

ABHIK ROY



EDUCATION

- 2016 • Western Michigan University
Ph.D. in Program Evaluation
Kalamazoo, MI
- 2007 • Michigan Technological University
M.S. in Mathematics
Houghton, MI
- 2001 • West Virginia Wesleyan College
B.S. in Mathematics
Buckhannon, WV



PROFESSIONAL EXPERIENCE

- Current | 2016 • *Assistant Professor*
West Virginia University
Morgantown, WV
 - Advising masters and doctoral level students.
 - Authoring and submitting papers to peer reviewed publications.
 - Pulling data from multiple remote sources, constructing static, active, and interactive visualizations for production and/or embedding within reports, and building Shiny apps and APIs within the R/RStudio environment.
 - Developing enhanced and interactive surveys in Qualtrics using HTML, CSS, & Javascript.
 - Evaluating various programs, projects, and grants.
 - Teaching evaluation and methods based classes with a focus on data science.
- 2016 | 2014 • *Data Analyst*
University of Kansas
Lawrence, KS
 - Created web apps in Shiny and Tableau to pull, summarize, and visualize data from the organization's Oracle database.
 - Prepared evaluation reports for various stakeholders.
 - Researched and implemented predictive statistical models for student retention and graduation efforts.
 - Led and presented findings from small and large scale qualitative, quantitative, and mixed-methods studies.



WWW

CONTACT INFORMATION

- @ abhikrroy@protonmail.com
- github.com/drabhikroy
- iam.adasocialscientist.com
- +1 304-554-9436
- ID 0000-0002-7085-8964

EXPERTISE

Data visualization

Content, cluster, and social network analysis

Modeling using statistics and machine learning

Text mining

Planning and conducting program evaluations

Designing and administering small- and large-scale surveys

Programming and analysis in R with markup using *L^AT_EX*

App development and dynamic reporting using




SELECT PROJECTS

2017

Data Scientist & Program Evaluator

WVCTSI: West Virginia Clinical and Translational Science Institute

West Virginia University

 Morgantown, WV

- Analyzing large data sets using frequentist and Bayesian methods.
- Conducting local and multi-site multi-cluster evaluation studies.
- Developing/validating items and distributing customized Qualtrics surveys built with CSS and Javascript.
- Pulling, wrangling, and visualizing secondary data in R.
- Mentoring future graduate social data scientists.
- Total Amount: \$20,000,000
- Website: [PERC](#)

2020

Program Evaluator

Research Initiative: A Holistic Cross-Disciplinary Project Experience as a Platform to Advance the Professional Formation of Engineers

West Virginia University

 Morgantown, WV

- Advising engineering faculty and graduate students on implementation of study methods.
- Conducting quantitative and qualitative studies on undergraduate student experiences within grant related programs.
- Total Amount: \$200,000

2020

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2017

Program Evaluator

GAUSSI: Generating, Analyzing, and Understanding Sensory and Sequencing Information: A Trans-Disciplinary Graduate Training Program in Biosensing and Computational Biology

Colorado State University

 Fort Collins, CO

- Conducting biannual evaluations of multiple grant related programs.
- Developing and distributing customized Qualtrics surveys built with CSS and Javascript.
- Pulling, wrangling, and visualizing secondary data in R.
- Writing annual program and National Science Foundation reports.
- Total Amount: \$3,013,779

2018

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2017

Program Evaluator

Cultivating Inclusive Identities of Engineers and Computer Scientists: Expanding Efforts to Infuse Inclusive Excellence in Undergraduate Curricula

West Virginia University

 Morgantown, WV

- Conducting formative evaluations of multiple grant related programs.
- Developing and distributing customized Qualtrics surveys built with CSS and Javascript.
- Pulling, wrangling, and visualizing secondary data in R.
- Writing annual program and National Science Foundation reports.
- Total Amount: \$2,000,000

SELECT TALKS

2022

Best of Both Worlds: Affordances of Mixing Machine Learning and Qualitative Content Analysis

American Educational Research Association Annual Meeting

 San Diego, CA

2020

These Aren't Random Words Just Strung Together?: Using Machine Learning and Pretty Visualizations to Discover Topics in Articles.

American Evaluation Association Annual Conference

 virtual

2019



Why Is It That Writers Write but Fingers Don't Fing? Using Machine Learning and Lexemes to Make Sense of Nonsense.
American Evaluation Association Annual Conference



Minneapolis, MN

Made in  Source code

Last updated on December 22, 2022