Argen West

EDUCATION

Doctor of Philosophy in Mathematics
University of Illinois, Urbana, IL, May 2018

Master's of Science in Applied Mathematics
University of Illinois, Urbana, IL, May 2013

Bachelor's of Science in Mathematics
University of Louisiana, Lafayette, LA, May 2011
Minor: Economics

PROFESSIONAL EXPERIENCE

Senior Data Scientist   June 2019 - Present
Ascend Innovations, Dayton, OH
- Analyzed data from the opioid crisis in the Greater Dayton area
- Researched different models and risk factors for substance abuse disorders used to analyze at risk populations

Data Scientist   June 2018 - June 2019
Ascend Innovations, Dayton, OH
- Created visuals and summarized findings into reports to convey trends in the opioid crisis
- Analyzed and developed reports of various hospital data to effectively convey findings and results to business team and clients

R&D Intern   May 2017 - May 2018
Dow AgroSciences, Champaign, IL
- Researched advanced modeling tools used to predict the onset of pesticide resistance
- Developed code to model herbicide resistance in weeds
- Co-authored a publication on herbicide resistance modeling

Student Researcher   May 2015 - August 2015, April 2016 - May 2017
John Deere Technology Innovation Center, Champaign, IL
- Analyzed crop information to better understand causes of yield variability
- Created visualizations for soil moisture data
- Evaluated equipment performance through the use of statistical and computational analyses
- Incorporate site characteristic data (soils, weather) to improve modeling efforts
- Created presentations and reports to convey findings

LEADERSHIP & TEAMWORK EXPERIENCE

Teaching Assistant   January 2012 - May 2018
Department of Mathematics, **University of Illinois**, Urbana, IL
- Led discussion sections for single variable and multivariable calculus
- Held office hours and weekly tutoring sessions

Graduate Mentor   August 2014 - December 2014
Illinois Geometry Lab, Urbana, IL
- Mentored undergraduate students on their research project
- Led weekly research group meetings

Mathematical Modeler   August 2014
Institute for Mathematics and its Applications
- Participated in University of Minnesota's Mathematical Modeling in Industry workshop
- Worked on a mathematical modeling project with other graduate students and a mentor from Siemens

TECHNICAL SKILLS
- Competency in Matlab, Python and R
- Some experience with SQL, ArcGIS and Tableau