

Curriculum Vitae/Resume: Ciabhan CONNELLY

Undergraduate researcher in computer science and political science, with a particular interest in data science applied to the domain of politics, humanities, and social good.

CONTACT INFORMATION

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EDUCATION

UNIVERSITY: Indiana University, Bloomington
MAJOR: BA in Computational Approaches to Political Analysis (Major GPA: 3.7)
MINOR: French
GRADUATION: May 2020

RESEARCH EXPERIENCE

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| <i>Current</i> | <p>Data Analytics Researcher at the Indiana University Ostrom Workshop
<i>PI: Anjanette Raymond, JD</i></p> <p>Linguistic analysis of judicial decisions and court transcripts to identify markers for judicial bias. Additionally, machine learning with court databases to identify more nuanced causes of biased outcomes. We recently wrote a book chapter on implementing algorithms in a government context [P4]</p> |
| <i>Summer 2019</i> | <p>HCI Researcher at Indiana University
<i>PI: Dr. Patrick Shih</i></p> <p>This work applies the emerging Asynchronous Remote Community (ARC) Method to the population of individuals living with HIV. Core elements include HCI study design, data analysis, and paper writing. Continuing research from Indiana University's Pro Health REU 2017. This research has produced a paper [P2][T2] that I had the opportunity to present at CHI 2018, and to students and faculty at The University of Texas Rio Grande Valley [T1]. Further results of this research have been accepted to CHI 2020 [P5]. My analysis of the relationship between individuals seeking and providing support on HIV related internet forums plays a role in [P3].</p> |
| SUMMER 2019 | <p>Data Mining Researcher at George Mason University
<i>PI: Dr. Huzefa Rangwala</i></p> <p>Data mining research using George Mason University's student dataset to predict retention, dropout, and graduation time of STEM undergraduates.</p> |
| SUMMER 2018 | <p>Machine Learning Researcher at The University of Texas at Dallas
<i>PI: Dr. Sriraam Natarajan</i></p> <p>Machine learning on the Supreme Court Database involving creating a demographic extension to the database in order to model judicial bias. Dr. Natarajan is still helping to advise this project, which ties in to my current work with Professor Raymond.</p> |
| SUMMER 2017 | <p>HCI Researcher at Indiana University
<i>PI: Dr. Patrick Shih</i></p> <p>Work towards a poster [NP3] and publication [P1] analyzing past implementations of the ARC method to grant insights to future researchers attempting to design a study. Additionally, an ongoing ARC study through Facebook.</p> |

SUMMER 2016	Machine Learning Researcher at Indiana University <i>PI: Dr. Sriraam Natarajan</i> Machine learning to automatically identify drug interactions from medical abstracts [NP2]. I developed data processing and cleaning skills over the course this experience.
SPRING 2016	Independent Research <i>Advisor: Dr. Michael Ryan</i> Traveled across Europe for two months distributing a survey on attitudes towards the European Union, and analyzed the data gathered.
SUMMER 2015	Qualitative Data Analyst at Indiana University, <i>PI: Dr. Jean Camp</i> Worked with a team to develop a code-book and qualitatively code open-ended survey responses to gauge the relationship between computer expertise and computer security expertise [NP1].

PEER REVIEWED PUBLICATIONS

- [P5] Juan F. Maestre, K. Cassie Kresnye, Julia C. Dunbar, **Ciabhan L. Connelly**, Katie A. Siek, and Patrick C. Shih., *Conducting HCI Research with People Living with HIV Remotely: Lessons Learned and Best Practices*. Accepted to CHI 2020 Case Studies.
- [P4] Angie Raymond, and **Ciabhan L. Connelly**., *Governance Of Algorithms: Rethinking Public Sector Use of Algorithms For Predictive Purposes* chapter in Cambridge Handbook on Law and Algorithms. (expected late 2019)
- [P3] Juan F. Maestre, Susan Herring, Aehong Min, **Ciabhan Connelly**, and Patrick C. Shih., *Where and How to Look for Help Matters: Analysis of Support Exchange in Online Health Communities for People Living with HIV*. Information 9, no. 10 (2018): 259.
- [P2] Juan F. Maestre, Haley MacLeod, **Ciabhan L. Connelly**, Julia C. Dunbar, Jordan Beck, Katie A. Siek, and Patrick C. Shih, *Defining Through Expansion: Conducting Asynchronous Remote Communities (ARC) Research With Stigmatized Groups*. CHI 2018.
- [P1] Julia C. Dunbar, **Ciabhan L. Connelly**, Juan F. Maestre, Haley Macleod, Katie A. Siek, and Patrick C. Shih, *Considerations for Using the Asynchronous Remote Communities (ARC) Method in Health Informatics Research*. In Workshop on Interactive Systems in Healthcare (WISH), November 2017.

NON-PEER REVIEWED POSTER PRESENTATIONS

- [NP6] **Ciabhan L. Connelly**, Nicci Casenas, Abhi Kumar., *Predicting STEM Retention at George Mason University*. Poster presentation at George Mason University, August 2019.
- [NP5] **Ciabhan L. Connelly**., *Bayesian Analysis of Racial Bias in Supreme Court Cases*. Poster presentation at Indiana University, May 2019.
- [NP4] Julia C. Dunbar, **Ciabhan L. Connelly**, Juan F. Maestre, Haley Macleod, Katie A. Siek, and Patrick C. Shih, *Considerations for Using the Asynchronous Remote Communities (ARC) Method in Health Informatics Research*. Poster presentation in Workshop on Interactive Systems in Healthcare (WISH), November 2017.
- [NP3] **Ciabhan Connelly**, Julia Dunbar, Juan F. Maestre, Haley MacLeod, Katie A. Siek, and Patrick C. Shih, *Asynchronous Remote Communities (ARC) Method Blueprint: a Guidebook to the ARC Method*. Poster presentation at Indiana University, July 2017.
- [NP2] Alexander Hayes, Savannah Smith, **Ciabhan Connelly**, Devendra Dhama, and Sriraam Natarajan, *Predicting Drug Interactions: Combining Machine Learning and Natural Language Processing*. Poster presentation at Indiana University, July 2016.

[NP1] Joshua Overway, **Ciabhan Connelly**, *Computer and Security Expertise*. Poster presentation at Indiana University, July 2015.

CONFERENCE AND INVITED TALKS

[T2] Personally presented *Defining Through Expansion: Conducting Asynchronous Remote Communities (ARC) Research With Stigmatized Groups* at CHI 2018.

[T1] Invited to speak on *The Importance of Triangulation in the Asynchronous Remote Community (ARC) Method* at University of Texas Rio Grande Valley, October 2017.

DATA ANALYSIS SKILLS

Tools		Machine Learning		Other	
R:	Skilled	DECISION TREES:	Skilled	STATISTICS:	Skilled
WEKA:	Skilled	RANDOM FORESTS:	Skilled	QUALITATIVE CODING:	Skilled
EXCEL:	Skilled	REGRESSION:	Skilled	DATA CLEANING	Skilled
DEDOOSE:	Familiar	KNN:	Skilled		
		LINEAR SVMs:	Skilled		
		GAUSSIAN SVMs:	Familiar		
		BAYESIAN ANALYSIS:	Familiar		
		NEURAL NETWORKS:	Familiar		

SKILLS

Programming		Other	
JAVA:	Skilled	FRENCH LANGUAGE:	Fluent
HTML:	Skilled	ACADEMIC WRITING:	Skilled
SCHEME/RACKET:	Skilled	CREATIVE WRITING:	Skilled
PYTHON:	Skilled	LATEX:	Skilled
JAVASCRIPT:	Familiar	GITHUB	Skilled