

JOHN ORUONGO

EDUCATION

University of Wisconsin, Madison

PhD Industrial & Systems Engineering - Decision Sciences and Operations Research 2019

M.S. Industrial & Systems Engineering & M.S. Statistics

Willamette University – MBA

2007

Drury University

B.S. Business Administration & Computer Information Systems

2004

RESEARCH AND TEACHING INTERESTS

Risk modeling and management, healthcare decision making, statistical modeling, data mining, business analytics, healthcare analytics, optimization, simulation, management science and operations research.

PUBLICATIONS

- John Oruongo, Katie Ronk, Oguzhan Alagoz, Jonathan Jaffery and Maureen Smith - *Skilled nursing facility differences in readmission rates by the DRG category of the initial hospitalization* - Journal of the American Medical Directors Association (2020)
- Kyle L Grazier, Andrew R Quanbeck, John Oruongo, et. al- *What Influences Participation in Quality Improvement? A Randomized Trial of Addiction Treatment Organizations* Journal for Healthcare Quality (2014)

MANUSCRIPTS IN PROGRESS

- Oguzhan Alagoz, Sebastian Alvarez Avendano, John Oruongo and Gabriel Zayas-Caban *Optimizing Patient Transitions to Skilled Nursing Facilities* – Writing

TEACHING EXPERIENCE

J. Mack Robinson College of Business - Georgia State University

2019 - 2020

Visiting Assistant Professor

Atlanta, GA

- Taught graduated data mining course
- Taught graduate and undergraduate business modeling courses.
- Taught undergraduate introduction to business and technology course.

Department of Industrial and Systems Engineering - University of Wisconsin

2018

Guest Lecture

Madison, WI

- Guest lecture for the stochastic models in healthcare delivery systems course.

Department of Mathematics - Missouri State University

2008 - 2010

Math Instructor

Springfield, MO

- Taught introductory algebra courses and performed all duties pertaining to course instruction and management.
- Tutored undergraduate level mathematics through Calculus III.

PROFESSIONAL EXPERIENCE

Department of Health Services - State of Wisconsin

Research Analyst

Madison, WI

- Researched the impact of interacting with Aging and Disabilities Resource Centers on entry into publicly funded long-term care.

Department of Human Services - State of Oregon

Internal Auditor

Salem, OR

- Evaluated reports submitted to the federal government on State expenditure matched against federal welfare and checked expenditure entry samples to ascertain these were allowable per federal rules, regulations and stipulations.
- Reviewed spread of overtime use over the Department and compiled reasons for overtime.
- Analyzed probable correlation between need for overtime and staff retention and/or turnover.
- Assessed staffing data to determine cost-benefit analysis of contracting nursing services for the Oregon State Hospital.
- Recommended cost reduction techniques coupled with operational changes to stay within budget to upper management.

Department of Administrative Services - State of Oregon

Fiscal Analyst Intern

Salem, OR

- Constructed a debt management tool that aided in debt consolidation and analysis for various State issued bonds, and used to account for an average of about \$36 million biennial debt obligations for the facilities division.
- Constructed a capital budget projection and forecasting tool to calculate biennial budget amounts required to fund the State of Oregon's capital construction and improvement projects.
- Researched and identified real estate owned by the State of Oregon as described in land deeds and historical legal property descriptions. Generated a report on state ownership of historical houses, and identified missing legal deeds of state owned land.

TECHNICAL STRENGTHS

Computer Skills

R, SAS, SQL, Stata, Python

Software

MS Office, GAMS, Gurobi, MATLAB