

# THOMAS JOHN WEAVER

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## EDUCATION

**School of Medicine and Dentistry, University of Rochester**

**Rochester, NY**

**Master of Arts, Statistics** – Awarded 2024 – GPA: 3.8

**Doctor of Philosophy, Statistics** – Expected 2028

**College of Science - College of Liberal Arts, Rochester Institute of Technology**

**Rochester, NY**

**Bachelor of Science, Applied Statistics with Data Analytics – Economics – Minor: American Politics** – Awarded 2023

*Summa Cum Laude* – GPA: 3.9

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## EXPERIENCE

**University of Rochester**

**Rochester, NY**

**Teaching Assistant, Intro to Statistical Computing in R & SAS**

**August 2024 – December 2024**

- Teaching Assistant for graduate level course in R and SAS in the Department of Biostatistics and Computational Biology
- Graded homework assignments and lab reports, and held office hours for students who required additional help

**Excellus Blue Cross Blue Shield**

**Rochester, NY**

**Actuarial Intern**

**June 2022 – August 2023**

- Spearheaded the creation of the Power BI Affordability Dashboard, which leveraged data modeling, slicers, drill downs, tables, and a variety of visualizations to assist Opportunity Analytics in spotting and investigating opportunities for savings
- Reported on potential savings in Skilled Nursing Facility (SNF) claims from a new program for cardiac rehabilitation
- Brought formatting of the Trend Analytics and Trend Drill Down Dashboards in line with company standards

**Quality Vision International**

**Rochester, NY**

**Quality Analyst – Data Assistant**

**July 2020 – August 2021**

- Scanned and uploaded over 50,000 documents for over 2,000 metrology machines to the Document Management System
- Calculated average cycle times for various phases of the manufacturing process, leveraging SmartSheet and Power BI
- Extracted time to complete various machine operations and labor hours documented on each machine by department
- Created visualizations of Non-Conforming Part (NCP) data for executive presentations, and sent daily NCP reports to quality control, analyzed cost of poor-quality metrics, pulling data from Cloud Suite International 9
- Wrote work instructions for various final inspection processes, such as licensing procedures

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## COURSEWORK

- **Graduate Coursework:** Causal Inference, Bayesian Inference (including Hierarchical Modeling), Biostatistical Methods I & II, Statistical Inference I, Statistical Inference II (Asymptotics and Large Sample Theory), Linear Models, Generalized Linear Models, Probability Theory (Measure Theory), High Dimensional Data Analysis, Intro to Statistical Computing in R & SAS
- **Graduate Coursework (Spring 2025):** Survival Analysis, Clinical Trials
- **Undergraduate Coursework:** Calculus III, Physics I: Waves, Physics II: Optics, Honors Linear Algebra, Advanced Linear Algebra, Regression Analysis, Mathematical Statistics I & II, Game Theory, Discrete Math, Actuarial Math, Math in Finance, Design of Experiments, Statistical Quality Control, Statistical Software – R, International Trade and Finance, Intermediate Microeconomic Theory, Intermediate Macroeconomic Theory, Econometrics, Natural Resource Economics

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## RESEARCH

- **Environmental Health:** Currently working with Dr. Sally Thurston to implement a longitudinal model to determine associations between a time weighted postnatal methylmercury exposure metric and six domains of cognitive functioning in the Seychelles Child Development Study, paper (potentially) to be published by the end of 2025
- **Cluster Ensembling:** Implemented simulations and contributed ideas to a new coassociation-matrix-based clustering algorithm under development by Dr. Luke Duttweiler, paper to be published by Summer 2025
- **Computational Neuroscience:** Worked this past summer with Dr. Sam Norman-Haignere comparing Local Field Potential and Broadband Gamma responses to different categories of natural stimuli via Semi-NMF implemented with torch

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## SKILLS & MEMBERSHIPS

R – SAS – Python – Longitudinal – Causal Inference – Survival Analysis – Bayesian Inference & Hierarchical Modeling – GLM

*American Statistical Association Member: Rochester Chapter – Mensan – T32 Environmental Health Training Grant Trainee*