KATY WEATHINGTON

Katy.weathington@colorado.edu

EDUCATION

rquette University, Data Science & Mathematics duated with Honors, Cum Laude	May 2019
·	
quette University, Computing cialization: Big Data & Data Analytics	May 2020
· · · · · · · · · · · · · · · · · · ·	May 2025
٧	iversity of Colorado Boulder, Information Science visors: Dr. Brian Keegan & Dr. Jed Brubaker rquette University, Computing

RESEARCH EXPERIENCE

Marquette Computational Social Science Lab, Marquette University

2017-2020

Researcher, Dr. Shion Guha

• Developed algorithmic crime mapping tools

Undergraduate research fellowship from the NSF

- Quantitative and qualitative analysis of participant responses
- Found distance metric to be an impactful but often overlooked parameter
- Found defaults were rarely changed or considered
- Implies training for crime analysts needs to be more thorough and technical

Funded by NSF Grant #1850517 (https://www.nsf.gov/awardsearch/showAward?AWD_ID=1850517)

Funded by NSF Grant #1461264 (https://www.nsf.gov/awardsearch/showAward?AWD_ID=1461264)

NSF REU Site, Marquette University

2018

REU Fellow, Dr. Shion Guha

- Analysis of DBScan clustering algorithm
- Data geocoding
- Found that DBScan was poorly suited to cluster crime in cities

Funded by NSF Grant #1461264 (https://www.nsf.gov/awardsearch/showAward?AWD_ID=1461264)

PUBLICATIONS

Lightly Peer Reviewed

- **Katherine Weathington** and Morgan Klaus Scheuerman, "Harm and Data Science: Framing Negative Human Outcomes as a Data Science Problem," *Interrogating Data Science Workshop at CSCW '20*, Oct. 2020
- M. D. Romael Haque, **Katherine Weathington**, Joseph Chudzik and Shion Guha, "Understanding Law Enforcement and Common Peoples' Perspectives on Designing Explainable Crime Mapping Algorithms," *CSCW '20 Companion*, Oct. 2020.
- M. D. Romael Haque, **Katherine Weathington** and Shion Guha, "Exploring the Impact of (Not) Changing Default Settings in Algorithmic Crime Mapping A Case Study of Milwaukee, Wisconsin," *CSCW '19 Companion*, Nov. 2019.

TEACHING

Teaching Assistant for Computational Reasoning 1

Spring 2021

Teaching Assistant for Computational Reasoning 2

Fall 2020

MEDIA APPEARANCES

"Predictive policing algorithms are racist. They need to be dismantled." by Will Douglas Heaven, *MIT Technology Review*, July 17 2020.

PROFESSIONAL TRAINING

Spatial Data Analytics Workshop

Marquette University, Milwaukee, WI, January 10-12th 2018 Introduction to GIS software such as ArcGIS.

SKILLS

Programming: Python, R, JavaScript, Java

Platforms: PythonAnywhere, AWS

AFFILIATIONS

Association for Computing Machinery

SIGCHI

Upsilon Pi Epsilon Honor Society

Inducted member

SERVICE & LEADERSHIP POSITIONS

Marquette Gender & Sexuality Alliance, Vice President

2018-2019