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 $\LaTeX$

Program evaluations from planning to reporting

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

Assistant Professor
West Virginia University

📍 Morgantown, WV

2023 | 2016

- **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.

Data Analyst
University of Kansas

📍 Lawrence, KS

2016 | 2014

- **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

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

📍 Morgantown, WV

Current | 2023

- 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.

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

Current | 2022

- 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.

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

2022 | 2017

- 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.