CONNOR GILROY

Computational sociologist & PhD candidate

🎓 EDUCATION

PhD, Sociology

expected 2023 | 2018

University of Washington   📍 Seattle, WA

Dissertation: "Expressions of Community: Understanding Variations in Community through LGBTQ Experiences." (proposal defended June 2022)

Committee: Kate Stovel (chair), Jelani Ince, Kyle Crowder, Mako Hill

Comprehensive Exam: "Community: Origins, Processes, and Consequences." Passed with distinction (June 2019) | reading list

Certificate: Special Concentration in Social Statistics (May 2019)

MA, Sociology

2018 | 2015

University of Washington   📍 Seattle, WA

Thesis: "How Distinct is Gay Neighborhood Change? Patterns and Variation in Gayborhood Trajectories." | full text

• Department of Sociology Outstanding Master's Thesis (2019)
• Graduate School Distinguished Thesis Award in Social Sciences (2019)

Committee: Kate Stovel (chair), Emilio Zagheni

BA, Biology and Geophysical Sciences

2013 | 2009

University of Chicago   📍 Chicago, IL

Minor: Gender and Sexuality Studies

📖 PUBLICATIONS

2021

Digital Traces of Sexualities: Understanding the Salience of Sexual Identity through Disclosure on Social Media

Gilroy, Connor and Ridhi Kashyap. *Socius* 7: 1–18. doi: 10.1177/23780231211029499
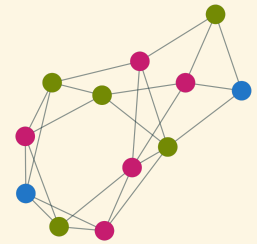
2020

Measuring the Predictability of Life Outcomes with a Scientific Mass Collaboration

Salganik, Matthew J., Ian Lundberg, Alexander T. Kindel, [and 109 others, including **Connor Gilroy**]. *Proceedings of the National Academy of Sciences* 117(15):8398–8403. doi: 10.1073/pnas.1915006117

2019

Humans in the Loop: Incorporating Expert and Crowdsourced Knowledge for Predictions using Social Survey Data

Filippova, Anna, **Connor Gilroy**, Ridhi Kashyap, Antje Kirchner, Allison C. Morgan, Kivan Polimis, Adaner Usmani, and Tong Wang. *Socius* 5: 1–15. doi: 10.1177/2378023118820157. (corresponding author)

CONTACT

✉ cgilroy@uw.edu
🌐 ccgilroy.com
⌨ github.com/ccgilroy
🐦 @ccgilroy
in ccgilroy
📞 731-225-0001

SKILLS

Programming: R, Python, Stan, SQL

Data science:

• **Data collection:** webscraping and crawling, geocoding, APIs (US Census, social media)
• **Databases:** Hive and PostgreSQL
• **Surveys:** stratified survey design and weighting
• **Statistical modeling:** GLMs, hierarchical models, regularized regression, random forets, Bayesian statistics
• **Text analysis:** topic modeling, word embeddings
• **Data visualization:** ggplot2, matplotlib, shiny

Language: English (native), Spanish (advanced), Japanese (advanced), French (intermediate)

*This CV was made with the R package **pagedown**.*

Last updated on 2023-01-04.

📖 WORK IN PROGRESS

- How Distinct is Gay Neighborhood Change? Patterns and Variation in Gayborhood Trajectories

- Geography or Gemeinschaft? Disentangling the meaning of "community" through word embeddings

- Density, diversity, culture: How place characteristics shape individual sense of community for LGBTQ people

- Social Structure and Change in Public Opinion: The Case of Same-Sex Marriage

  With Katherine Stovel. Invited book chapter for *Architecture of the Social*, Peter Hedström and Petri Ylikoski, editors. *draft submitted September 2016*

🖥 RESEARCH EXPERIENCE

2022

Data Science intern
Meta   📍 Seattle, WA
- Analyzed feed engagement with reshared Groups content | R, SQL
- Built a data pipeline to create a new experimental metric | Python, SQL
- Reanalyzed a collection of experiments to quantify tradeoffs between types of content | R, SQL

Analyzed feed engagement with reshared Facebook Groups content, presented insights to the Director of Data Science for Communities, built a data pipeline to create a new metric, reanalyzed a collection of experiments to quantify tradeoffs between types of content, and launched a new experiment to assess incremental value of reshared content (2022, Communities Ecosystem team)

2021
|
2020

Graduate Research Assistant
University of Washington   📍 Seattle, WA
(with Zack Almquist)

- Text and network analysis of Twitter data from homeless care organizations | R, SQL
- Built a web crawler and a PostgreSQL database to scrape and store text data from nonprofit and government webpages | Python, SQL

2021,
2020

User Experience Research Intern
Facebook   📍 Seattle, WA
- Designed, fielded, and analyzed a complex stratified survey of job seeker needs and satisfaction; wrote a widely-referenced technical guide to creating inverse probability weights for nonresponse using an internal Python tool; evaluated quality of an external vendor's missing data imputation for a sensitive survey question (2021, Commerce Ecosystem team)
- Designed and conducted two studies (log data analysis with random forest models, behaviorally-targeted followup survey) of factors driving initial participation in new online communities (2020, Community Creation team)

2020

Consultant, Survey Data Analysis
The World Bank Group   📍 Washington, DC
- Statistical modeling and visualization of gender-based disparities in Central Asia; wrote reproducible R pipeline for updating reports with new waves of survey data (with Stephen Winkler, supervisor Audrey Sacks) | story based on analysis

2018
|
2015

Graduate Research Assistant
University of Washington   📍 Seattle, WA
• Agent-based network models of public opinion change (with Katherine Stovel)

🖥 TEACHING EXPERIENCE

Instructor
University of Washington   📍 Seattle, WA
• SOC 225: Data and Society (2018, 2019) | syllabus, lab materials

Graduate Teaching Assistant
University of Washington   📍 Seattle, WA
Undergraduate:

• SOC 316: Sociological Theory (2019)
• SOC 225: Data and Society (2018)
• SOC 401 A: Data Science and Population Processes (2017)
• SOC 351: Intimate Relationships (2016)

Graduate:

• SOC 504, 505, 506: Social Statistics (2019-2020, 2022-2023)
• CSSS 564: Bayesian Statistics for the Social Sciences
  (2018, 2019) | lab materials

Workshops and lectures

• **Instructor** (with Sandeep Soni), Comparing Word Embedding Models
  NLP+CSS 201 Tutorials (2021) | materials, recording
• **Instructor**, Workshop on Word Embeddings for the Social Sciences
  Computational Social Science reading group, Sociologists of Digital Things
  (2021) | materials
• **Guest Lecturer**, Demography and Data Science
  CSSS 563: Statistical Demography (Instructor: Adrian Raftery), University of
  Washington
  (2020, 2021) | lecture materials, lab materials
• **Instructor**, Introduction to tidycensus (with Neal Marquez)
  Computational Demography Working Group, Center for Studies in Demography
  and Ecology, University of Washington
  (2020) | materials
• **Organizer**, Seattle partner location for the Summer Institute in Computational
  Social Science (SICSS-Seattle) (with Bernease Herman)
  eScience Institute, University of Washington
  (2018) | website
• **Facilitator**, IUSSP Training workshop on Social Media, Big Data and Digital
  Demography (with Emilio Zagheni)
  Side meeting at the International Population Conference, Cape Town
  (2017) | materials

🖥 OTHER WORK EXPERIENCE

2015
|
2013

Quality Assurance
Epic Systems Corporation   📍 Verona, WI
• Automated and manual software testing

💬 CONFERENCE PRESENTATIONS

2022

Density, Diversity, Culture: How Place Characteristics Shape Individual Sense of Community for LGBTQ People

Annual Meeting of the American Sociological Association   📍 Los Angeles, CA

Community and Urban Sociology Section Section, "Queer Placemaking Beyond the Gayborhood"

2021

Geography or Gemeinschaft? Disentangling the Meaning of "Community" through Word Embeddings

Annual Meeting of the American Sociological Association   📍 Virtual

Sociology of Culture Section Roundtable Session, "Meaning and Metaphor"

2019

Digital Traces of Sexualities: How Patterns of Social Media Disclosure Can Extend the Demography of Sexuality

Annual Meeting of the American Sociological Association   📍 New York, NY

Regular session, "Sexualities I: Measuring Continuity and Change in Sexualities"

2018

How Distinct is Gay Neighborhood Change? Patterns and Variation in Gayborhood Trajectories

Annual Meeting of the American Sociological Association   📍 Philadelphia, PA

Special session on "The Social and Cultural Construction of Places"

2018

Power in the Pipeline? Queer Accountability and the Ethics of Data Processing

ASA Sexualities Section Preconference   📍 Philadelphia, PA

"Methodologically Queer" panel

2018

Extending the Demography of Sexuality with Digital Trace Data

Population Association of America Annual Meeting   📍 Denver, CO

Session on Families, Social Media, and Technology

2017

Social Movement Framing in the Media: The Case of Recent Anti-LGBT Legislation in the United States

Annual Meeting of the American Sociological Association   📍 Montréal, QC, Canada

Sociology of Sexualities Roundtable Session