






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

- 2023
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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
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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.






SELECT PROJECTS

- Current
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2023 • *Lead Program Evaluator & Methodologist*
Healthy Start Initiative: Eliminating Disparities in Perinatal Health
West Virginia University Research Corporation  Morgantown, WV
 - Building valid and reliable survey instruments to assess participant experiences.
 - Implementing process, monitoring, and impact evaluations of programmatic activities.
 - Utilizing mixed methods designs to study participant data.
 - Total Award: \$4,870,000
 - [HRSA-19-049](#)



WWW 

CONTACT INFORMATION

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EXPERTISE

Content, cluster, and social network analysis

Data visualization

Modeling and analysis using statistics and machine learning

Planning and conducting program evaluations

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

Quantitative, qualitative, and mixed method designs and analyses

Small- and large-scale survey design, implementation, and analyses

Web app development and static/dynamic reporting using



Current 2022	<ul style="list-style-type: none"> Lead Program Evaluator & Mixed Methods Analyst Teaching Science with Computational Thinking: Preparing Preservice Elementary Educators of the Future STEM Workforce West Virginia University 📍 Morgantown, WV <ul style="list-style-type: none"> Applying mixed methods text analysis of written and interview data using thematic analysis and various machine learning methods. Constructing and validating survey instruments used to assess progress and programmatic impact. Implementing process and impact evaluations of program activities. Total Award: \$294,958.00 2019-NSF 2142274
2022 2017	<ul style="list-style-type: none"> Program Evaluator & Data Scientist WVCTSI: West Virginia Clinical and Translational Science Institute West Virginia University 📍 Morgantown, WV <ul style="list-style-type: none"> Analyzed large data sets using frequentist and Bayesian methods. Conducted local and multi-site multi-cluster evaluation studies. Developed/validated items and distributing customized Qualtrics surveys built with CSS and Javascript. Mentored future graduate social data scientists. Pulled, wrangled, and visualized secondary data in R. Total Award: \$20,000,000 2017-NIH 2U54GM104942-02
2020 2017	<ul style="list-style-type: none"> Lead 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 <ul style="list-style-type: none"> Conducted process evaluations of multiple grant related programs. Developed and distributed customized Qualtrics surveys built with CSS and Javascript. Directed unstructured and semi-structured interviews and focus groups assessing participant experiences. Implemented mixed methods evaluations to study program impacts on students and faculty. Pulled, wrangled, and visualized secondary data. Total Award: \$3,013,779 2017-NSF 1450032



SELECT TALKS

2022	<ul style="list-style-type: none"> Best of Both Worlds: Affordances of Mixing Machine Learning and Qualitative Content Analysis <i>American Educational Research Association Annual Meeting</i> 📍 San Diego, CA
2020	<ul style="list-style-type: none"> These Aren't Random Words Just Strung Together?: Using Machine Learning and Pretty Visualizations to Discover Topics in Articles. <i>American Evaluation Association Annual Conference</i> 📍 virtual
2019	<ul style="list-style-type: none"> Why Is It That Writers Write but Fingers Don't Fing? Using Machine Learning and Lexemes to Make Sense of Nonsense. <i>American Evaluation Association Annual Conference</i> 📍 Minneapolis, MN