

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

Current
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2024

- Associate Research Scientist*
Indiana University
Bloomington, IN
 - Applying Advanced Research Techniques.** Utilizing both quantitative and qualitative research methodologies to design studies that accurately address complex social, behavioral, and policy questions.
 - Conducting Comprehensive Data Analysis.** Employing statistical software and qualitative analysis tools to extract, process, and interpret data, leading to evidence-based conclusions and recommendations.
 - Crafting and Delivering Impactful Presentations.** Developing presentations and reports that clearly articulate research findings, methodologies, and implications to both academic and non-academic audiences.
 - Driving Stakeholder Engagement.** Actively engaging with partners and clients to understand their needs, ensuring research findings are directly applicable to policy and program decisions.
 - Guiding Projects to Successful Completion.** Strategically managing the execution of research projects, ensuring they remain on schedule, within budget, and achieve intended outcomes.
 - Initiating and Managing Research Proposals.** Spearheading the creation of detailed research proposals, including objectives, methodology, budget, and timelines, to secure funding and support.
 - Liaising with Diverse Stakeholders.** Building and maintaining strong relationships with project partners, funders, and community stakeholders to ensure research activities are aligned with broader goals and expectations.
 - Mentoring and Developing Team Talent.** Providing leadership and guidance to research staff, fostering professional growth and ensuring the team's skills are effectively utilized in project tasks.
 - Promoting Collaborative Innovation.** Leading initiatives that encourage team members to contribute unique insights and solutions, enhancing the overall quality and impact of research projects.
 - Translating Research into Actionable Strategies.** Analyzing data to produce insights that inform the development, implementation, and refinement of policies and programs.

CONTACT INFORMATION

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EXPERTISE

Data visualization

Markup using \LaTeX

Program evaluations integrating both traditional and machine learning methods

Quantitative, qualitative, and mixed method studies

R programming

Social network analysis

Survey design, administration, and research

Statistical modeling and analysis

Text analytics

Web application development and static/dynamic reporting using



2023
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2016

● *Assistant Professor*
West Virginia University

📍 Morgantown, WV

- **Authored Publications.** Contributed to various fields including program evaluation through authoring and co-authoring over 10 peer-reviewed publications.
- **Conducted Rigorous Evaluations.** Led more than 20 evaluations that resulted in increases in program effectiveness and capacity building.
- **Designed and Deployed Interactive Surveys.** Utilized HTML, CSS, and JavaScript on the Qualtrics platform to create multiple surveys, garnering approximately 7,000 responses.
- **Extracted and Cleaned Data for Visualization.** Pulled data from various remote sources; cleaned and wrangled it, then developed and published over 20 interactive visualizations for public reporting and client dissemination using RMarkdown and Shiny.
- **Mentored Students.** Guided 4 Masters and Doctoral students to the successful completion of their academic research projects.
- **Taught Methods Based Courses.** Instructed over 500 students in evaluation, measurement, research methods, and survey design, emphasizing data science techniques.

2016
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2014

● *Data Analyst*
University of Kansas

📍 Lawrence, KS

- **Conducted Comprehensive Studies.** Utilized qualitative, quantitative, and mixed-methods approaches, presenting findings to senior management to influence policy changes.
- **Crafted Tailored Evaluations.** Met the needs of diverse stakeholders, resulting in actionable insights for multiple non-academic departments.
- **Designed and Administered Surveys.** Reached over 300 university students and staff, achieving response rates ranging from 47% to 91%.
- **Engineered Web Applications.** Utilized R and Tableau to streamline the processes of data extraction and visualization.
- **Spearheaded Research Initiatives.** Increased student retention rates for specific at-risk groups by 3% to 5% through predictive statistical modeling.

▲ SELECT EVALUATION WORK

Current
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2023

● *Lead Program Evaluator & Methodologist - Healthy Start Initiative (HRSA-19-049 Total Award: \$5,470,000)*
West Virginia University Research Corporation

📍 Morgantown, WV

- Conducted process, monitoring, and impact evaluations at the program level.
- Designed and validated survey tools, evaluating the experiences of more than 50 participants.
- Generated two comprehensive internal evaluation documents and prepared an evaluation proposal aimed at federal funding renewal.
- Implemented a mixed-methods study of longitudinal and cross-sectional data on smoking cessation in mothers and caretaker experiences.

Current
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2022

● *Program Evaluator & Mixed Methods Analyst - Teaching Science with Computational Thinking: Preparing Preservice Elementary Educators of the Future STEM Workforce (2019-NSF 2142274 Total Award: \$294,958.00)*
West Virginia University

📍 Morgantown, WV

- Administered process evaluations for all program activities.
- Conducted a longitudinal mixed-method study, analyzing over 50 surveys and six interviews using thematic analysis and machine learning.
- Designed and validated two survey tools for assessing progress and evaluating programmatic impact.
- Produced one in-depth internal evaluation document and crafted evaluation summaries for federal reporting purposes.

2022
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2017

● *Community Program Evaluator & Data Scientist*
WVCTSI: West Virginia Clinical and Translational Science Institute (2017-NIH 2U54GM104942-02 Total Award: \$20,000,000)
West Virginia University

📍 Morgantown, WV

- Created over 100 data visualizations and developed four Shiny applications for comprehensive data exploration and research collaboration.
- Developed and disseminated tailored Qualtrics surveys, enhanced with HTML, CSS, and JavaScript, reaching over 5,000 individuals.
- Directed local and multi-site evaluation studies, influencing five core medical research and community engagement units.
- Mentored multiple graduate students in social data science, leading them through successful research projects.
- Produced quarterly and annual evaluations, disseminating findings in both print and interactive formats via Rmarkdown.
- Utilized frequentist and Bayesian methods to analyze datasets, guiding the direction of eight programs.