

COURTNEY PAGE-TAN, PH.D.

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CURRENT POSITION

Assistant Professor of Human Resilience, 2020 - Present
Embry-Riddle Aeronautical University - Worldwide

EXPERIENCE

Postdoctoral Fellow in Computational Social Science, 2019 – 2020
The Quantitative Analysis Center, Wesleyan University

Teaching/Research Assistant to Professor Daniel Aldrich, Department of Political Science, Northeastern University 2015 –2019

Principal Investigator, Commissioned Report for Cambridge Mayor's Special Advisory Committee on Neighborhood-Based Resiliency 2017 – 2019

Research Assistant, DHS Regional Resiliency Assessment Program Grant 2017

Independent Instructor, Department of Political Science, Purdue University 2015

Teaching Assistant, Department of Political Science, Purdue University 2014 –2015

Research Assistant, Mellon Challenge Exploratory Grant 2015

Adjunct Professor, Department of Political Science, Seton Hall University 2014

Global Health Governance Intern, Council on Foreign Relations 2013

Human Resources Intern, British Embassy 2012

Graduate Assistant, School of Diplomacy and International Relations, Seton Hall University 2011 –2013

EDUCATION

Ph.D., Political Science, Department of Political Science, Northeastern University May 2019
Advisor: Daniel Aldrich, Ph.D.
Major Field: Public Policy, Minor Field: International Relations
Dissertation Title: “The Strength of Hyperlocal Ties”

M.A., Diplomacy and International Relations, School of Diplomacy & International Relations, Seton Hall University December 2013
Advisor: Martin Edwards, Ph.D.
Major Fields: International Organizations and Global Health and Human Security

M.P.A., Department of Political Science, Seton Hall University December 2013
Advisor: Matthew Hale, Ph.D.
Major Fields: Public Service, Leadership, Governance and Policy

B.S., Political Science and International Relations, Department of Political Science, Indiana Wesleyan University April 2008

REFEREED ARTICLES AND BOOK CHAPTERS

Bonding, bridging, and linking social capital and social media use: How hyperlocal social media platforms serve as a conduit to access and activate bridging and linking ties in a time of crisis. (*in press*) *Natural Hazards*.

The role of social media in disaster recovery following Hurricane Harvey. (2020) *Journal of Homeland Security and Emergency Management*.

- Oasis of resilience? An empirical investigation of rainwater harvesting systems in high poverty, peripheral communities (2020) *Economics of Disasters and Climate Change* (with Daniel Aldrich)
- A Janus-faced resource: Social capital and resilience trade-offs. (2018) in Marie-Valentine Florin, Igor Linkov and Benjamin Trump, eds., *IRGC Resource Guide on Resilience*. Lausanne: EPFL International Risk Governance Center. (with Daniel Aldrich and Timothy Fraser).
- Social capital and natural hazards governance. (2018) *Oxford Research Encyclopedia of Natural Hazard Science* (with Daniel Aldrich and Michelle Meyer).
- Social capital and participation in climate change adaptation. (2016) *Climate Science: Oxford Research Encyclopedias*. (with Daniel Aldrich and Christopher Paul).
- International actors leading in relief efforts: 2004 Indian Ocean Tsunami aid assessment. (2009) *Asian Politics and Policy*, 1(3) 435–462.

ARTICLES UNDER REVIEW

- Bowling Alone or Masking Together? The Role of Social Capital in Excess Death Rates from COVID19 (with Timothy Fraser and Daniel P. Aldrich). *Under review at the Proceedings of the National Academy of Sciences of the United States of America*
- Disaster recovery and social media use: An analysis of Facebook, Twitter, and Nextdoor use in Houston following Hurricane Harvey. *Under review at The International Journal of Disaster Risk Reduction (IJDRR)*
- Building hyperlocal ties: The role of the local built environment in building hyperlocal bridging social capital in Cambridge, MA. *Under review at Cities*

INVITED TALKS

- How hyperlocal social media fueled rebuilding after hurricane harvey (November 2019) *Wesleyan University GIS Day*. Middletown, CT.
- The driving force behind Houston Resilience following Hurricane Harvey: Social media's role in post-disaster recovery. (October 2019) *New England Analysts' Roundtable*. Hartford, CT
- How online social media platforms promote climate change literacy (March 2019). ISeeChange Staff Brown Bag
- How social networks transform during a disaster. (May 2018) FEMA Integrated Public Alert & Warning System Working Group 2 - Public Needs.
- Social capital and community resilience. (May 2017) Cambridge Mayor's Special Advisory Committee on Neighborhood-Based Resilience. Cambridge, MA

WRITINGS FOR GENERAL AUDIENCE

- "Why social media apps should be in your disaster kit." (with Daniel Aldrich) (2017) *The Conversation*.
- "Financing the health-related millennium development goals." (with Yanzhong Huang) (2014) *Global Health Governance*
- "Impact investing and global health: The future of global health financing?" (2013) *Global Health Governance*.

TECHNICAL REPORTS AND BOOK CHAPTERS

- Mapping resilience: GIS techniques for disaster studies (*forthcoming*) in Jason D. Rivera, ed., *Research Methods of Disaster and Emergency Management: Approaches in Application*. Routledge. (with Daniel Aldrich and Timothy Fraser).

- Techniques for social network analysis for disaster evacuation, recovery, and response (*forthcoming*) in Jason D. Rivera, ed., *Research Methods of Disaster and Emergency Management: Approaches in Application*. Routledge. (with Daniel Aldrich and Timothy Fraser).
- Social Ties, Quarantine Policy, and the Spread of COVID19 (2020). Quick Response Report. Natural Hazards Center: University of Colorado-Boulder (with Daniel P. Aldrich, Timothy Fraser, Juheon Lee, and Toshiaki Yoshida)
- "Cambridge community assessment." (2018) *Commissioned Report for Cambridge Mayor's Special Advisory Committee on Neighborhood-Based Resiliency*
- "The power of social media: How online connections expedited public services following hurricane harvey" (2018) *Quick Response Report*. Natural Hazards Center: University of Colorado-Boulder

CONFERENCE PAPERS

- "A mixed-methods analysis of local, state, and federal information sources and media modalities in the early months of the COVID-19 pandemic: How Dr. Anthony Fauci became our trusted national expert on slowing and stopping the spread" Paper to be presented at the Southern Political Science Association Annual Conference, Virtual.
- "Interdisciplinary Disaster Research is not a Disaster: A comparative analysis of interdisciplinary teams in virtual environments" Paper to be presented at the Southern Political Science Association Annual Conference Conference Within A Conference, Virtual (with Tanya Corbin and Chelsea LeNoble)
- "Disaster recovery and social media use: An analysis of Facebook, Twitter, and Nextdoor use in Houston following Hurricane Harvey." Paper presented at the 2020 American Political Science Association Conference, Virtual
- "If you built it within a half mile, they will come: Building hyperlocal bridging social capital." Paper presented at the 2019 International Studies Association Conference, Toronto
- "Social capital: Unpacking how it supports resilience, and how it can be strengthened." Paper presented at the Resilience Measurement, Evidence and Learning Conference 2018, New Orleans
- "A new era of disaster response: How social media is changing top-down approaches." Paper presented at the 2018 American Political Science Association Conference, Boston
- "An examination of countries with voluntary political party and institutionalized legislative gender quotas." Poster presented at the 2017 International Cartographic Conference, Washington, D.C. (with Bahare Sanaie-Movahed).
- "Estimating social media effects on neighborhood resiliency." Paper presented at the 2017 Midwest Political Science Association Annual Conference, Chicago (with Daniel Aldrich).
- "Social and transportation networks in the 2015 Boston Snowmageddon." Paper presented at the 2017 Boston Area Research Initiative Conference, Boston (with Daniel Aldrich).
- "Social capital and shared identities as determinants of international disaster aid: 2000-2013." Paper presented at the 2015 Midwest Political Science Association Annual Conference, Chicago
- "Norm internalization: The case for disaster risk reduction." Paper presented at the 2013 Midwest Political Science Association Annual Conference, Chicago
- "Why states prepare for natural disasters: Implementation of the Hyogo Framework for Action 2005-2015." Paper presented at the 2013 International Studies Association Annual Conference, San Francisco
- "International actors leading in relief efforts: 2004 Indian Ocean Tsunami aid assessment." Paper presented at the 2008 Midwest Political Science Association Annual Conference, Chicago

CONSULTING

UNDP - Mexico	2020 - Present
UNDP - Paraguay	2020 - Present
ISeeChange	2019 - Present

TEACHING

Introduction to Human Security	Embry-Riddle Aeronautical University - Worldwide
Research Methods	Embry-Riddle Aeronautical University - Worldwide
Applied Data Analysis	Wesleyan University
Social Capital and Resilience	Northeastern University
Resilient Cities	Northeastern University
American Government	Purdue University
Introduction to International Relations	Purdue University
US Politics and the Media	Purdue University
Western Political Thought	Seton Hall University

SELECTED HONORS, GRANTS, AND FELLOWSHIPS

Quick Response Grant , Natural Hazards Center, University of Colorado Boulder (with Daniel P. Aldrich, Timothy Fraser, Juheon Lee, and Toshiaki Yoshida)	2020
Postdoctoral Fellow in Computational Social Science , The Quantitative Analysis Center, Wesleyan University	2019 - Present
Research Fellow , Aldrich Resilience Lab, Northeastern University	2019 - Present
Quick Response Grant , Natural Hazards Center, University of Colorado Boulder	2017
Open Science for Synthesis Gulf Research Program Training , National Center for Ecological Analysis and Synthesis, University of California Santa Barbara	2017
Graduate Student Research and Experiential Learning Grant , Northeastern University	2016
Summer's Family Military and First Responders Scholarship	2012-2013
Salgo Noren Foundation Summer Internship Grant	2012

PROFESSIONAL AND UNIVERSITY SERVICE ACTIVITIES

Manuscript Reviewer for <i>Journal of Contingencies and Crisis Management</i> and <i>Journal of Management in Engineering, Natural Hazards, International Journal of Disaster Risk Reduction</i>	Ongoing
Lab Manager , Aldrich Resilience Lab, Northeastern University	2019 - Present
Newsletter Layout Manager , APSA Science, Technology & Environmental Politics Section	2018 - Present
Managing Editor , Global Health Governance, The School of Diplomacy & International Relations	2014 - Present
Committee Member , School Grievance Committee, The School of Diplomacy & International Relations	2013
Board Member , The School of Diplomacy & International Relations Board of Overseers	2013
Advisory Member , TEDx SHU Speakers Committee	2012-2013

TRAINING AND CERTIFICATIONS

University of California Santa Barbara, *National Center for Ecological Analysis and Synthesis*, 2017
Open Science for Synthesis Gulf Research Program Training

Harvard University, *Center for Geographic Analysis*, GIS for the Humanities and Social Sciences Workshop 2015

ESRI 2015 - Present

- *ArcGIS II: Essential Workflows*
- *ArcGIS III: Performing Analysis*
- *Network Analysis Using ArcGIS*
- *Python Scripting for Map Automation*
- *Python Scripting for Geoprocessing Workflows*
- *Basics of Python (for ArcGIS 10)*
- *Regression Analysis Using ArcGIS*
- *Solving Spatial Problems Using ArcGIS*
- *Performing Spatial Interpolation with ArcGIS*
- *Distance Analysis Using ArcGIS*
- *Creating Prediction Surfaces in ArcGIS*
- *Exploring Spatial Patterns in ArcGIS*

DataCamp 2019 - Present

- *Intro to SQL for Data Science*
- *Spatial Analysis in R with sf and raster*
- *Introduction to the Tidyverse*
- *Data Visualization with ggplot2 (Part 1)*

SOFTWARE & PROGRAMMING LANGUAGES

- STATA
- SPSS
- R Studio
- Gephi
- ArcGIS Desktop
- ArcGISPro
- qGIS
- Geoda
- Adobe Illustrator
- Adobe Photoshop
- Adobe Animate
- Adobe InDesign
- R
- SQL
- Python

PROFESSIONAL MEMBERSHIPS

- American Political Science Association
- International Studies Association
- Midwest Political Science Association
- Midwest Political Science Association
- Pi Alpha Alpha Honor Society
- American Association of Geographers