

Patrick Batsell

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EDUCATION

Rice University <i>BS in Operations Research and Statistics, Minor in Data Science</i>	Houston, TX May 2027
<ul style="list-style-type: none">• 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 <i>Undergraduate Researcher — Supervised by Dr. Richard Baraniuk</i>	Houston, TX Oct 2025 – Present
<ul style="list-style-type: none">• Exploring the Geometry of Training on Synthetic Data: Submitted paper to ICLR 2026 DeLTa Workshop	
Nanyang Technological University <i>Undergraduate Researcher — Supervised by Dr. Bihan Wen</i>	Singapore May 2025 – Sep 2025
<ul style="list-style-type: none">• 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 ICIP 2026	
MD Anderson Cancer Center <i>Undergraduate Researcher — Supervised by Dr. Andrew Schaefer</i>	Houston, TX Jan 2025 – Present
<ul style="list-style-type: none">• Working to discover cost parameters for treating <i>H. pylori</i>, 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 <i>2nd Place</i>	Houston, TX Feb 2025
<ul style="list-style-type: none">• 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 <i>Teaching Assistant</i>	Houston, TX Jan 2026 – Present
<ul style="list-style-type: none">• 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 <i>Teaching Assistant</i>	Houston, TX Aug 2025 – Dec 2025
<ul style="list-style-type: none">• 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 <i>Director</i>	Houston, TX Oct 2023 – Feb 2024
<ul style="list-style-type: none">• 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,