Brayden Look

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Summary

- Former digital communications and signal processing engineer pursuing a PhD in Statistics.
- Experience in consulting and applied statistical analysis.
- Current research interests in multivariate estimation and detection.

Education

Colorado State University (2022–Current)

- Pursuing PhD in Statistics
- MS in Statistics (2024)

University of California, Los Angeles (2017–2019)

- BS in Electrical Engineering (2019)

Employment

Colorado State University – Fort Collins, CO
Graduate Assistant (2022–Current)

As a graduate student, I've been funded primarily through the following work:

- **Consulting**: I have spent over 200 hours in CSU's Graybill Statistical Consulting walk-in lab. This ranged from high level consulting (e.g., general statistical modeling advice) to more granular work (e.g., help with programming statistical software).
- **Teaching**: I have taught or assisted in teaching a variety of introductory statistics courses at the undergraduate level.
- **Tutoring**: I have more than 300 hours of paid tutoring experience for introductory statistics and math courses at the undergraduate level.

The Aerospace Corporation – El Segundo, CA
Associate Member of Technical Staff (2019 – 2022)

As an associate MTS, my responsibilities were to perform analysis for digital communications research questions, program simulation tools, and gather results into reports. This work often included:

- **Simulation**: Writing code to simulate digital communications systems for testing scenarios.
- **Code Optimization**: Using profilers to find bottlenecks and rewriting existing code to improve simulation speed for more effective analysis.
- **User Interface**: Creating graphical user interfaces to make simulation tools accessible to non-technical customers.
- **Documentation**: Writing documentation for all of the above, as well as presenting summaries of results for both technical and non-technical audiences.

Skills and Other

Programming: MATLAB, Python, R
Clearances Active: Secret

Misc

Basketball: I'm interested in the national basketball association (NBA) and I enjoy doing statistical projects in my free time with real NBA data. Some of those projects include: a shot quality model using random forests to estimate expected field goal percentages for each player in the league, a bayesian particle filter to estimate shooting ability, and more.