Kendo, Guzheng (Level 7)