

Mark Roepke

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PROFESSIONAL EXPERIENCE

December 2017 – Present

84.51°

Cincinnati, OH

Senior Data Scientist

- Designing and implementing a personalized recommendation system for digital platforms
- Co-planning and co-delivering intermediate R and introductory Python data science workshops to data scientists
- Created, automated, and communicated a suite of customer-level supervised machine learning models using Apache Spark and Python
- Constructed and developed an opinionated and consistent R package ecosystem for company-wide use to assist data scientists with I/O, branded data visualization and communication, and automation with a team of data scientists

July 2017 – December 2017

84.51°

Cincinnati, OH

Data Scientist

- Created, automated, and communicated a suite of customer-level supervised machine learning models using Oracle PL/SQL, R, and DataRobot
- Designed and delivered introductory R and Tidyverse workshops to 100+ data scientists
- Authored an internal company R package for use by 100+ data scientists with another data scientist
- Evaluated data science platforms like Domino and IBM Data Science Experience for company use as a team

June 2016 – July 2017

84.51°

Cincinnati, OH

Data Analyst

- Inherited and maintained analytical methodology for a customer-level segmentation in SAS
- Actualized a comprehensive customer-level continuous customer preference measure using XGBoost in R
- Created, evaluated, and expanded company-branded ggplot2 theme and color palettes

May 2015 – August 2015

U.S. Bancorp

Cincinnati, OH

Quantitative Financial Analyst (Intern)

- Conducted econometric time series analyses in R for financial stress testing purposes
- Identified determinants of demand and effects of policy changes for various financial products
- Developed financial statement report automation macros in VBA for branch offices

September 2014 – March 2014

Beech Acres Parenting Center

Cincinnati, OH

Fundraising Data Analyst (Intern)

- Selected for volunteer project utilizing fundraising analytics for non-profit organization
- Analyzed over ten years of donation data in Stata to identify effective fundraising techniques via logistic regression

PERSONAL PROJECTS AND OPEN-SOURCE CONTRIBUTIONS

flxr - github.com/markroepke/flxr

- Designed, authored, and communicated an R package to scrape basic IMDB movie data

Personal Website - [markroepke.me](https://www.markroepke.me)

- Built and currently maintaining a personal website in Jekyll to share my data science projects and portfolio

Butler County Donut Trail app - markroepke.shinyapps.io/butler_county_donut_trail

- Developed a web app to explore the Butler County Donut Trail using Shiny and leaflet R packages

skimr - github.com/ropensci/skimr

- Contributed whitespace calculation to the data exploration R package on CRAN (PR #380)

cattonum - github.com/bfgray3/cattonum

- Contributed median encoding to the feature-encoding R package on CRAN (PR #10)

EDUCATION

2018 – Present

Johns Hopkins University

Baltimore, MD

Master of Science in Computer Science

Concentration: Database Systems and Knowledge Management (GPA: 4.0)

Relevant Coursework: Introduction to Programming Using Java, Data Structures, Computer Organization

Future Coursework: Foundations of Algorithms, Foundations of Architecture,
Foundations of Software Engineering, Neural Networks, Natural Language Processing,
Artificial Intelligence, Advanced Machine Learning

2012 – 2016

Xavier University

Cincinnati, OH

Bachelor of Arts

Major: Economics; *Concentration:* Mathematics (GPA: 3.628; Quantitative GPA: 3.86)

Minors: Statistics & Business

Relevant Projects:

- Utilized causal impact modeling to estimate economic impact of minor professional ice hockey
- Built gravity-influenced migration model to test the political dissimilarity hypothesis among refugees

Campus Involvement:

- President of the Xavier University Economics Association (2014-2016)
 - Xavier University Alternative Breaks (2013-2015)
 - New Student Manresa Orientation Group Leader (2013-2014)
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AWARDS, SERVICE & CONFERENCES

- Extraordinary Contribution Award - The Kroger Company
 - Individually selected from 400,000+ employees for quarterly stock award for pushing and enabling the organization's data science team to improve and embrace new technologies
 - 2017 RStudio::conf Conference Attendee and Tidyverse Train-the-trainer Workshop Completion
 - 2018 RStudio::conf Conference Attendee and Advanced RMarkdown Workshop Completion
 - Board Member - Xavier University Economics Department Board of Executive Advisors
 - Selected to department's advisory board to assist undergraduate students with data-related projects
 - Craig Menderson Memorial Award - Xavier University Economics Departments
 - Awarded to a senior economics major demonstrating excellence in the classroom and outstanding leadership potential
 - Xavier University Mortar Board
 - One of eighteen students recognized for achievement in scholarship, leadership and service
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RELEVANT SKILLS

- *Data Science:*
 - Machine learning, recommender systems, EDA, workflow and automation
 - *Technologies:*
 - Excellent with R, Python, SQL
 - Proficient with Unix, PySpark, Java, Oracle PL/SQL
 - Experience with Scala, SAS, Stata
 - *Teaching:*
 - Certified to teach the Tidyverse to beginner and experienced R users by RStudio
 - Experience designing and delivering introductory R and Python courses and intermediate R courses
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REFERENCES

Available upon request