

Sassou Khabou

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Education

- M.S. Mathematical Sciences, University of West Florida, May 2027 (expected)
- M.S. Data Science, University of West Florida, (4.0 GPA), December 2025
- B.S. Chemistry, Florida State University (FSU), (3.82 GPA), May 2019

Teaching Experience

- **Instructor of Record, UWF**
 - MAC1105, College Algebra
 - MAC2233, Calculus with Business Applications
- **Graduate Teaching Assistant, UWF**
 - MAC1105C, College Algebra with Lab
 - MAC1114, Trigonometry
 - MAC2233, Calculus with Business Applications
 - MAC2313, Analytic Geometry and Calculus III
 - STA2023, Elements of Statistics
 - STA5126, Statistics for Data Science I
 - CAP5756, Tools for Data Science

Work Experience

- **Instructor**, College Algebra & Business Calculus, UWF Math and Statistics Dept (Aug 2025-Present)
- **Data Visualization and Data Consolidation Intern**, UWF Haas Center (Jul 2025-August 2025)
 - Assisted in redesigning the Haas Center website to make data visualizations easier to read.
 - Helped collect and analyze demographic and economic data for the Florida Panhandle region (e.g., labor force participation rate, cost of living, commute times, etc.).
- **Graduate Teaching Assistant**, UWF Math and Statistics Dept (Jan 2024–Present)
- **Laboratory Technician in Physical Testing Lab**, Ascend Performance Materials (Aug 2023-Nov 2023)
 - Performed physical lab testing on nylon plastics, such as impact testing, tensile strength testing, deflection temperature under load (DTUL), dielectric testing and many others.
- **Simulation Center Intern**, Edward Via College of Osteopathic Medicine-Auburn (Aug 2021–Jun 2022)
 - Aided 1st and 2nd year medical students in Standardized Patient (SP) encounters and manikin simulation events (e.g., intubations, newborn deliveries, etc.)

- **Medical Scribe**, Emergency Room, Baptist and West Florida Hospitals, (Aug 2019–Mar 2020)
- **Undergraduate Research Assistant**, Chemistry Department, FSU, (2016-2019)
- **Private Tutor**, General Chemistry, Organic Chemistry, and Mathematics (2017-Present)

Research Experience

- Manganese-Doped One-Dimensional Organic Lead Bromide Perovskites with Bright White Emissions
 - Synthesized a white perovskite LED by doping lead bromide with manganese. Project resulted in a journal publication.
- Synthesizing Nanoparticles to Make Them More Soluble in Human Body
 - Synthesized gold nanoparticles using various chemical techniques to make them more soluble in human cells. These particles can be used as a drug delivery mechanism or for tracking cancer cells.
- Computation Statistics and Data Analytics (CSDA) Lab, UWF
 - Contributed to the development of a chatbot for UWF to help students with academic advising, as well as answering questions related to university policies and resources.

Publications

- Zhou, C.; Tian, Y.; Khabou, O.; Worku, M.; Zhou, Y.; Lin, H.; Ma, B.; Manganese-Doped One-Dimensional Lead Bromide Perovskites with Bright White Emission, ACS Applied Materials and Interfaces, 2017, 9, 40446–40451.

Technical Skills

- Programming: C, R, Python, and SQL
- Machine Learning with Python: Linear Regression, Neural Networks, SVM, etc.

Honors and Other Significant Activities

- Outstanding Graduate Teaching Assistant Award, UWF, (2026)
- Outstanding Graduate Teaching Assistant Award, UWF Math and Statistics Dept, (2025)
- Health and Hope Clinic, Medical Assistant (Fall 2019 – Summer 2020)
- Medical Mission with Syrian American Medical Society (SAMS) (July 2019)
 - Traveled to Jordan and volunteered with healthcare professionals to provide free medical care to Syrian refugees in camps.
- Autism Pensacola, Volunteer (Fall 2019)
 - Organized and hosted events for kids on the autism spectrum.
- Charles A. Brautlecht and Louise I. Brautlecht Chemistry Scholarship, FSU (Spring 2018)
 - Scholarship awarded to top chemistry students with outstanding academic and research performance.