

ABHIK ROY



EDUCATION

- 2016 • Western Michigan University
Ph.D. in Program Evaluation
Kalamazoo, MI
- 2007 • Michigan Technological University
M.S. in Mathematics
Houghton, MI
- 2001 • West Virginia Wesleyan College
B.S. in Mathematics
Buckhannon, WV



PROFESSIONAL EXPERIENCE

- 2023
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2016 • *Assistant Professor*
West Virginia University
Morgantown, WV
- Contributed to peer-reviewed publications by authoring and submitting scholarly papers.
 - Conducted rigorous evaluations of a variety of programs, projects, and grants, contributing to their optimization and effectiveness.
 - Designed and implemented dynamic and interactive surveys using HTML, CSS, and JavaScript in the Qualtrics platform.
 - Extracted, wrangled, and cleaned data from various remote sources; developed a range of visualizations from static to interactive for report embedding or dissemination, and built web apps in Shiny all within R/RStudio.
 - Instructed classes in evaluation, measurement, and research methods, emphasizing the application of data science techniques.
 - Mentored Masters and Doctoral students, guiding their academic pursuits and research activities.
- 2016
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2014 • *Data Analyst*
University of Kansas
Lawrence, KS
- Authored detailed evaluation reports, catering to the requirements of diverse stakeholders.
 - Conducted research and deployed predictive statistical models aimed at enhancing student retention and graduation efforts.
 - Developed web applications using Shiny and Tableau, facilitating extraction, summarization, and visualization of data from the organization's Oracle database.
 - Spearheaded and delivered presentations on findings from comprehensive qualitative, quantitative, and mixed-methods studies, both large and small.



WWW

CONTACT INFORMATION

- @ abhikrroy@protonmail.com
- github.com/[drabhikroy](https://github.com/drabhikroy)
- iam.adatasocialscientist.com
- +1 304-554-9436
- ID 0000-0002-7085-8964

EXPERTISE

Content, cluster, and social network analysis

Data visualization

Modeling and analysis using statistics and machine learning

Planning and conducting program evaluations

Programming and analysis in R with markup using $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$

Quantitative, qualitative, and mixed method designs and analyses

Small- and large-scale survey design, implementation, and analyses

Web app development and static/dynamic reporting using



SELECT PROJECTS

Current 2023	<ul style="list-style-type: none"> ● Lead Program Evaluator & Methodologist Healthy Start Initiative West Virginia University Research Corporation 	<ul style="list-style-type: none"> • Building valid and reliable survey instruments to assess participant experiences. • Implementing process, monitoring, and impact evaluations of programmatic activities. 	<ul style="list-style-type: none"> • Utilizing mixed methods designs to study participant data. • Total Award: \$5,470,000 • HRSA-19-049 	📍 Morgantown, WV
Current 2022	<ul style="list-style-type: none"> ● Lead Program Evaluator & Mixed Methods Analyst Teaching Science with Computational Thinking: Preparing Preservice Elementary Educators of the Future STEM Workforce West Virginia University 	<ul style="list-style-type: none"> • Applying mixed methods text analysis of written and interview data using thematic analysis and various machine learning methods. • Constructing and validating survey instruments used to assess progress and programmatic impact. 	<ul style="list-style-type: none"> • Implementing process and impact evaluations of program activities. • Total Award: \$294,958.00 • 2019-NSF 2142274 	📍 Morgantown, WV
2022 2017	<ul style="list-style-type: none"> ● Program Evaluator & Data Scientist WVCTSI: West Virginia Clinical and Translational Science Institute West Virginia University 	<ul style="list-style-type: none"> • Analyzed large data sets using frequentist and Bayesian methods. • Conducted local and multi-site multi-cluster evaluation studies. • Developed/validated items and distributing customized Qualtrics surveys built with CSS and Javascript. 	<ul style="list-style-type: none"> • Mentored future graduate social data scientists. • Pulled, wrangled, and visualized secondary data in R. • Total Award: \$20,000,000 • 2017-NIH 2U54GM104942-02 	📍 Morgantown, WV
2020 2017	<ul style="list-style-type: none"> ● Lead Program Evaluator GAUSSI: Generating, Analyzing, and Understanding Sensory and Sequencing Information: A Trans-Disciplinary Graduate Training Program in Biosensing and Computational Biology Colorado State University 	<ul style="list-style-type: none"> • Conducted process evaluations of multiple grant related programs. • Developed and distributed customized Qualtrics surveys built with CSS and Javascript. • Directed unstructured and semi-structured interviews and focus groups assessing participant experiences. 	<ul style="list-style-type: none"> • Implemented mixed methods evaluations to study program impacts on students and faculty. • Pulled, wrangled, and visualized secondary data. • Total Award: \$3,013,779 • 2017-NSF 1450032 	📍 Fort Collins, CO

SELECT TALKS

2022	<ul style="list-style-type: none"> ● Best of Both Worlds: Affordances of Mixing Machine Learning and Qualitative Content Analysis <i>American Educational Research Association Annual Meeting</i> 	📍 San Diego, CA
2020	<ul style="list-style-type: none"> ● These Aren't Random Words Just Strung Together?: Using Machine Learning and Pretty Visualizations to Discover Topics in Articles. <i>American Evaluation Association Annual Conference</i> 	📍 virtual
2019	<ul style="list-style-type: none"> ● Why Is It That Writers Write but Fingers Don't Fing? Using Machine Learning and Lexemes to Make Sense of Nonsense. <i>American Evaluation Association Annual Conference</i> 	📍 Minneapolis, MN