





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

Program evaluations integrating both traditional and machine learning methods

Quantitative, qualitative, and mixed method studies

 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.