

Alex K. Jorns

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Education

Bachelor of Science in Mathematics, Optimization and Statistics

May 2028

The University of Alabama, Tuscaloosa, AL

Randall Research Scholar Program, Honors College, GPA: 3.9

Research Experience

Researcher, The Fashion Archive – Spectrophotometric Color Analysis

Aug 2025 – Present

- Conduct spectrophotometric measurement of 1910s textile color cards using NiX Pro - providing precise, digital color data to preserve historical textiles
- Develop computational models in CIE Lab space to analyze palettes with statistical and machine learning methods - enhancing the Archive's research capabilities
- Build interactive Python visualizations including over 200 color samples to support both scholarly and public interpretation
- Preparing submission to the *International Conference on Design Principles and Practices: Design Across Time* in Rome

Research Assistant, Mapping Personal Finance Education

Sep 2024 – July 2025

- Collected and analyzed data from 10,000+ schools to uncover gaps in personal finance education
- Spearheaded natural language processing in Python to extract key themes from 25+ professional research articles
- Synthesized insights into an interactive Power BI dashboard to support policy-focused recommendations
- Presented findings at URCA and ACCI; awarded 1st place in the national undergraduate poster competition

Skills

- Technical: Python, JavaScript, Svelte, C, HTML, CSS, Excel, Power BI, Git, GitHub
- Research: Data Visualization, Natural Language Processing, Database Management

Technical Projects

Finalist: IDA Business Analytics Case Competition

Oct 2025

- Developed a pitch presentation analyzing an 84.51° dataset to provide data-driven recommendations for future coupons and promotions
- Selected as one of the top two teams and presented findings to a panel of industry professionals and faculty judges

Data-Driven Narrative: Visualizing Inequality in the Deep South

July 2025

- Built an interactive scrolltelling web app using Svelte and JavaScript to visualize socioeconomic disparities
- Developed scenes highlighting correlations between poverty and education using D3 scatter plots

College Collage, Founder

Aug 2023 – Present

- Developed an app to support under-resourced students with college advising
- Led a team to submit proposals for the Big Ideas and ALDAG Student Business Plan Competitions
- Presented at House of Code after winning the LA01 Congressional App Challenge

Work Experience

Research Intern, Biz New Orleans

May 2025 – Present

- Lead the launch of the Data Hub by curating, cleaning, and organizing comprehensive datasets on local industries, enabling data-driven insights for research and public reporting
- Assisted in compiling and managing the annual Biz 500 list, highlighting the 500 most influential people in New Orleans

Event Programmer, University Programs

May 2025 – Present

- Coordinate inclusive student events across campus, contributing to 150+ annual events, with over 11,000 students participating last year

Organizations

Girls Who Code College Loop, President and Founder

Jan 2025 – Present

- Founded the College Loop at UA, recruiting members and coordinating with faculty
- Organize coding workshops for middle and high school students, culminating in a hackathon

Association of Computing Machinery - Women

Aug 2024 – Present

- Competed in a club hackathon, building Meflect, a mood-tracking website that earned second place

National Retail Federation Student Association, Secretary

Aug 2024 – Present

- Manage chapter records; represented UA at the NRF Foundation Student Program 2024 in New York