





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





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 static, active, and interactive visualizations for public reporting and/or dissemination to clients, and built web apps in Shiny.
 - Instructed classes in evaluation, measurement, research methods, and survey design with an emphasis on 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 comprehensive qualitative, quantitative, and mixed-methods studies and delivered presentations on findings.

CONTACT INFORMATION

- @ abhikroy@protonmail.com
-  github.com/drabhikroy
-  iam.adasocialscientist.com
-  +1 304-554-9436
-  0000-0002-7085-8964

EXPERTISE

Content, cluster, and social network analysis

Data visualization

Markup using *L^AT_EX*

Program evaluations from planning to reporting

Quantitative, qualitative, and mixed method studies

 **programming**

Small- and large-scale survey design, administration, and research





Statistical modeling and analysis

Web application development and static/dynamic reporting using






WWW 

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
 - 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.
- Current | 2022
- *Lead 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
 - 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.
- 2022 | 2017
- *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
 - Analyzed large data sets using frequentist and Bayesian methods.
 - Mentored future graduate social data scientists.
 - Conducted local and multi-site multi-cluster evaluation studies.
 - Pulled, wrangled, and visualized secondary data in R.
 - Developed/validated items and distributing customized Qualtrics surveys built with CSS and Javascript.
- 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 ([2017-NSF 1450032](#) Total Award: \$3,013,779)
Colorado State University  Fort Collins, CO
 - Conducted process evaluations of multiple grant related programs.
 - Implemented mixed methods evaluations to study program impacts on students and faculty.
 - Developed and distributed customized Qualtrics surveys built with CSS and Javascript.
 - Pulled, wrangled, and visualized secondary data.
 - Directed unstructured and semi-structured interviews and focus groups assessing participant experiences.

SELECT PRESENTATIONS AND 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