Jon Steven Dal Williams

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SUMMARY

Enthusiastic and inquisitive data scientist with experience in organic synthesis, analytical methods, and project management. Passionate about problem solving, and comfortable communicating results across domains.

ACCOMPLISHMENTS

- Synthesized and characterized a series of organic semiconductors, published results in *RSC Advances, Journal of Materials Chemistry C.*
- Interned at an industrial instrumentation start-up, put statistical models into production and automated report pipelines.
- Hosted an academic conference at the University of Tennessee.
- Disseminated research findings at multiple national American Chemical Society (ACS) conferences.
- Vice President of the University of Tennessee, Knoxville student ACS chapter for two years. Increased membership from 5 students to 38.

EDUCATION

University of Mississippi
PhD, Chemistry — 2014-2019
Doctoral Thesis: Theranostics based on Linear-Dendritic Block Copolymers

University of Tennessee, Knoxville
B.S., Chemistry — 2009-2014
Minor in Business Administration. Graduated with American Chemical Society certification. Performed chemical informatic research on lipid metabolites.

EXPERIENCE

Research Assistant, University of Mississippi
University, MS — August 2014-Current
- Synthesized and characterized small organic molecules and polymers
- Established clear and concise standard operating procedures for complex experiments and instrumentation
- Recruited and taught younger students to be thoughtful, productive junior scientists
- Established collaborations, communicating findings across disciplines

Data Science Intern, Fluence Analytics
New Orleans, LA — June 2018-August 2018
- Performed sensor fusion with time-series and categorical data.
- Performed anomaly detection for predictive maintenance and performance optimization
- Developed prototypes and pilot-scale experiments along with relevant application notes
- Automated data visualization and report creation for clients

Teaching Assistant, University of Mississippi
University, MS — August 2014-May 2017
- Taught 46 college sophomores and juniors per semester
- Supervised teaching experiments in organic and general chemistry laboratories, maintaining a safe learning environment

ADDITIONAL SKILLS

- Python
- SQL
- Data mining and visualization
- Machine Learning
- Linux
- RESTful API creation, testing, and containerization