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

Current | 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

2022 ● *Program Evaluator*
Teaching Science with Computational Thinking: Preparing Preservice Elementary Educators of the Future STEM Workforce
West Virginia University
📍 Morgantown, WV

- Implementing process and impact evaluations of program activities
- Conducting quantitative text analysis of written and interview data using machine learning
- Constructing and validating survey instruments used to assess progress and effect
- Total Amount: *$294,958.00*

CONTACT INFORMATION

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EXPERTISE

Data visualization

Content, cluster, and social network analysis

Modeling using statistics and machine learning

Text mining

Planning and conducting program evaluations

Designing and administering small- and large-scale surveys

Programming and analysis in Ⓡ **with markup using** $\LaTeX$

App development and dynamic reporting using

2017 | 2022

Data Scientist & Program Evaluator
WVCTSI: West Virginia Clinical and Translational Science Institute
West Virginia University   📍 Morgantown, WV
  · Analyzing large data sets using frequentist and Bayesian methods.
  · Conducting local and multi-site mutli-cluster evaluation studies.
  · Developing/validating items and distributing customized Qualtrics surveys built with CSS and Javascript.
  · Pulling, wrangling, and visualizing secondary data in R.
  · Mentoring future graduate social data scientists.
  · Total Amount: *$20,000,000*
  · Website: PERC

2020

Program Evaluator
Research Initiative: A Holistic Cross-Disciplinary Project Experience as a Platform to Advance the Professional Formation of Engineers
West Virginia University   📍 Morgantown, WV
  · Advising engineering faculty and graduate students on implementation of study methods.
  · Conducting quantitative and qualitative studies on undergraduate student experiences within grant related programs.
  · Total Amount: *$200,000*

2020 | 2017

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
  · Conducting biannual evaluations of multiple grant related programs.
  · Developing and distributing customized Qualtrics surveys built with CSS and Javascript.
  · Pulling, wrangling, and visualizing secondary data in R.
  · Writing annual program and National Science Foundation reports.
  · Total Amount: *$3,013,779*

🖥 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

Made in ℝ: Source code

Last updated on May 08, 2023