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 | 2016

Assistant Professor
West Virginia University
📍 Morgantown, WV

- Advising masters and doctoral level students.
- Authoring and submitting papers to peer reviewed publications.
- Pulling data from multiple remote sources, constructing static, active, and interactive visualizations for production and/or embedding within reports, and building Shiny apps and APIs within the R/RStudio environment.
- Developing enhanced and interactive surveys in Qualtrics using HTML, CSS, & Javascipt.
- Evaluating various programs, projects, and grants.
- Teaching evaluation and methods based classes with a focus on data science.

2016 | 2014

Data Analyst
University of Kansas
📍 Lawrence, KS

- Created web apps in Shiny and Tableau to pull, summarize, and visualize data from the organization's Oracle database.
- Led and presented findings from small and large scale qualitative, quantitative, and mixed-methods studies.
- Prepared evaluation reports for various stakeholders.
- Researched and implemented predictive statistical models for student retention and graduation efforts.

🎛 SELECT PROJECTS

Current | 2023

Lead Program Evaluator & Methodologist
Healthy Start Initiative: Eliminating Disparities in Perinatal Health
West Virginia University Research Corporation
📍 Morgantown, WV

- Building valid and reliable survey instruments to assess participant experiences.
- Implementing process, monitoring, and impact evaluations of programmatic activities.
- Utilizing mixed methods designs to study participant data.
- Total Award: *$4,870,000*
- *HRSA-19-049*

🌐 WWW

CONTACT INFORMATION

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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 ®️ with markup using $\LaTeX$

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

Current | 2022	*Lead Program Evaluator & Mixed Methods Ananlyst* Teaching Science with Computational Thinking: Preparing Preservice Elementary Educators of the Future STEM Workforce West Virginia University 📍 Morgantown, WV · 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. · Implementing process and impact evaluations of program activities. · Total Award: *$294,958.00* · *2019-NSF 2142274*
2022 | 2017	*Program Evaluator & Data Scientist* WVCTSI: West Virginia Clinical and Translational Science Institute West Virginia University 📍 Morgantown, WV · Analyzed large data sets using frequentist and Bayesian methods. · Conducted local and multi-site mutli-cluster evaluation studies. · Developed/validated items and distributing customized Qualtrics surveys built with CSS and Javascript. · Mentored future graduate social data scientists. · Pulled, wrangled, and visualized secondary data in R. · Total Award: *$20,000,000* · *2017-NIH 2U54GM104942-02*
2020 | 2017	*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 📍 Fort Collins, CO · 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. · 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*

🖵 SELECT TALKS

2022	Best of Both Worlds: Affordances of Mixing Machine Learning and Qualitative Content Analysis *American Educational Research Association Annual Meeting* 📍 San Diego, CA
2020	These Aren't Random Words Just Strung Together?: Using Machine Learning and Pretty Visualizations to Discover Topics in Articles. *American Evaluation Association Annual Conference* 📍 *virtual*
2019	Why Is It That Writers Write but Fingers Don't Fing? Using Machine Learning and Lexemes to Make Sense of Nonsense. *American Evaluation Association Annual Conference* 📍 Minneapolis, MN