

# Ryan S. Brill

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## Education

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### University of Pennsylvania

Aug 2020 – Present

*Applied Mathematics and Computational Science, Ph.D.*

*Expected May 2025 | Philadelphia, PA*

- Benjamin Franklin Fellowship. 3.97 gpa.
- Bayesian statistics, statistical prediction, applied probability, mathematical modelling, and sports analytics.

### University of California, Berkeley

Aug 2016 – May 2020

*Mathematics and Statistics B.A., Computer Science Minor*

*Berkeley, CA*

- Regents' and Chancellor's Scholarship: awarded to top 2% of applicants.

## Experience

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### Research

- Currently working on several research projects with Wharton statistics professor Abraham Wyner
- Penn Sports Analytics Reading Group | Co-Creator | *Philadelphia, PA. Mar. 2021 – Present*
  - We read papers and discuss research in sports analytics.
- CRM-PIMS Summer School in Probability | *Montreal, Canada (Virtual). May 2021 – June. 2021*
  - “PDEs and Mean-Field Disordered Systems” & “Optimization in Random Discrete Systems”
- Undergraduate Honors Thesis | *Berkeley, CA. Sept. 2020 – Dec. 2020*
  - “Graph Neural Network as a Branching Heuristic in Solving Quantified Boolean Formulas.”
- Research in Industrial Projects for Students | *Singapore, Singapore. June 2019 – Aug. 2019*
  - “Exploring a Type Theoretic Environment in Python.” Presented at JMM 2020 in Denver, CO.

### Industry Experience

- Stout, LLC. | Complex Securities Valuation intern | *Los Angeles, CA., June 2018 – Aug 2018*

### Teaching

- TA for Math 312 Linear Algebra | *University of Pennsylvania, Spring 2022*
- TA for Math 314 Advanced Linear Algebra | *University of Pennsylvania, Fall 2021*
- TA for Wharton Moneyball Academy | *University of Pennsylvania, Summer 2021*

### Projects

- Atme | Creator | *Berkeley, CA. Jan. 2020 – June 2021*
  - Created iOS app “atme”, on the app store from June 2020 – June 2021, which is Instagram with a twist: your profile consists of what your friends post to you, not of what you post for yourself.
- Bet, Sweat, and Forget Podcast | Co-Creator | *Berkeley, CA. Sept. 2019 – Present*
  - Each week during the NFL season, Ryan Brill and Nick Miller make \$50 worth of NFL bets, competing to have the highest profit by season's end.
- Calhat Enterprises | Co-Creator | *Berkeley, CA. Aug 2016 – Jan 2018*
  - Created “calhat”, a hat brand marketed to college students, manufactured thousands of hats from China through Alibaba, led guerilla marketing/branding campaign, and expanded to 5 universities.

## Skills and Interests

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- *Coding:* R, Python, Latex, Swift, Java, C, Excel, Ableton, FL Studio, Photoshop, Premiere Pro
- *Interests:* Sports, Betting, Poker, Music, Traveling, Nature, Mountain Biking