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

Address: 320 South Eastside Drive, Bloomington, Indiana, U.S.
Phone: +1 812 243-1519
Website: CiabhanConnelly.com
email: ciaconne@iu.edu

Research Experience

Current | HCI Researcher at Indiana University
PI: Dr. Patrick Shih
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 [2] that I had the opportunity to present at CHI 2018, and to students and faculty at The University of Texas Rio Grande Valley [3]. My analysis of the relationship between individuals seeking and providing support on HIV related internet forums plays a role in [1].

Current | Data Analytics Researcher at the Indiana University Ostrom Workshop
PI: Anjanette Raymond, JD
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

Summer 2018 | Machine Learning Researcher at The University of Texas at Dallas
PI: Dr. Sriraam Natarajan
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.

Summer 2017 | HCI Researcher at Indiana University
PI: Dr. Patrick Shih
Work towards a poster [5] and publication [4] 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.

Summer 2016 | Machine Learning Researcher at Indiana University
PI: Dr. Sriraam Natarajan
Machine learning to automatically identify drug interactions from medical abstracts [6]. I developed data processing and cleaning skills over the course this experience.

Spring 2016 | Independent Research
Advisor: Dr. Michael Ryan
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,
PI: Dr. Jean Camp
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 [7].

Education

University:	Indiana University, Bloomington
Major:	Computational Approaches to Political Analysis
Graduation:	May 2020

Publications, Presentations, and Posters

[1] Juan F. Maestre, Susan Herring, Aehong Min, **Ciabhan Connelly**, and Patrick 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.

[2] 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.

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

[4] 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.

[5] **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.

[6] Alexander Hayes, Savannah Smith, **Ciabhan Connelly**, Devendra Dhami, and Sriraam Natarajan, *Predicting Drug Interactions: Combining Machine Learning and Natural Language Processing*. Poster presentation at Indiana University, July 2016.

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

Data Analysis Skills

Tools		**Machine Learning**		**Other**	
R:	Adept	Decision Trees:	Adept	Statistics:	Adept
Weka:	Adept	Random Forests:	Adept	Qualitative Coding:	Adept
Excel:	Adept	Regression:	Adept	Data Cleaning	Adept
Dedoose:	Familiar	KNN:	Adept		
		Linear SVMs:	Adept		
		Gaussian SVMs:	Familiar		
		Bayesian Analysis:	Familiar		
		Neural Networks:	Familiar		

Skills

Programming		**Other**	
Java:	Adept	French Language:	Fluent
HTML:	Adept	Academic Writing:	Adept
Scheme/Racket:	Adept	Creative Writing:	Adept
Python:	Adept	LaTeX:	Adept
Javascript:	Familiar	GitHub	Familiar