THE SEEDS READER

Student Engagement and Enrichment in Data Science (SEEDS) Reading List
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OVERVIEW AND PURPOSE

To give students in the SEEDs program the background and significance of intersectional and critical race approaches to data science with a focus on both practical and philosophical perspectives on the relationship between data, culture, and society.

PRIMARY OBJECTIVE

Ensuring that SEEDS students have both knowledge and understanding of key frameworks and perspectives that they can utilize both within and outside of the program.

LEADING QUESTION(S)

- How can we use data to improve the conditions of Black communities?
- What does Black Studies bring to research on data, science, and technology?
- How is intersectional data constructed and understood across fields and disciplines?
- In what ways can Afrofuturism be used to create more ethical and socially just theories and practices in STEM fields?

SHORT READINGS (Less than 10 Pages)


ADDITIONAL READINGS (Greater than 10 Pages)


WEEKLY DISCUSSION AND/OR EVENT TOPICS

- Critical Race Approaches to Data Science: Participatory Design and Creating Community Based Standards for Research
- Rep Your Set: The History of Data and the Representation of Race
- Let’s Talk About Reading: Data Literacy in the Public Sphere
- Designing Data Defenses: Database Design, Cybersecurity, and the Protection of Vulnerable Population(s)
- Mis/Information and Memes: Understanding Disinformation in the Era of Big Data
- “Black on the Block”: Race, Redlining, and the Use(s) of Census Data
- POC’s and the Pandemic: COVID-19 and the History of Healthcare Data
- The Black Tax: Using Data to Address Wealth Inequality and Access to Resources
- Skinfolk vs. Kinfolk: DNA, Genes, and the Politics of Manipulating Human Cell Data
- Unpacking the Black Box: Algorithms and the Data of Discriminatory Design
- Where My Sisters At?: Data Feminism and the Ethics of Intersectional Data
- Predicting Bias: Robots, Recommendation Systems, and Machine Learning
- Calculating Clicks: The Role of Race in Consumer Insights and Audience Data
- DEI and Data: The Role of Fairness and Equality in STEM
- Bringing Intersectionality to Identity Based Data: On The Disaggregation of Data
- The “Missing Missing”: Understanding the Complexity of Missing Data Sets
- Mask Off: Facial Recognition Data and the Construction of a Digital Panopticon
- Enter the Meta-Verse: Data Justice and Public Policy in Virtual Environments
- Making a Mess: Data Cleaning and the Politics of Noisy Data
- The Afro-Future: On Speculative Ethics and Constructing a Black Data Culture