

# JOSHUA RIO-ROSS

## DATA ANALYST | MATHEMATICIAN

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### ABOUT ME

I am a Mathematics Professor and Data Analyst who loves drawing meaning out of vast amounts of information and who appreciates the beauty of communicating that meaning clearly. I am an enthusiastic and determined problem solver who is always excited to apply new technological skills to find solutions.

### SKILLS

- R
- Python
- SQL
- Tableau
- Power BI
- Excel
- SPSS
- Git/GitHub

### EDUCATION & CREDENTIALS

NASHVILLE SOFTWARE SCHOOL  
Data Analytics Bootcamp  
Expected Graduation: June 2021

YALE UNIVERSITY  
M.A.R. Philosophical Theology, 2015

UNIVERSITY OF MISSOURI  
M.A. Mathematics, 2013

ORAL ROBERTS UNIVERSITY  
B.S. Mathematics, 2011  
B.A. English Literature, 2011

### PROFESSIONAL PRESENTATIONS

- Prematriculation Basic Sciences Self-Assessment and Early PA Program Academic Success" for The National Conference for PA Educators, 2019

### PROFESSIONAL EXPERIENCE

#### DATA ANALYTICS APPRENTICESHIP

Nashville Software School, Jan 2021-Present

- Four-month, intensive introduction to data analytics and business intelligence processes and tools. Learning includes communicating findings through presentations, storytelling, building reports/ creating dashboards. Tools Learned: Excel, Python, SQL, Tableau, and Power BI

### PROJECTS

- Excel – Low Income & Elderly Assistance Project. Created an interactive dashboard to present states that need assistance for low-income, elderly taxpayers. Techniques used: VLOOKUP, INDEX-MATCH, OFFSET, data validation, data visualization, dashboard. [GitHub – Low Income & Elderly Assistance](#)
- SQL – Lahman Baseball Project. Applied a Variety of SQL skills to a database with 27 data tables to answer questions about baseball history. Techniques used: Joins, subqueries, CTEs, WHERE, HAVING, CASE WHEN, aggregation functions, window functions.
- Power BI – MLB Pitchers Dashboard. Created an interactive dashboard to investigate the correlation between strikeouts, wins, and salaries since 1962. [Public Link](#)
- Tableau – NBA Player Data. Created a storyboard to explore the relationship between player points per game and plus/minus. [Public Link](#)

#### ASSISTANT PROFESSOR AND DIRECTOR OF DEVELOPMENTAL MATHEMATICS

Trevecca Nazarene University, Aug 2017-Present

- Taught: Statistical Analysis for the Sciences, Problem Solving, College Algebra, Intermediate Algebra
- Redesigned developmental mathematics curriculum by communicating with faculty about prerequisite mathematical knowledge, selecting/creating new content for courses, and developing measurable criteria for the program's success.
- Tracked later progress of students who had taken developmental mathematics to ensure that my curriculum changes resulted in higher rates of general education success in comparison to five years of student data prior to my arrival.

#### VISITING INSTRUCTOR OF MATHEMATICS

Lee University, Aug 2016-May 2017

- Taught: Introduction to Statistics, Contemporary Mathematics, College Algebra for Education Majors, Trigonometry

#### TRANSPORTATION MONITOR

Tennessee Department of Transportation, Nov 2015-June 2016

- Developed formulae for the allocation of agencies' federal grant funds
- Facilitated the construction and execution of agency grant contracts
- Maintained Excel reconciliation documents to monitor agencies' progress on expending grant contract funds
- Processed invoices, ensured compliant documentation, and identified and interpreted invoice variances
- Clearly communicated to agencies the legal and accounting procedures for remedying invoice variances

#### ADJUNCT INSTRUCTOR OF MATHEMATICS

Southern Connecticut State University, Aug 2013-May 2015

- Taught: Beginning Algebra, Intermediate Algebra, College Algebra for Life and Social Sciences

#### TEACHING ASSISTANT

University of Missouri, August 2011-May 2013

- Taught: Business Calculus and College Algebra