

Leila Salken

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EDUCATION

Williams College, *Bachelor of Arts*, Williamstown, MA Sept. 2023 – June 2027
Major: Mathematics; Minor: Computer Science
Awards: Benedict Prize for the outstanding sophomore in Mathematics

Oxford University, *Visiting Scholar*, Oxford, UK Sept. 2025 – June 2026
Selected to attend the Williams-Exeter Programme at Oxford

Coursework

Probability, Topology, Complex Analysis, Fourier Analysis, Deep Learning, Algorithms, Statistical Modeling

RESEARCH & ANALYTICS EXPERIENCE

Jane Street, *Incoming Strategy & Product Intern*, New York, NY Aug. 2025 – Present

Dartmouth College, *Undergraduate Research Assistant*, Hanover, NH June 2024 – Aug. 2024

- Designing an algorithm to uniformly sample Markov Equivalence Classes to support robust testing in Causal Discovery research with Prof. Bijan Mazaheri
- Developed and tested Python-based MCMC simulations; constructed mathematical proofs to verify correctness of algorithms

Williams Physics Department, *Research Assistant* Sept. 2024 – Jan. 2025

- Collaborated on the construction and instrumentation of a prototype dark matter detector under Prof. Graham Giovanetti
- Optimized Python scripts for a slow control processor system to monitor and control mass flow rates

National Urban League, *Finance & Analytics Intern*, New York, NY May – Aug. 2024

- Led analysis of multi-year transportation data, proposing strategies projected to cut costs by 10%
- Researched AI applications to reduce racial bias in financial and housing services; presented findings to executive team

Williams College Investment Office, *Winter Apprentice* Jan. 2024

- Explored portfolio theory, asset allocation, and endowment governance within Williams' \$3.5B investment framework
- Conducted independent research on King's College's investment model; presented comparative analysis to investment leadership

KPMG Caucasus and Central Asia, *Deal Advisory Intern*, Astana, Kazakhstan June – Aug. 2023

- Supported valuation of a major Kyrgyz commercial bank, synthesizing financial data across global benchmarks
- Researched and shortlisted 30+ companies using Capital IQ for a telecom M&A transaction; contributed to final client deliverables

LEADERSHIP & COMMUNITY EXPERIENCE

Oxford Qazaq Society, *Events Manager* Sept. 2025 – Present

- Organize and coordinate cultural events, design posters, communicate with administrators

Mathematics and Economics Departments, *Teaching Assistant* Jan. 2024 – May 2025

- Supported courses in Linear Algebra, Multivariable Calculus, and Intermediate Macroeconomics
- Led office hours, graded assignments, and advised students; recommended curriculum improvements to professors

Student Math & Stats Advisory Board, *Sophomore Representative* Sept. 2024 – May 2025

- Organized weekly faculty-student teas and department t-shirt sales to foster community and engagement
- Collaborated with faculty on tenure-track hiring and curricular planning; managed annual budget and logistics

Concert Choir, *Piano Accompanist* Feb. – May 2025

- Rehearsed, accompanied 10+ choral movements for live performance; demonstrating adaptability and coordination

SUPPORTING SKILLS

Programming Languages: Python, SQL, Java, R, Pytorch

Languages: Kazakh (native), Russian (native), English (fluent)

Interests: Lifeguard certification, volleyball, piano, dombyra, photography, dance