

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

2025
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2024

- Associate Research Scientist
Indiana University
Bloomington, IN
 - Applied Advanced Research Methods.** Utilized statistical, machine learning, and qualitative analysis tools to interpret data, generated insights that advanced knowledge and informed evaluation outcomes.
 - Communicated Results.** Developed and presented findings, methodologies, and implications to stakeholders and other interdisciplinary groups.
 - Conducted Data Analysis.** Applied statistical, machine learning, and qualitative analysis tools to interpret data, generated findings that advanced knowledge and supported evaluation outcomes.
 - Created Accessible Data Visualizations.** Designed accessible visualizations with thoughtful consideration of diverse abilities, including colorblindness, to effectively communicate research findings to diverse groups.
 - Developing Competitive Research Proposals.** Authored grant proposals by establishing research objectives, designing methodologies, and outlining timelines to secure external funding.
 - Engaged in Stakeholder Collaboration.** Partnered with external collaborators using a participatory approach to align research findings with practical applications and guided policy development.
 - Led Research and Evaluation Projects.** Directed research and evaluation projects, met project goals, managed budgets, and adhered to timelines.

CONTACT INFORMATION

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EXPERTISE

Data visualization

Markup using *L^AT_EX*

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 Peer-Reviewed Publications.** Published over 10 articles in high-impact journals, advanced knowledge in program evaluation, research methodologies, and applied social sciences.
- **Developed Automated Systems for Data Collection and Analysis.** Established automated systems for data collection, cleaning, and analysis, improved efficiency and accuracy across multiple research projects.
- **Designed and Administered Surveys.** Created and deployed interactive web-based surveys using HTML, CSS, and JavaScript on the Qualtrics platform, generating over 7,000 responses for various projects and studies.
- **Extracted, Analyzed, and Visualized Data.** Processed and visualized data from internal research and remote sources, produced over 20 interactive visualizations using RMarkdown and Shiny for dissemination to stakeholder and other interdisciplinary groups.
- **Led and Participated in Evaluations.** Contributed to 12 program evaluations and served as lead evaluator on several federally funded grants.
- **Mentored Graduate Students.** Advised three Master's students and one PhD student, guided them through successful degree completion, and supported their professional growth.
- **Presented at National Conferences.** Shared research findings at over 20 conferences, with the majority at national-level events, reaching diverse groups.
- **Taught Research and Methods-Based Courses.** Instructed over 500 students in evaluation, research methods, measurement, and survey design, emphasized practical and analytical skills in data science.

2016
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2014

● Data Analyst
University of Kansas

📍 Lawrence, KS

- **Analyzed the Impact of Student Services.** Conducted qualitative and quantitative analysis to assess the effect of advising and engagement initiatives on student retention and graduation outcomes.
- **Built Web Applications and Dashboards.** Automated data extraction and visualization using R and Tableau, improving access and reporting for student-level data from the university's Oracle server.
- **Conducted Research to Improve Retention.** Developed statistical models that identified gaps in student retention strategies, contributing to a 3% to 5% increase in retention rates for at-risk groups.
- **Designed and Executed Questionnaires.** Created and implemented surveys for approximately 300 students and staff, achieving response rates between 47% and 91% across various projects.
- **Developed an Evaluation Model for Advising.** Constructed a comprehensive evaluation model by integrating a Delphi study, mixed-methods research, and survival analysis of student retention data.
- **Led Tailored Evaluations.** Conducted needs assessments and led participatory evaluations for non-academic units, focusing on data-driven insights and stakeholder empowerment.

▲ 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.
- Conducted a comparative mixed-methods study examining the experiences of mothers participating in two distinct smoking cessation programs.

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 reporting.
- Developed and disseminated tailored Qualtrics surveys, incorporating HTML, CSS, and JavaScript, reaching over 5,000 individuals.
- Directed local and multi-site evaluation studies for 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.
- Published and presented research on WVCTSI programs in academic journals and at conferences.