

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 students.
 - Evaluating various projects and grants.
 - Submitting papers for peer review publications.
 - Teaching evaluation and methods based classes with a focus on data science.
 - Survey development in Qualtrics with HTML, CSS, & Javascript.
 - Building and pulling data from multiple APIs, creating visualizations, creating static and interactive reports, and building apps within the R/RStudio environment.
- 2016 | 2014 • *Data Analyst*
University of Kansas
Lawrence, KS
- Created web apps in Shiny and Tableau to pull and visualize data from the organization's Oracle database.
 - Prepared evaluation reports for various stakeholders.
 - Led and presented findings from small and large scale qualitative, quantitative, and mixed-methods studies.
 - Researched and implemented predictive statistical models for student retention and graduation efforts.



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](#)



WWW

CONTACT INFORMATION

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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  with markup using *L^AT_EX*

App development and dynamic reporting using



- 2020

● *Program Evaluator*

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

West Virginia University

 - 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

 Morgantown, WV

- 2020
|
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

 - 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

 Fort Collins, CO

- 2018
|
2017

● *Program Evaluator*

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

West Virginia University

 - 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


 Morgantown, WV

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