

# 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 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<sup>A</sup>T<sub>E</sub>X***

**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  
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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

## 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