Dana Hughes

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Education

Florida State University | Tallahassee, FL *May 2022*
Bachelor of Science in Computational Biology

Tallahassee State College | Tallahassee, FL *May 2020*

Florida State University | Tallahassee, FL *May 2016*

Research Experience

Florida State University | Tallahassee, FL *July 2021 – May 2022*
Undergraduate Practicum: Data Analysis of Surfactant-Based Molecular Recognition
Lenhert Research Group | Dr. Steven Lenhert

- Analyzed lipid nanotechnology experiment datasets to extract meaningful insights.
- Investigated lipid-based nano- and micro-structures to contribute to the advancement of biomedical and technological innovations.

Florida State University | Tallahassee, FL *August 2020 – April 2022*
Research Assistant
College of Social Work | Dr. Michael Killian

- Organized and maintained machine learning and deep learning modeling results for pediatric organ transplant patients.
- Assisted in interpreting statistical data to help identify trends related to transplant rejection and patient health risks.
- Collaborated with interdisciplinary research teams to analyze and interpret model results across multiple fields.

Florida State University | Tallahassee, FL *January 2021 – April 2022*
Program Assistant
College of Social Work | Ellen Piekalkiewicz

- Assisted in grant writing and funding proposals for community-based research projects.
- Analyzed disaster impact data from primary sources in Florida's Big Bend to assess support for rural communities.
- Collected and organized data on Florida's K-12 child and youth programs.

Publications

Killian, M. O., Tian, S., Xing, A., **Hughes, D**., Gupta, D., Wang, X., & He, Z. (2023). Prediction of Outcomes After Heart Transplantation in Pediatric Patients Using National Registry Data: Evaluation of Machine Learning Approaches. *JMIR cardio*, *7*, e45352. https://doi.org/10.2196/45352

Recognitions

Dean's List
Tallahassee State College *May 2020*
Among the 1,300 students named to the Spring 2020 Dean's List at Tallahassee State College
TSC Dean's List 2020

Student Spotlight Article
FSU UROP Program Website *April 2021*
Featured in a student spotlight article highlighting background and research on predicting outcomes of pediatric organ transplant patients.
UROP Student Spotlight - Dana (Flumer) Hughes

Conferences

Hughes, D. (2021, April). *Combinatorial bio-inspired mixture as a novel medium for liquid/liquid extraction of small ions.* NanoFlorida International Conference, Gainesville, FL.

Hughes, D. (2021, April). *Psychosocial characteristics associated with post-transplant hospitalization in pediatric heart transplant patients.* Florida Undergraduate Research Conference, Tallahassee, FL.

Hughes, D. (2021, February). *Psychosocial characteristics associated with post-transplant hospitalization in pediatric heart transplant patients.* NanoFlorida International Conference, Tallahassee, FL.

Professional Experience

Florida State University | Tallahassee, FL *February 2024 – Present*
Business Analyst
- Design, develop, and maintain financial aid databases and reports for state, federal, and institutional surveys using software such as PS Query and Snowflake.
- Identify efficiencies, participate in testing, advise regulatory changes, and ensure compliance with state, federal, and institutional regulations.
- Collaborate across financial aid teams to identify efficiencies, test changes, and address regulatory needs while adapting to evolving compliance standards.

Department of Environmental Protection | Tallahassee, FL *March 2023 – September 2023*
Chemist
- Analyzed, interpreted, and reported data from TKN digestion and TDS/TSS analysis to evaluate water quality parameters and support environmental research initiatives.
- Ensured accuracy and reliability through strict adherence to QA/QC standards and precise data analysis.