





ABHIK ROY

EDUCATION


- Western Michigan University
Ph.D. in Program Evaluation  Kalamazoo, MI
- Michigan Technological University
M.S. in Mathematics  Houghton, MI
- 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
 - Contributed to peer-reviewed publications by authoring and submitting scholarly papers.
 - Conducted rigorous evaluations of a variety of programs, projects, and grants, contributing to their optimization and effectiveness.
 - Designed and implemented dynamic and interactive surveys using HTML, CSS, and JavaScript in the Qualtrics platform.
 - Extracted, wrangled, and cleaned data from various remote sources; developed a range of static, active, and interactive visualizations for public reporting and/or dissemination to clients, and built web apps in Shiny.
 - Instructed classes in evaluation, measurement, research methods, and survey design with an emphasis on the application of data science techniques.
 - Mentored Masters and Doctoral students, guiding their academic pursuits and research activities.




2016
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2014

- *Data Analyst*
University of Kansas  Lawrence, KS
 - Authored detailed evaluation reports, catering to the requirements of diverse stakeholders.
 - Conducted research and deployed predictive statistical models aimed at enhancing student retention and graduation efforts.
 - Developed web applications using Shiny and Tableau, facilitating extraction, summarization, and visualization of data from the organization's Oracle database.
 - Spearheaded and delivered presentations on findings from comprehensive qualitative, quantitative, and mixed-methods studies, both large and small.



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



SELECT EVALUATION WORK

Current 2023	<ul style="list-style-type: none">● Lead Program Evaluator & Methodologist Healthy Start Initiative West Virginia University Research Corporation	<ul style="list-style-type: none">• Building valid and reliable survey instruments to assess participant experiences.• Implementing process, monitoring, and impact evaluations of programmatic activities.	<ul style="list-style-type: none">• Utilizing mixed methods designs to study participant data.• Total Award: \$5,470,000• HRSA-19-049	 Morgantown, WV
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	<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.	<ul style="list-style-type: none">• Implementing process and impact evaluations of program activities.• Total Award: \$294,958.00• 2019-NSF 2142274	 Morgantown, WV
2022 2017	<ul style="list-style-type: none">● Program Evaluator & Data Scientist WVCTSI: West Virginia Clinical and Translational Science Institute West Virginia University	<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.	<ul style="list-style-type: none">• Mentored future graduate social data scientists.• Pulled, wrangled, and visualized secondary data in R.• Total Award: \$20,000,000• 2017-NIH 2U54GM104942-02	 Morgantown, WV
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	<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.	<ul style="list-style-type: none">• 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	 Fort Collins, CO

SELECT PRESENTATIONS AND 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

Made in  Source code

Last updated on August 13, 2023