

# Daniel Brin

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## Actuarial Exams

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Exam P – Probability, Society of Actuaries, Passed July 2025

Exam FM – Financial Mathematics, Society of Actuaries, Scheduled for October 2025

## Education

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**The University of Chicago**, Chicago, IL

*Bachelor of Science in Mathematics*, June 2025

GPA: 3.43 / 4.00

## Relevant Coursework

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- Statistical Methods and Applications I-II
- Real Analysis I-II-III
- Honors Calculus I-II-III
- Introduction to Computer Science I-II
- Numerical Analysis
- Abstract Algebra I-II

## Experience

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**The Chicago Biomedical Consortium**, Chicago, IL

Jul 2024 – Sep 2024

*Bio-Entrepreneurship Intern*

- Built an Excel-integrated AI pipeline to extract and filter thousands of biomedical research abstracts.
- Performed a formal analysis of LLM models on a test case dataset. Identified optimal prompt structure.
- Presented AI tools to executive leaders and implemented rollout that improved company-wide workflow.
- Compiled and organized databases of biotechnology funding sources to support strategic decision-making.
- Wrote documentation to train the intern team. Delivered a team presentation on AI use cases.

**Section of Heart Failure at UChicago Medicine**, Chicago, IL

Jun 2023 – Sep 2023

*Data Analysis Research Assistant*

- Queried and compiled large-scale electronic health records for advanced heart failure patients.
- Designed a mathematical model predicting cardiac performance across patient risk profiles.
- Conducted technical research using R and machine learning techniques. Secured project IRB approval.

**UChicago Biological Sciences Division**, Chicago, IL

Jun 2023 – Aug 2023

*Quantitative Biology Research Fellow*

- Delivered weekly presentations on statistical approaches to emerging questions in quantitative biology.
- Represented the program at the Society for Mathematical Biology international research conference.

**ChiTribe**, Chicago, IL

Jun 2023 – Sep 2023

*Web Development and Event Production Intern*

- Developed algorithms to optimize back-end data sorting procedures and integrate applications.
- Built and administered a WordPress platform supporting thousands of community events.

**Research Experience for Undergraduates**, IUPUI, Indianapolis, IN

Jun 2022 – Jul 2022

*Research Assistant*

- Designed a mathematical model on the influence of alcohol in neural circuitry and function in mice.
- Led research presentations at team meetings and at the Indiana Undergraduate Math Research Conference.

## Technical Skills

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Python, R, MATLAB, SQL, Microsoft Office, Microsoft Excel (advanced: PivotTables, Power Query, VBA)