

# Logan D. Graham

Website: [LoganDGraham.github.io](https://LoganDGraham.github.io)  
Email: [logan.graham@stonybrook.edu](mailto:logan.graham@stonybrook.edu)  
GitHub: [LoganDGraham](https://LoganDGraham)

## EDUCATION

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### Stony Brook University (SBU)

Ph.D. Candidate in Applied Mathematics & Statistics

Stony Brook, NY

2017–2022 (estimated)

- Advisor: Joseph S.B. Mitchell ([Wikipedia entry](#)); GPA: 3.93/4.00

### University of Missouri (MU)

B.S.: triple major in Economics, Mathematics, and Statistics

Columbia, MO

2012–2016

- Highest honors (i.e., MU’s “University Honors”); GPA: 3.70/4.00

## EXPERIENCE

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### SBU Department of Applied Mathematics & Statistics

Ph.D. Candidate and Fellow, Research Assistant, Lead Instructor, Teaching Assistant

Stony Brook, NY

2017–Present

- Led research progress at the frontier of the literature, won 3 teaching excellence awards, and developed multi-disciplinary skills as a winner of a highly-selective, lucrative, NSF-affiliated Ph.D. fellowship awarded to roughly 6 STEM students each year.

### Numerica Corporation

Research Scientist Intern

Fort Collins, CO

Summer, 2020 & 2019

- Developed cutting-edge prototype-software in Python and in Julia, leveraging advanced mathematics expertise. Projects: (1) interceptor guidance with asymmetric information, (2) efficient resource utilization in the Numerica telescope network. Topics: algorithms, game theory, optimization, simulation.

### Agrium

Data Scientist

Loveland, CO

2017

- Led financial, statistical analysis software development research with autonomy. Communicated big data-driven insights to board members of a mega-corporation, unveiling \$20+ million of practicable annual savings opportunities.

### Rollins Capital Partners

Quantitative Analyst Intern

Columbia, MO

Summer, 2016

- Lent quantitative background on special assignments. Received one-on-one mentoring from a highly-successful hedge fund and private equity fund manager, John Wright. Read 7 books about financial crises.

### Cornerstone Wealth Management

Quantitative Researcher Intern

Des Peres, MO

Summer, 2015

- Enhanced an automated, fundamental analysis-based fund-selection tool for a fund-of-funds portfolio. Exposed to a variety of investing perspectives in one-on-one mentoring from Alan Skrainka, former head of research at Edward Jones.

## RESEARCH KEYWORDS

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algorithmic game theory, algorithms, optimization, complexity, computational geometry, data structures, graph theory, probability, resource allocation, sensor networks, simulation, stochastic processes. **See CV for publications.**

## PROGRAMMING & TECHNICAL SKILLS

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• **Classified Clearance:** U.S.A. Classified-Secret (active).

- **Julia:** expert (favorite language).
- **Python:** expert.
- **Rust:** intermediate.
- **C, C++, Mathematica, R:** hobbyist (eager to master).
- **Computing:** bash, Excel, git,  $\text{\LaTeX}$ , Powerpoint, secure computing (e.g., with classified data), Unix/Linux, Vim.

## TRAITS & SOFT SKILLS

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- **Character:** inquisitive, loves puzzles and intellectual challenges, collaborative, pressure-seeking, low burnout risk, comfortable admitting mistakes to superiors.
- **Communication:** public speaking to a variety of audiences and technical levels, teaching and tutoring.
- **Leadership:** mentoring, supervisor on research efforts and as an instructor, setting goals with and organizing the workloads of subordinates.

## SELECTED AWARDS

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- **Fellowships and Scholarships:** Science TRaining to Inform DEcisions (STRIDE) Ph.D. fellowship (full scholarship and \$34k+ annual stipend); National Defense Science & Engineering fellowship, alternate awardee; MO Bright Flight award (scored above 99th percentile on ACT); Curator's Scholarship, MU.
- **Graduation Distinctions:** University Honors, MU; Departmental Honors (×3), MU Economics, Mathematics, Statistics; Honors College Certificate, MU; Latin Honors, *cum laude*, MU; Omicron Delta Epsilon, MU.
- **Awarded Positions:** Research assistant position, SBU (×2, full scholarship and stipend); Instructor position, SBU (×4, full scholarship and stipend); Teaching assistant position, SBU (×2, full scholarship and stipend).
- **Other:** Mensa International member (scored in excess of the 99.9th percentile on the WISC III IQ test, professionally-administered); Excellence in Teaching Award, SBU (3/3 semesters); Dean's List, MU (8/8 semesters).