

# Christopher Newton, ABD

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## EXPERIENCE

### UNIVERSITY AT BUFFALO, SUNY | INSTRUCTOR

Aug 2020 – Present | Buffalo, NY

- PSC 430 Human Rights
- Undergraduate class focused on what human rights are, what causes their violation, and what can be done to prevent and reduce further violations.

### UNIVERSITY AT BUFFALO, SUNY | RESEARCH ASSISTANT

Aug 2019 – June 2020 | Buffalo, NY

- RA for Prof. Michelle Benson.
- Assisted with data cleaning, merging, and analysis.

### UNIVERSITY AT BUFFALO, SUNY | RESEARCH FELLOW

Dec 2018 – July 2019 | Buffalo, NY

- Collected, coded, and organized data on United Nations Security Council Resolutions from 1989 to 2018.
- Funded through Folke Bernadotte Academy (Principal Researcher: Prof. Michelle Benson)

## PROJECTS (PARTIAL LIST)

### DATA SCRAPING/TEXT ANALYSIS | BASH, PERL, PYTHON, & R

Media & Murder: The Effect of News Coverage on Postconflict Criminal Violence in Colombia

- HTML of articles from all available Colombian newspapers was scraped using Bash, processed using Perl to extract all sentences referring to the FARC, passed through a sentiment analysis classifier in Python, and then analyzed statistically in R to examine whether the coverage of rebels affected reintegration.

### MACHINE LEARNING | PYTHON & R

Prediction and Theories of Violence

- Three theories of violence - Organizational Theory of Civilian Victimization, Political Economy of Crime, & Social Disorganization Theory - are pitted against each other as well as against an atheoretical model, to see which collection of features best predicts homicide levels in post-conflict countries.
- Various ML techniques, including Random Forests, LSTM, and Stochastic Gradient Descent.

### QUASIEXPERIMENTAL STATISTICS | R

Can UN Peacekeeping Improve Health Outcomes Long After the Shooing Stops? (with Michelle Benson, Chhandosi Roy, and Colin Tucker)

- Civil wars do more damage then the short term killing they are known for. The destruction of health infrastructure & to the economy leads to worse health outcomes long after the formal end of the war. We examine whether deployment of UN Peacekeeping Operations to conflicts can help mitigate the sustained negative effects of civil wars. Coarsened Exact Matching is used to account for the nonrandom deployment of Peacekeepers to wars (Accepted to ISA 2020).

## EDUCATION

### UNIVERSITY AT BUFFALO, SUNY

DOCTOR OF PHILOSOPHY IN  
POLITICAL SCIENCE

- Comparative Politics
- International Relations

Expected 2021

MASTER OF ARTS IN GLOBAL AFFAIRS  
2020

ADVANCED CERTIFICATE IN DATA  
ANALYSIS FOR THE SOCIAL SCIENCES  
2020

### STATE UNIVERSITY OF NEW YORK AT FREDONIA

BACHELOR OF ARTS IN MUSIC

2014

- Classical Guitar
- Jazz Studies
- Minor in Spanish

## SKILLS

### TECHNICAL

R (tidyverse, zeligverse, base r, rgeos, gganimate) • Python (pandas, numpy, scikit-learn, tensorflow, dash, seaborn, matplotlib, geopandas)  
STATA • Bash/Linux • Perl  
L<sup>A</sup>T<sub>E</sub>X • Git & GitHub • SQL

### LANGUAGES

English (native) • Spanish (fluent)  
French (conversational)

## COURSEWORK

### GRADUATE

Advanced Statistics For Social Sciences  
Advanced Multivariate Statistics  
Corpus Linguistics  
Experimental Methods  
Game Theory

### KAGGLE CERTIFICATES

Intermediate Machine Learning  
Intro to Machine Learning  
Natural Language Processing  
Intro to SQL  
Data Visualization