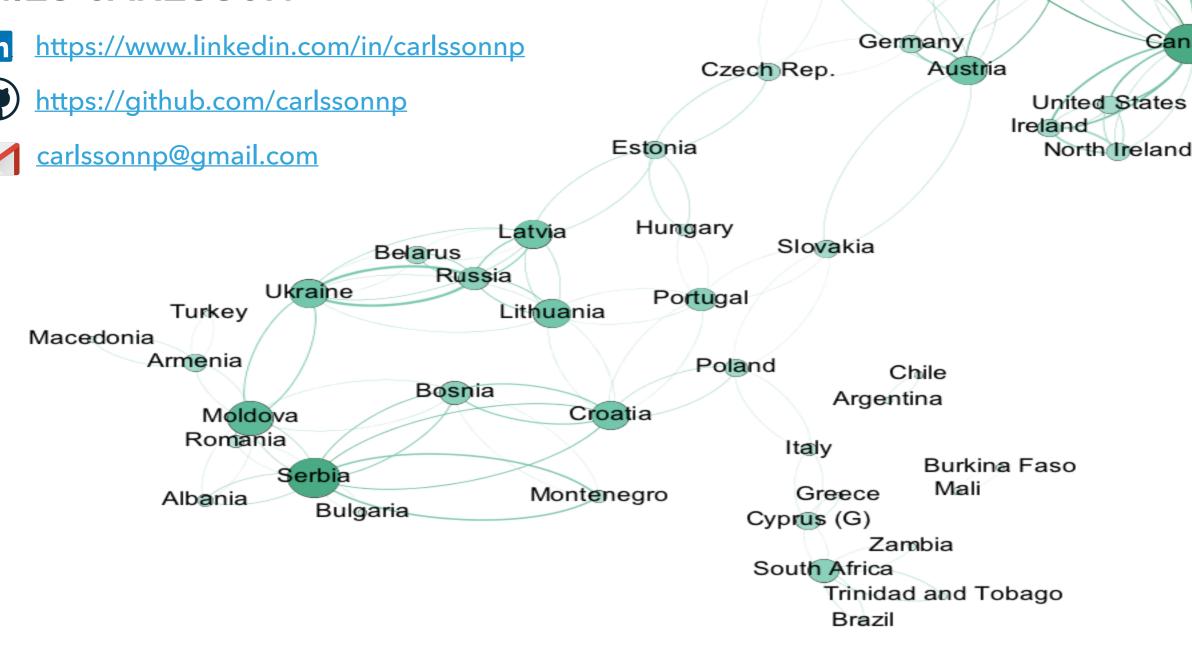
TRACKING SOCIAL VALUE TRENDS ACROSS TIME AND **SPACE**

NILS CARLSSON



Denmark

Netherlands

Great Britain

Canada

Norway

Belgium

Switzerland

Australia

Sweden

Luxembourg

France

inlan

Spain

Uruguay

Andorra

Slovenia

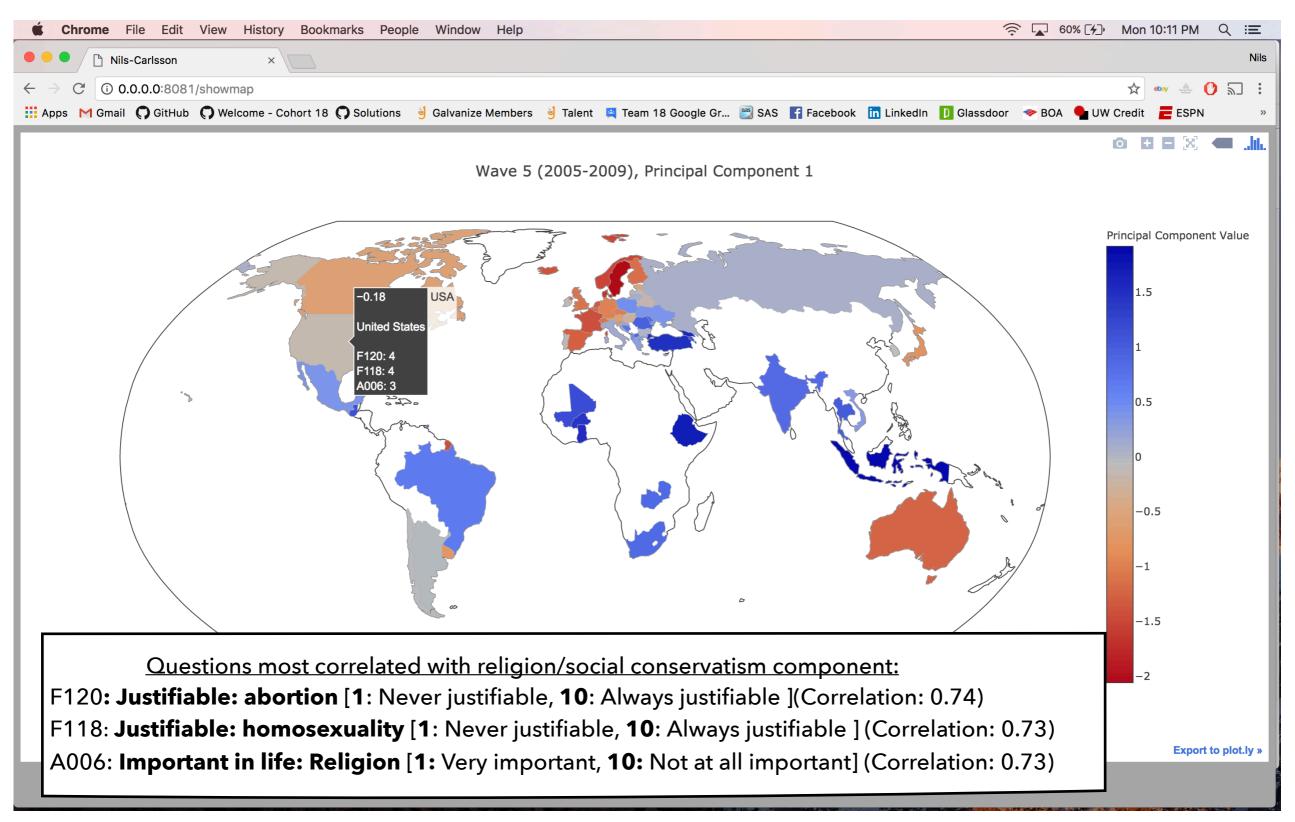
THE WORLD AND EUROPEAN VALUES SURVEYS: BRIEF OVERVIEW

- The World and European Values surveys: projects that examine values and beliefs on a global scale, beginning in 1981
- Participants asked questions that quantify religious, political, social attitudes
- Over 100 countries, 200 questions, and 500,00 individuals: a wealth of data!

RELIGION/SOCIAL CONSERVATISM AS MAIN DRIVERS OF VARIANCE

- Reduce dimensionality of dataset using Principal Component Analysis; separate by time period
- In every time period, first PC composed of: i. **religion** and ii. **social conservatism** (abortion, homosexuality, divorce)
- Sign of component is such that HIGHER values mean more religious/more conservative stance on social issues

APP SCREENSHOT - RELIGION/SOCIAL CONSERVATISM COMPONENT



FURTHER SPATIAL ANALYSIS

- Use clustering algorithm based on principal components rather than entirety of survey questions
- Cluster 1: PURPLE (highly non-religious/ liberal social view)
- Cluster 2: **GREEN** (highly religious / conservative social view)

 Estonia

Cluster 3: **ORANGE**(moderate)

rmenia

Macedonia

Belarus Latvia Hungary Slovakia
Ukraine Russia
Ey Lithuania Poland Chile
Bosnia Creatia Argentina

Moldova Croatia Romania

Serbia Serbia Montenegro Greece Mali Albania Bulgaria Montenegro Cyprus (G) Zambia

South Africa Trinidad and Tobago Brazil

Denmark Sweden Norway Uruguay Luxembourg Uruguay Luxembourg Andorra Spain Belgium Andorra FranceNetherlands Australia Finland Great Britain

Slovenia Switzerland

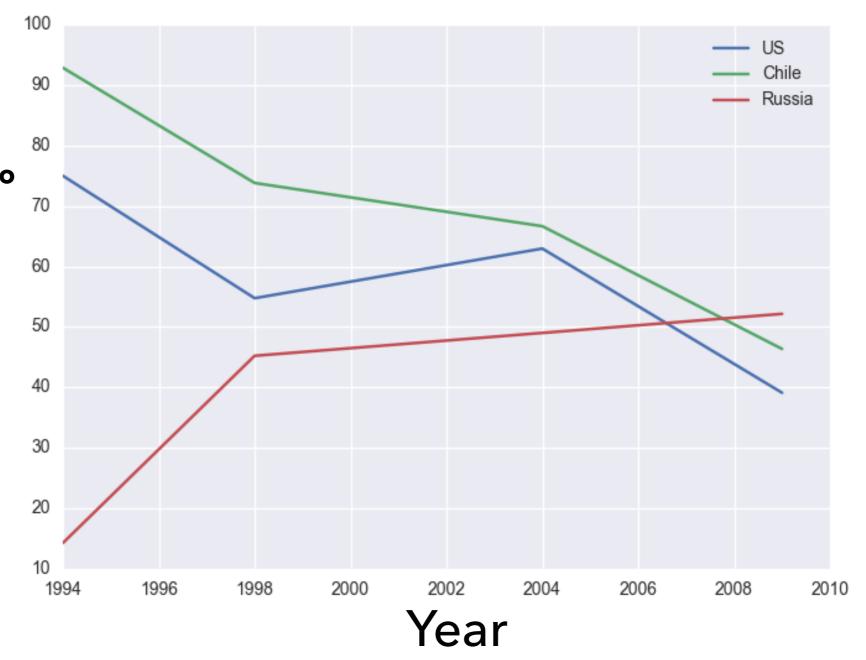
Germany Canada Czech Rep. Austria

United States Ireland North Ireland

TEMPORAL TRENDS

U.S., Russia, and Chile experience notable change

Percentile relative to other countries of religious/social conservatism component



FUTURE DIRECTIONS/TECHNOLOGY USED

- Include country meta-data (GDP, political landscape, historical events), tie to survey data
- Missing data input via matrix factorization
- New wave coming up! Will include as it becomes available
- <u>Technologies used:</u> Gephi, Plotly, Flask, R

Thanks!

Nils Carlsson



https://www.linkedin.com/in/carlssonnp



https://github.com/carlssonnp



carlssonnp@gmail.com