

## Christine Jator

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### SUMMARY

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At Austin Peay State University, I have maintained a 4.0 GPA, engaged in research projects, given several presentations, remained on the Dean's list, and participated in campus organizations and off-campus ministries. I have also been admitted into Southern Methodist University's PhD Statistical Science Program to start in the fall of 2025. I am honored to have received many awards and joined in research opportunities and tutoring experiences.

### EDUCATION

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**Austin Peay State University**, Clarksville, TN

Expected Graduation: May 2025

- *BS in Mathematics (Statistics/Data Science Concentration)*
- *Minor in Finance*
- *Relevant Coursework:*
  - **CSCI 2000:** Programming for STEM (Python)
  - **MATH 3010:** Introduction to Math Reasoning
  - **STAT 3250:** Statistical Methods
  - **MATH 3450:** Linear Algebra
  - **STAT 4120:** Introduction to Regression Analysis
  - **STAT 4130:** Experimental Design
  - **STAT 4240:** Probability
  - **STAT 4250:** Introduction to Math Statistics
  - **STAT 4290:** Introduction to Predictive Analytics
  - **MATH 4321:** Introduction to Symbolic Computation (R-programming language)
  - **MATH 4450:** Introduction to Mathematical Modeling

### AWARDS & RECOGNITIONS

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- **Nell Rayburn High Impact Practice Award** (\$100 prize): recognized a student who has made significant contributions to their field of study through high-impact experiences, such as internships or research projects (2024)
- **Harold Love Outstanding Community Service Award Nominee:** nominated for the Harold Love Outstanding Community Service Award, which recognized students who have demonstrated dedicated public service (2024)
- **Student Testimonial for Marketing Austin Peay State University:** recruited to write a testimonial about my journey at Austin Peay State University, postcards of this testimonial with my photo were sent to potential incoming freshmen (2024)
- **Ken & Amy Landrum Scholarship of Excellence** (\$10,000/yr): awarded to undergraduate full-time Mathematics students with at least a 3.0 GPA (2023-present)
- **Jim & Sharon Ridenhour Statistics Award** (\$1,000/yr): awarded to full-time Mathematics students with a Statistics Concentration (2023-present)
- **Outstanding Student for Office of Alumni, Engagement and Philanthropy:** spotlight recognition in end of year letter sent to donors and alumni asking them to give back to the university (2023)
- **Tami Fraley Character Award:** awarded to a student who demonstrates outstanding character through honesty, integrity, respect and compassion for others (2023)
- **Henry and Monika Mathematics and Economics Scholarship** (\$1,000/yr): awarded to students majoring in Mathematics or Economics (2022-present)
- **Mathematics Scholarship** (\$1,300/yr): awarded to undergraduate Mathematics students at least half-time enrolled and at least a 2.75 GPA (2022-2023)
- **Ken & Amy Landrum Mathematics Scholarship** (\$4,000/yr): awarded to students majoring in Mathematics with full-time enrollment (2022-2023)

- **Outstanding Sophomore Award:** awarded to one sophomore demonstrative of outstanding performance (2022)
- **Dean's Scholarship** (\$3,500/yr): awarded to students with at least a 3.5 GPA as a full-time student (2021-present)
- **TN Lottery Hope Scholarship** (up to \$4,500/yr): awarded to entering freshman enrolled at eligible postsecondary institution within sixteen months after graduating from eligible high school in Tennessee (2021-2023)
- **Hattie Walker Wilhoite Award:** awarded to African American women active in campus leadership and/or excellent in the classroom (2021-2022)

## TECHNICAL SKILLS

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- *Computer Languages:* (R, Python, SQL, ArcGIS, MatLab, Netlogo)
- *Skills:* Statistical and Data Analysis, Data Collection, Data Visualization, Regression, Problem-Solving

## RESEARCH EXPERIENCE FOR UNDERGRADUATES

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**Summer Undergraduate Mathematics and Statistics Accelerator (SUMSA)**, *"Graduate" Student*, Chicago, IL:

- Completing rigorous graduate-level Mathematics coursework at the University of Chicago; the goal of the program is to "help prepare students for the rigors of graduate school in a mathematical science with lecture series and problems sessions taught by experienced postdocs and advanced graduate students" (Summer 2024)

**Data Science for Social Good Research Program at Southern Methodist University**, *Researcher*, Dallas, TX:

- Analyzed Dallas, TX eviction data throughout the COVID-19 Pandemic (Summer 2023)

## WORK EXPERIENCE

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**Peer Tutoring**, *Peer Tutor*, Clarksville, TN:

- Tutoring Austin Peay State University students one-on-one in various topics: Precalculus, Statistics, Macroeconomics, and more (Fall 2024-present)

**Private Tutoring**, *Algebra II Tutor*, Clarksville, TN:

- Tutoring a high school student in honors Algebra 2 in 2023 and then Precalculus in 2024 (Fall 2023-Fall 2024)

**James Corlew Chevrolet Cadillac Dealership (now "Sera of Clarksville")**, *Internet Sales Specialist*, Clarksville, TN:

- Internet Sales Specialist: contacted potential customers online to buy, sell, or trade a vehicle, thereby developing business opportunities and more car sales (Summer 2021-Summer 2023)

## RESEARCH PROJECTS & PRESENTATIONS

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**Mathematical Association of America Southeastern Conference**, *Presentation*, High Point, NC Spring 2025

- Presented the Food Insecurities in a Blooming Rural Town Research in the Mathematics Association of America Southeastern Section Conference and participated in the Mathematics Jeopardy Competition (February 27-March 1, 2025)

**2025 Joint Mathematics Meetings Conference**, *Presentation*, Seattle, Washington Spring 2025

- Presented the Clustering Analysis of Weight Status & Nutrition Distinctions Research in the Undergraduates Pi Mu Epsilon Session at the largest annual Mathematics Meeting (JMM) in the world (January 8-11, 2025)

**A Clustering Analysis of Weight Status & Nutrition Distinctions Across the U.S.**, *Senior Project* Fall 2024

- Implemented Clustering Algorithms & Data Mining techniques on Behavioral Risk Factor Surveillance System to investigate how obesity, physical activity, and nutrition vary across the U.S.

**Food Insecurities in a Blooming Rural Town: A Statistical Analysis, *Independent Project*** Spring 2024

- Utilized Logistic Regression to identify which food insecure populations are more likely to receive food stamps in Clarksville, TN; Clarksville results were compared to Murfreesboro, TN populations and the nation as a whole population; submitted abstract to present at the OSRI 2025 Student Research & Scholarly Activity Symposium at Austin Peay State University (April 23, 2025) and the Joint Statistics Meetings (JSM) (August 2-7, 2025)

**Southern Demographic Association Conference, *Presentation*, San Antonio, TX** Fall 2023

- Presented Evictions Research from SMU's Data Science for Social Good Research Program at Southern Demographic Association Conference (October 18-20, 2023)

**A Premature Gut, *Agent Based Modeling Project* (Math Modeling Class), Clarksville, TN** Fall 2023

- Simulated probiotic and pathogenic bacteria in the gut to examine under which spatial conditions probiotics outcompete pathogenic bacteria to improve the health of infants suffering from Necrotizing Enterocolitis (a gastrointestinal disease that destroys intestinal wall tissue)

## PROFESSIONAL & CAMPUS ORGANIZATIONS

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**Pi Mu Epsilon Honor Society, *Pi Mu Epsilon Member*, Clarksville, TN** Spring 2024-present

- Society is "dedicated to the promotion of mathematics and recognition of students who successfully pursue mathematical understanding." Members of this society must be a "full-time student, must have completed at least two years of college-level mathematics courses, and must have maintained a minimum GPA of 3.0 in all mathematics courses."

**Delight Women's Ministry, *Delight Leader*, Clarksville, TN** Spring 2024-present

- Lead college women to remain steadfast in the Christian faith and encourage club activity participation

**Galois Math Club, *Math Club Member*, Clarksville, TN** Spring 2023-present

- Engaged in mathematical career discussions and club events

**Delight Women's Ministry, *Delight Member*, Clarksville, TN** Fall 2023

- Actively participated in meetings and club activities

**STEM Scholars, *STEM Scholar*, Clarksville, TN** Summer 2021-present

- Upper-level STEM students collaborated with STEM faculty and staff to explore a rich environment of research and leadership opportunities

## COMMUNITY ENGAGEMENT

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- Volunteers at Pardue Memorial Freewill Baptist Church: Car washes, Babysitting, Serving Food, Yard Sales, Nursing Home Visits
- Outside of Church Service: Cooks, bakes, and delivers meals to the elderly, babysits on weekends

## REFERENCES

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- **Dr. Karen Meisch**, Dean of College of STEM, *Austin Peay State University*, [meischk@apsu.edu](mailto:meischk@apsu.edu)
- **Dr. Ramanjit Sahi**, Professor of Mathematics, Graduate Coordinator for Mathematical Finance, *Austin Peay State University*, [sahir@apsu.edu](mailto:sahir@apsu.edu)
- **Dr. Sumen Sen**, Professor of Mathematics, *Austin Peay State University*, [sens@apsu.edu](mailto:sens@apsu.edu)