

# Patrick Batsell

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## EDUCATION

### Rice University

*BS in Operations Research and Statistics, Minor in Data Science*

Houston, TX

May 2027

- GPA: 3.96
- Coursework: Probability & Statistics, Linear Algebra, Deep Learning, Operations Research & Optimization, Stochastic Modeling, Linear Regression, Computational Thinking, Data Science and Machine Learning

## PROFESSIONAL EXPERIENCE

### Rice University

*Undergraduate Researcher — Supervised by Dr. Richard Baraniuk*

Houston, TX

Oct 2025 – Present

- Exploring the Geometry of Training on Synthetic Data: Submitted paper to ICLR 2026 DeLTa Workshop

### Nanyang Technological University

*Undergraduate Researcher — Supervised by Dr. Bihan Wen*

Singapore

May 2025 – Sep 2025

- Built benchmark for evaluating fine grained classification in Vision Language Models; created synthetic dataset of 8,000+ images with controlled attributes and designed classification tasks to test color, size, and texture understanding; submitted paper to ICIIP 2026

### MD Anderson Cancer Center

*Undergraduate Researcher — Supervised by Dr. Andrew Schaefer*

Houston, TX

Jan 2025 – Present

- Working to discover cost parameters for treating *H. pylori*, gastric intestinal metaplasia, and gastric cancer.
- Reviewed 1,500+ research paper abstracts to assess relevance for systematic literature reviews on disease screening costs

## PROJECTS & AWARDS

### Rice Datathon

*2nd Place*

Houston, TX

Feb 2025

- Built and evaluated four models (random forest, gradient-boosted trees, SVM, logistic regression) to identify patients with mental disorders from EEG signals, achieving 85% classification accuracy.

## LEADERSHIP & INVOLVEMENT

### Rice University Statistics Department

*Teaching Assistant*

Houston, TX

Jan 2026 – Present

- Led weekly lab sections and guided students through solving biostatistics problems with code in R
- Graded assignments and designed classes to reinforce core skills.

### Rice University Computer Science Department

*Teaching Assistant*

Houston, TX

Aug 2025 – Dec 2025

- Held weekly office hours and guided students through problem-solving strategies in Python.
- Assisted professors with grading assignments and designing practice problems to reinforce core skills.

### Datathon

*Director*

Houston, TX

Oct 2023 – Feb 2024

- Secured and maintained sponsor relationships, contributing to event funding.
- Oversaw marketing, outreach, and technical support.

## SKILLS & INTERESTS

- **Technical Skills:** Python, R, Gurobi, Machine Learning, Computer Vision, Pytorch, Latex
- **Languages** English (Native Speaker), Mandarin
- **Interests:** Water/snow skiing, fitness/weightlifting,