

Vivian F. Guetler

ASSISTANT PROFESSOR

University of Northern Colorado, Greeley, CO

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Education

West Virginia University

Morgantown, WV

PHD IN SOCIOLOGY

2016 - 2022

- Specializations: crime, cyber-terrorism and cybercrime, society & technology
- Dissertation: Detecting Terror Online: Text Analysis of Jihadists Dark Web Forums

Syracuse University

Syracuse, NY

MA IN PAN AFRICAN STUDIES

2013 - 2015

- Thesis: Educational Experiences of Refugees in the US

Syracuse University

Syracuse, NY

OTHER COURSEWORK IN INFORMATION MANAGEMENT

2015 - 2016

- Information Environments, Introduction to Information Management, Managing Information Systems Projects

Alpen Adria Klagenfurt University

Klagenfurt, Austria

BA IN ENGLISH AND AMERICAN STUDIES

2010 - 2013

Professional Experience

Department of Criminology and Criminal Justice, University of Northern Colorado

Greeley, CO

ASSISTANT PROFESSOR

August 2022 - current

- Fall 2022 CRJ 360 Theories of Crime

Department of Sociology, West Virginia University

Morgantown, WV

GRADUATE INSTRUCTOR

August 2019 - current

- Spring 2022 SOC 393A Sociology of Artificial Intelligence
- Spring 2022 SOC 101 Introduction to Sociology
- Fall 2021 SOC 101 Introduction to Sociology
- Fall 2021 SOC 101 Introduction to Sociology (Web-based)
- Fall 2019 SOCA 101 Introduction to Sociology
- Spring 2020 SOCA 101 Introduction to Sociology (Web-based)
- Spring 2020 SOCA 101 Introduction to Sociology (Web-based)

Department of Sociology, West Virginia University

Morgantown, WV

GRADUATE TEACHING ASSISTANT

August 2016 - May 2018

- SOCA 105 Introduction to Anthropology
- SOCA 234 The American Criminal Justice System
- SOCA 319 Police Culture and Socialization
- SOCA 331 Sociology of Law
- SOCA 334 White Collar Crime
- SOCA 345 Terrorism
- SOCA 337 Sociology of Business

Department of African American Studies, Syracuse University

Syracuse, NY

GRADUATE TEACHING ASSISTANT

Aug. 2012 - May 2015

- AAS 306 African American Politics
- AAS 346 Comparative Third World Politics
- AAS 361 Art of the Black World
- AAS 304 Workshop in African American Theater
- AAS 309 Race, Gender and Sexuality in the African Diaspora

Research & Teaching Interests

Topics Cyberterrorism, cybercrime, crime, sociology of artificial intelligence, technology & society, algorithmic bias, programming languages
Methods Computational social and data science, network science, natural language processing, qualitative research

Research Experience

Department of Sociology, West Virginia University

RESEARCH ASSISTANT

- Advisor: Dr. Katie Corcoran
- Project: Competition and inter-congregational network ties

Morgantown, WV

May 2020 - August 2020

eScience Institute, University of Washington

DATA SCIENCE FOR SOCIAL GOOD FELLOW

- Project: Development of Algorithmic Equity Toolkit with community organizations in Seattle

Seattle, WA

May 2019 - August 2019

Injury Control Research Center, West Virginia University

RESEARCH ASSISTANT

- Advisor: Dr. Robert Bossarte
- Project: community resiliency and suicide amongst West Virginia rural communities

Morgantown, WV

May 2018 - May 2019

Near East Foundation

PROGRAM DEVELOPMENT & RESEARCH INTERN

- Projects: writing proposals and program development research

Syracuse, NY

May 2017 - Aug. 2017

Publications

An Action-Oriented AI Policy Toolkit for Technology Audits by Community Advocates and Activists

US

P. M. KRAFFT, MEG YOUNG, MICHAEL KATELL, JENNIFER E. LEE, SHANKAR NARAYAN, MICAH EPSTEIN, DHARMA DAILEY, BERNEASE HERMAN, AARON TAM, **VIVIAN GUETLER**, CORINNE BINTZ, DANIELLA RAZ, PA OUSMAN JOBE, FRANZISKA PUTZ, BRIAN ROBICK, AND BISSAN BARGHOUTI. IN PROCEEDINGS OF THE 2021 ACM CONFERENCE ON FAIRNESS, ACCOUNTABILITY, AND TRANSPARENCY (FACCT '21). ASSOCIATION FOR COMPUTING MACHINERY

2021

Face Mis-ID: An Interactive Pedagogical Tool Demonstrating Disparate Accuracy Rates in Facial Recognition

US

RAZ DANIELLA, CORINNE BINTZ, **VIVIAN GUETLER**, AARON TAM, MICHAEL KATELL, DHARMA DAILEY, BERNEASE HERMAN, P. M. KRAFFT, AND MEG YOUNG. IN PROCEEDINGS OF THE 2021 AAAI/ACM CONFERENCE ON AI, ETHICS, AND SOCIETY (AI/ES '21). ASSOCIATION FOR COMPUTING MACHINERY, NEW YORK, NY, USA, 895–904

2021

Toward Situated Interventions for Algorithmic Equity: Lessons from the Field

US

KATELL M, MEG YOUNG, DHARMA DAILEY, BERNEASE HERMAN, **VIVIAN GUETLER**, AARON TAM, CORINNE BINTZ, DANIELLA RAZ & P.M KRAFFT. ASSOCIATION FOR COMPUTING MACHINERY, NY 2020

2020

An Algorithmic Equity Toolkit for Technology Audits by Community Advocates and Activists

US

KATELL M, MEG YOUNG, DHARMA DAILEY, BERNEASE HERMAN, **VIVIAN GUETLER**, AARON TAM, CORINNE BINTZ, DANIELLA RAZ & P.M KRAFFT. PREPRINT ARXIV 2019

2019

A toolkit for Algorithmic Equity and Community Empowerment

US

KATELL M, MEG YOUNG, DHARMA DAILEY, BERNEASE HERMAN, **VIVIAN GUETLER**, AARON TAM, CORINNE BINTZ, DANIELLA RAZ & P.M KRAFFT. ICONFERENCE 2020 PROCEEDINGS

2020

Manuscript in Progress

Social Bond Theory and Violent Extremism

VIVIAN GUETLER & JESSE WOZNIAK

- Under review

US

2020

Congregational Competition or Collaboration?: A Social Network Analysis of Inter-congregational Ties in a Local Religious Market

KATIE CORCORAN, CHRIS SCHEITL, **VIVIAN GUETLER**

- Under review

US

2020

Where does AI fairness and accuracy lead us? Research through design with community organizations

VIVIAN GUETLER, MEG YOUNG, MICHAEL KATELL, DHARMA DAILEY, BERNEASE HERMAN, AARON TAM, CORINNE BINTZ, DANIELLA RAZ & P.M KRAFFT.

- Under review

US

2021

Juvenile Female Hackers: Sociological Factors Associated with Juvenile Cybercrime Behaviors

VIVIAN GUETLER

- Manuscript in progress

US

2021

Online Social Learning, Virtual Networks, Social Media & Violent Extremism in the U.S.

VIVIAN GUETLER

- Manuscript in progress

US

2020

Examining the Dark Web: Research Design and Methods of Textual Analysis for Detecting Online Extremism

VIVIAN GUETLER

- Manuscript in progress

US

2020

Presentations

Topic Models of Jihadist Dark Web Forums: A Computational Social Science Approach

THE AMERICAN SOCIETY OF CRIMINOLOGY ANNUAL MEETING

Atlanta, GA

Nov. 2022

Sentiment Analysis of Twitter Users Towards #Charlottesville Unite the Right Rally

THE AMERICAN SOCIETY OF CRIMINOLOGY ANNUAL MEETING

San Francisco, CA

Nov. 2019

Sentiment Analysis & Topic Modelling of Twitter Users Towards #Charlottesville Unite the Right Rally

GRACE HOPPER CELEBRATIONS, WOMEN IN COMPUTING

Orlando, Florida

Oct. 2019

Terrorists of a Feather Flock Together: Homophily & Prestige in Dark Networks

NETSCI 2019, UNIVERSITY OF VERMONT

Burlington, VT

June 2019

The Code War: Examining #OpISIS Hacktivism Campaign Against Cyber-Caliphates

CONFERENCE FOR TECHNOLOGY & FUTURE OF TERROR - **INVITED SPEAKER**

Atlanta, GA

April 2019

Tweeting After an Attack: Examining Twitter Reactions of Al-Shabaab's Terror Attacks

MINNESOTA POLITICAL METHODOLOGY COLLOQUIUM

Minneapolis, MN

April 2019

"Don't Try to Drown out the Conversation, Let's Talk About What Jihad Means": Framing Terrorism in the U.S Media

AMERICAN SOCIOLOGICAL ASSOCIATION, MEDIA PRE-CONFERENCE

Philadelphia, PA

Aug. 2018

Terrorism as a Family Affair

ANNUAL STRATEGIC MULTI-LAYER ASSESSMENT CONFERENCE JOINTLY WITH DHS, DNI, NIC, NCTC

Joint Base Andrews, MD

April 2018

Is Terrorism a Family Affair? Analyzing Pathways to Violent Extremism across Ideologies in the US

AMERICAN SOCIETY OF CRIMINOLOGY ANNUAL MEETING

Philadelphia, PA

Nov. 2017

Are We Reaching the Targeted Population? Countering Jihadi Narratives on Facebook

SOCIETY FOR TERRORISM RESEARCH, 11TH ANNUAL INTERNATIONAL CONFERENCE, NYU

New York, NY

Aug. 2017

Negotiating Multiple Identities and Formal Schooling: Narratives of Somali Bantu Refugee Youths in the United States

MOBILIZING LITERACY RESEARCH FOR SOCIAL TRANSFORMATION, LITERACY RESEARCH ASSOCIATION 66TH ANNUAL CONFERENCE

Nashville, TN

Nov 2016

Grants & Awards

2020	Inaugural Outstanding Dissertation Fellowship , Department of Sociology & Anthropology, West Virginia University	Morgantown, WV
2020	Outstanding Graduate Teaching Assistant , Eberly College, West Virginia University	Morgantown, WV
2020	Instagram Award for Research on Social Technologies - \$50,000 unfunded , Facebook	Morgantown, WV
2019	Student Scholar Grace Hopper Celebration Women in Computing , AnitaB.org	Orlando, FL
2019	Data Science for Social Good Fellow , eScience Institute, University of Washington	Seattle, WA
2019	Modern Longitudinal Data Analysis in R Workshop Travel Grant , Society for Multivariate Experimental Psychology	College Park, MD
2018	Outstanding Graduate Teaching Assistant , Eberly College, West Virginia University	Morgantown, WV
2016	Women in Computer Research Association Travel Grant , iSchool, Syracuse University	Syracuse, NY
2015	Diversity Scholarship , iSchool, Syracuse University	Syracuse, NY

Skills

Functional	Data analysis & visualization, project management, quantitative & qualitative research methods
Programming	R, Python, STATA, Markdown, HTML, CSS, JavaScript, SQL, LaTeX, Tableau, Git/Github

Professional Service

2021	Software Carpentry Workshop Instructor , Programming in R, West Virginia University	Morgantown, WV
2020	Software Carpentry Workshop Instructor , Basic Python and Git/Bash, West Virginia University	Morgantown, WV
2020	Software Carpentry Workshop Instructor/Helper , Basic R, West Virginia University	Morgantown, WV
2020	Software Carpentry Workshop Instructor/Helper , Basic Python, West Virginia University	Morgantown, WV
2019	Software Carpentry Workshop Instructor/Helper , Basic Python, West Virginia University	Morgantown, WV
2018	Reviewer , Sociological Focus	U.S
2018	Mentor , Cohort Mentorship Program, Department of Sociology	Morgantown, WV

Professional Membership

2022	Women in Cybersecurity , WiCyS	U.S
2020	Mathematical Sociology , ASA section	U.S
2019	American Sociological Association , ASA	U.S
2018	Communication, Information Technologies, and Media Sociology , ASA section	U.S
2017	American Society of Criminology (ASC) , Division of Cybercrime	U.S