

Michael Lee

Data Visualization Developer

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SUMMARY OF QUALIFICATIONS

6+ years applying open source libraries to analyze data and build products that drive knowledge acquisition and decision making. Whether working independently or collaboratively, I'm able to contribute meaningful work through strong communication skills, critical evaluation of challenging data problems, and the attention to diverse audiences across my professional career.

PROFESSIONAL EXPERIENCE

RESEARCHER (April 2019 - Present)

RESEARCH ASSOCIATE

American Institutes for Research (July 2015 - March 2019)

- Co-authored the [EdSurvey](#) and [NAEPprimer](#) packages for the analysis of survey data using NCES statistical methods, including the programming of R functions, documentation, and workshop content
- Directed the production on an interactive shiny application that visualizes NAEP mathematics and reading results from 1990 to 2019, including delegation of tasks and code reviews
- Collaborated with designers to automate the production of reports for over 10 unique internal and external clients, each featuring a custom-designed LaTeX template embedded with unique ggplot2 visualizations illustrating data trends
- Wrote R scripts to review data sets in longitudinal surveys to meet compliance standards
- Programmed interactive visualizations for the NCES website in D3.js for survey releases and visual journalism articles
- Developed and publicized over 15 unique animations for social media distribution at twitter.com/EdNCES

FREELANCE/INDEPENDENT CONTRACTOR

The Ballengee Group (November 2014 - February 2015)

- Web-scraped a database of minor league baseball performance and salary data exclusively using R software
- Researched salary expectations for over 80 major and minor league baseball players across a 10 year period

www.mikelee.co (November 2014 - Present)

- Online portfolio of data visualizations and independent analyses; implemented with Bulma and hosted on GitHub

SPECIAL EDUCATION TEACHER

Milwaukee Public Schools (Aug 2011 - June 2013)

- Utilized performance data to develop lesson plans, activities, and interventions appropriate for students with diverse learning needs and disabilities
- Collaborated with staff to create Individualized Education Programs for students with significant behavioral challenges

EDUCATION

**MASTERS OF ARTS,
URBAN EDUCATION**

2013

Cardinal Stritch University,
Milwaukee, WI

**BACHELOR OF SCIENCE,
PSYCHOLOGY**

2011

University of Wisconsin-
Madison, Madison, WI

SPECIALTIES

Data Analysis & Processing
Data Visualization
Web Development
Web Scraping
R Package Development
Technical Writing
Workshop Moderation

SKILLS

Data Toolbox

R // Python // SQL //
Shiny // Excel // LaTeX

Web Development

HTML5 // D3.js // CSS //
Hugo // Git //
Jekyll // Bootstrap

Teaching

Lesson Planning //
Workshops //
Differentiated Instruction