

# Addison Adams

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Statistician, Researcher, PhD

## Experience

**Research Staff Member** – Institute for Defense Analysis (IDA) (May 2022 – Current)

- Test Science Statistician: Consult and Research
  - Provide statistical consultation both internally to IDA and government sponsor. E.g., update statistical methodologies to the DoD's Hard Armor Testing Protocol
  - Research: Design of Experiments, Evaluation of AI and AI-enabled systems, Decision Theory
- Land Expeditionary Warfare, Test Science Representative
  - Review statistical methodologies for externally published memos, reports, and products from the Land Expeditionary Warfare working group
  - Manage statistical consulting requests and assign work to statisticians within the working group
- Army & Marine Aviation Program Analyst
  - Recommend best Testing and Evaluation practices to government sponsor
  - Analyze operational test data
  - Provide independent findings and recommendations to government sponsor
  - Write memos, reports, presentations for the government sponsor
  - Observe operational testing of military systems
- Division Summer Associate Coordinator
  - Coordinate the division's Summer Associate Program
  - Interview, hire, and manage Summer Associates and their mentors

**Graduate Research Assistant** – Rocky Mountain Research Station (Jan 2023 – May 2024)

- Provide statistical consultation for researchers within the US Forest Service

**Graduate Teaching Assistant** – Colorado State University (Aug 2020 – January 2023)

**Actuarial Associate** – Blue Cross of Idaho (Jan 2019 – Jul 2020)

- Measure, analyze, and report client healthcare cost performance
- Consult clients by analyzing data trends and deep-dives
- Design, build, and revise analytical tools through Excel and SQL queries

**UVU Math Lab Assistant Coordinator & Mathematics Tutor** – Utah Valley University (August 2016 – Dec 2018)

- Hire, train, and manage UVU Math Lab math/stats tutors
- Create and produce math/stats tutoring videos for students
- Revise and teach GRE Quantitative preparation course

**Pension Actuarial Intern** – Aon (Jun 2018 – Aug 2018)

- Conduct experience studies to validate/update actuarial assumptions
- Prepare analytical reports for the consulting actuary

**Honors Cyber Intern** – Federal Bureau of Investigation (June 2017 – Dec 2017)

- Splunk Software Administrator
- Create visuals for readable network health data

## Education

**PhD, Statistics** – Colorado State University - May 2024

- Dissertation: A Novel Approach to Statistical Problems Without Identifiability
- Research focus: Stochastic Inverse Problems, Nonparametric statistics, Identifiability, Empirical Bayesian

**Bachelor of Science, Mathematics** – Utah Valley University – May 2019

- College of Science Valedictorian

## Additional Qualifications

### Programming Languages/Experience:

Proficient: R, SQL

Used: Python, C++, C#, Proval, Splunk

### Actuary Exams:

Probability, Financial Mathematics, Investment and Financial Markets, Short-term Actuarial Mathematics, Predictive Analytics, Statistics for Risk Modeling

### Continuing Education:

GTRI Basic Electromagnetic Warfare, GTRI Radar Fundamentals

## Publications

### Published:

Adams, Addison D. 2024. *A Novel Approach to Statistical Problems Without Identifiability*. Available from ProQuest Central.

Fairchild, M.P., Swigle, B.D., Adams, A., Murray, J., Baggett, L.S. and Carroll, C. (2025), *Off-Highway Vehicle Use Degrades a Mountain Stream: A Case Study Evaluating Recreation Impacts, Restoration Efficacy, and Assessing Vulnerability of Headwater Streams in the Central Rocky Mountains*. *River Res Applic.* <https://doi.org/10.1002/rra/4433>

### In Peer Review:

Moore, A.R., Adams, A.D. *The effect of analytical variation on empirical biological variation derived analytic performance specifications in the veterinary clinical pathology laboratory*. *Veterinary Clinical Pathology*. *In-peer review*.

Adams, Addison D., Zhou, Tianjian, Estep, Donald, Wang, Haonan. *A New Approach to Random Coefficient Regression*. *Biometrika*. *In-peer review*.

### IDA Reports (a few highlighted IDA reports):

Butler, Lindsey D., Adams, Addison D., Haman, John T., Nobles, Kadie P. and Webber, Thomas R. 2025. *Revised Draft Input for the Hard Body Armor Ballistic Test Protocol*. IDA Product 3004624.

Colci O'Hara, Madalina, Adams, Addison D., Green, Elizabeth A. and Tranfaglia, Joseph C. 2025. *Final Review of the SkyTower II Quick Reaction Assessment Test Plan*. IDA Product 3004801.

Adams, Addison D. DeBisschop, Kevin M., Green, Elizabeth A., Tranfaglia, Joseph C. and Weber, Paul W. 2025. *(U) Test and Evaluation Concept for the Common Tactical Truck (CTT)*. IDA Product 3002802.

Adams, Addison D., Webber, Thomas R. and Weber, Paul W. 2025. *Power Analysis of Soldier-in-the-Loop Aim Error Test Plan*. IDA Product 3004434.

Medlin, Rebecca M. and Adams, Addison D. 2023. *JSM 2023: Comparing Normal and Binary D-Optimal Designs by Statistical Power*. IDA Product 3000032.

Lefebvre, Jonathan N., Adams, Addison D., Allison, Stacey L., Tranfaglia, Joseph C., Vickers, Brian D. 2025. *Test and Evaluation Concept for Future Tactical Uncrewed Aircraft System*.

Butler, Lindsey D., Adams, Addison D., Brady, Matthew D., Weber, Paul W., Cseko Jr., Andrew, Grandinetti III, Saul A., and Webber, Thomas R. 2025. *Next Generation Squad Weapon (NGSW) Lethality Integrated Assessment Test and Evaluation Concept*.

Haman, John T., Medlin, Rebecca M., and Adams, Addison D. 2025. *Design of Experiments (DOE) for Operational and Live Fire Test Planning*.