

Ray (Rui) Li

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EDUCATION

Columbia University, MS in Operations Research, GPA 3.95/4.00 New York, NY | Expected Dec 2026
Courses: Transportation & Supply Chain Analytics, Optimization Models, Stochastic Models, Simulation, Probability & Statistics, Machine Learning, Applied Analytics (Python, SQL).

Renmin University of China, Bachelor of Economics, GPA 3.72/4.00 Beijing, CN | Sep 2021 – Jun 2025
Harvard Summer School (2024) — Economics of Innovation.

PROFESSIONAL EXPERIENCE

Data Analytics Intern, Columbia University Office of Sustainability New York, NY | Nov 2025 – Present

- Automated a supplier-procurement data workflow covering 50,000+ items per year, replacing manual Excel cleaning with Python functions, a standardized file-naming scheme for any month or year, and automatic calculator input — cutting processing time ~95% with fewer errors.
- For Columbia's first STARS sustainability rating since 2018, handled the food & dining section: coordinated with supplier Sysco on a procurement dashboard, interviewed dining managers, and verified metric definitions against the technical manual.
- Extracted the climate & energy inputs from a 26-sheet 2025 GHG inventory, mapping each rating question to its source data.

Administration & Function Owner Intern, CARIAD China (Volkswagen Group China) Beijing, CN | Sep 2024 – Mar 2025

- Reconciled ~400 team assets in an internal audit, tracing transfers, departed owners, and storage status across teams to close out every record, and tracked device procurement records in SAP.
- Compiled weekly defect metrics (new vs. resolved bugs, weekly resolution rate) by exporting tracking-platform data to Excel with IF-based filters, giving the project manager a weekly view of delivery status.
- Ran on-road tests of new software releases, logging runs with esoTrace, calculating average reaction time in Excel, and sending logs and results to the development and management teams.
- Translated ~50 contractor-written PRDs from Chinese to English in 2 weeks in Confluence, self-teaching automotive terminology, so the German HQ team could review requirements.

Data & Investment Analytics Intern, China Galaxy Securities Beijing, CN | Jan 2024 – Apr 2024

- Screened 3,000+ listed companies' legal issues, profits, debts, etc. for due diligence in Chinese market via Wind financial data terminal, supported smooth launching of new alternative business.
- Decomposed five years of private-offering-stock returns into systematic and excess (alpha) yield in Excel and the terminal's API, computing win rates by price range and industry to inform product strategy, supported development of asset management product.

Data Analytics Intern, Yinhua Fund Management Beijing, CN | Jul 2023 – Aug 2023

- Built a parallelized R tool computing returns across 100M+ purchase-date × holding-period scenarios for 8 industries, cutting runtime per industry from 3 days in Excel to 2 hours (97%).
- Presented the method and maintenance steps to the team so the tool became a reusable process rather than a one-off task.

PROJECTS

Childcare Facility Location Optimization (Team Lead) Sep 2025 – Oct 2025

- Built Python/Gurobi models to close childcare supply–demand gaps across New York State at minimum funding, formulating capacity-expansion decisions and a 0.06-mile minimum-spacing constraint.
- Split 3 sub-tasks across team pairs and delivered a Jupyter notebook, map visualization, and recommendations to the state.

Columbia Evening Shuttle Routing & Simulation Oct 2025 – Dec 2025

- Coded a pickup/drop-off TSP routing model and Dijkstra shortest paths in Python with a zone-safety priority constraint; simulated against 247K historical rides, cutting unsafe-zone wait times 17.9% and raising service rate 14.9 points.

LEADERSHIP

Head of Social Media & Digital Communications, Student Association, RUC Beijing, CN | Jun 2022 – Jun 2024

- Organized 2 campus-wide photography contests (100+ participants each), owning the plan, schedule, budget, rules, sign-ups, and judging end-to-end.

SKILLS

- Supply Chain & Operations:** demand forecasting, inventory management, constraint-based optimization (Gurobi), scenario analysis & simulation, procurement and asset-record tracking (SAP), data validation, process improvement.
- Analytics & Tools:** Excel (VLOOKUP, IF functions), Python (pandas, NumPy), SQL (BigQuery), R, Tableau, Looker, Jira, Confluence.
- Collaboration & Communication:** cross-functional coordination, stakeholder management
- Languages:** Mandarin Chinese (Native), English (Fluent), French (Elementary).