

# LINGUO REN

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## EDUCATION

**Bowdoin College**, Brunswick, ME

**Expected May 2025**

**B.A. in Computer Science and Mathematics, Minor in Education, GPA: 3.7/4.0**

*Coursework:* Advanced Data Science, Financial Machine Learning, Deep Learning & Computer Vision, Mathematical Reasoning, Probability, AI Ethics, Cognitive Architecture, Japanese Politics, United States-China Relations, Jazz Combos, Photography

*Grua/O'Connell Award (2023):* Undertook an 800-mile bikepacking journey along the East Coast Greenway, exploring the impact of social privilege on greenway usage by connecting with local cyclists for overnight stays and interviews; featured in *The Quoddy Tides*

## WORK EXPERIENCE

**Pinestone Asset**, Shanghai, China

**July 2024 – August 2024**

*Quantitative Researcher*

- Consolidated 7+ million entries of stock market indices (CSI 300 and SSE 50) from 3 vendors into a unified 20-year dataset using Pandas and NumPy, informing market strategies and reducing overhead computation time for related projects by 20%
- Resolved hundreds of abnormal data points by conducting historical research while documenting the data cleaning process to ensure transparency, reproducibility, and consistency
- Simplified data analysis by developing a Python-based time-interval slicing tool to augment dataset with customizable timeframes, generating descriptive statistics to uncover actionable insights for advanced trading strategies
- Enhanced the company's Python-based visualization tools by expanding support for diverse data inputs, introducing intuitive debugging warnings, implementing dual y-axis charts to compare variables with distinct units (e.g., volume vs. price), and optimizing color contrasts and spacing to improve aesthetics and clarity

**Sealand Securities**, Shanghai, China

**June 2023 – August 2023**

*Data Analyst*

- Preprocessed trading data from vendors using SQL and Pandas, curating market briefings and generating analytics datasets
- Certified in IBM's Data Science Specialization (10-course series), focusing on data wrangling, cleaning, visualization, report writing, and hands-on experience with Python libraries, machine learning models, and techniques

**Academic Technology & Consulting, Bowdoin College**, Brunswick, Maine

**May 2022 – September 2022**

*Canvas Migration Project Assistant*

- Reviewed the accuracy and accessibility of 1,500+ courses on a new campus-wide Learning Management System (LMS)
- Identified and resolved accessibility issues by implementing OCR-compliant PDFs to meet the college's accessibility standards, improving content accessibility and inclusivity for 2,000+ users

**Residential Life, Bowdoin College**, Brunswick, Maine

**May 2023 – Present**

*Proctor*

- Facilitate 50+ dinners and reflective conversations on social justice, violence prevention, and mental well-being, fostering an inclusive environment that empowers 30 first years to grow and engage actively in the community
- Mediate conflicts between residents by promoting active listening, open communication, and collaborative resolutions
- Conduct interviews with deans to select qualified candidates for leadership roles in the College Houses and Residential Life

**Howell House (Formerly "Alpha Delta Phi Society"), Bowdoin College**, Brunswick, Maine

**August 2022 – June 2023**

*Programming Chair*

- Managed a \$6,000+ budget to implement inclusive programs such as a Friendsgiving dinner for students unable to travel home, a Halloween "Haunted House" event for children in Brunswick area, and a Tea & Stitch session during reading period
- Collected feedback from sophomores to develop career, wellness, and entertainment initiatives in collaboration with Residential Life, student government, and deans, hosting events like a spikeball tournament and a gala to build class identity

## PROJECTS AND SKILLS

**Abnormality Detection in Stock Market with Unsupervised Learning**

**April 2024 – May 2024**

[Project Link](#)

- Extracted compressed latent representations of high-frequency trading data using Temporal Convolutional Network Autoencoder, preserving temporal dependencies and reducing data dimensionality for anomaly clustering and detection
- Grouped trading behaviors based on similarities by applying hierarchical clustering algorithms to encoded representations and visualized the results using dendrograms

### Technical Skills:

Proficient in: Python (Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, PyTorch, NLTK), R (Tidyverse, ggplot2), Java, SQL  
Exposure to: Stata, LaTeX, HTML, CSS, JavaScript, React, C, Git

**Languages:** Chinese (Native), English (Bilingual Proficiency), Spanish (Intermediate)

**Hobbies:** Rowing, Cycling, Ice Hockey, Running, Nordic Skiing, Lacrosse, Day Hike, Jazz Band