

DR. 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
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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
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2014 • *Data Analyst*
University of Kansas • Lawrence, KS
- Created scripts to pull 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.



SELECTED PROJECTS

- 2017 • *Data Scientist*
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 R 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 📍 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 | 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 | 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

SELECTED 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