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
|
2024

Associate Research Scientist
Indiana University
📍 Bloomington, IN

- **Applying Advanced Research Methods**. Conducting quantitative, qualitative, and mixed-methods studies to address complex academic and policy-related questions.
- **Conducting Data Analysis**. Applying statistical, machine learning, and qualitative analysis tools to interpret data, generating insights that advance knowledge and inform evaluation outcomes.
- **Creating Accessible Data Visualizations**. Designing clear visualizations with careful consideration of diverse abilities, including different forms of color blindness, to effectively communicate research findings to a wide range of audiences.
- **Developing Competitive Research Proposals**. Leading the creation of grant proposals by defining research objectives, methodologies, and timelines to secure external funding.
- **Engaging in Stakeholder Collaboration**. Partnering with external collaborators through a participatory approach to connect research findings with practical applications and inform policy development.
- **Leading Research and Evaluation Projects**. Directing research and evaluation projects, meeting project goals, budgets, and timelines.
- **Presenting Findings**. Developing and delivering presentations of findings, methodologies, and implications to academic and interdisciplinary audiences.

CONTACT INFORMATION

@ abhikrroy@protonmail.com
 github.com/drabhikroy
 abhikroyphd.com
 +1 812-727-7774
iD 0000-0002-7085-8964

EXPERTISE

Data visualization

Markup using $\LaTeX$

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
|
2016

Assistant Professor
West Virginia University

📍 Morgantown, WV

- **Authored Peer-Reviewed Publications**. Published over 10 articles in high-impact journals, contributing to advancements in program evaluation, research methodologies, and applied social science.
- **Developed Automated Systems for Data Collection and Analysis**. Established automated systems to streamline data collection, cleaning, and analysis processes, improving efficiency and accuracy across multiple research projects.
- **Designed and Launched Innovative Surveys**. Created and implemented interactive, web-based surveys using HTML, CSS, and JavaScript on the Qualtrics platform, generating over 7,000 responses across multiple projects and studies.
- **Directed and Participated in Evaluations**. Contributed to 12 program evaluations, including serving as the lead evaluator on multiple federally funded grants.

- **Extracted, Analyzed, and Visualized Data**. Processed and visualized data from internal research and remote sources, creating over 20 interactive visualizations using RMarkdown and Shiny for academic and stakeholder dissemination.
- **Mentored Graduate Students**. Guided three Master's students and one PhD student through the successful completion of their research projects, advancing their professional development.
- **Presented at National Academic Conferences**. Delivered presentations at over 20 academic conferences, with a majority being national-level events, sharing research findings with a broad academic audience.
- **Taught Research and Methods-Based Courses**. Instructed over 500 students in evaluation, research methods, measurement, and survey design, focusing on practical, analytical skills in data science.

2016
|
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**. Developed 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**. Created 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
|
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
|
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.