

# TED HSUAN YUN CHEN

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## CONTACT

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## ACADEMIC POSITIONS

Postdoctoral Researcher, Faculty of Social Sciences, University of Helsinki, 2019–  
Postdoctoral Researcher, Department of Computer Science, Aalto University, 2019–

## AFFILIATIONS

Helsinki Institute of Sustainability Science, University of Helsinki, 2020–  
Climate Social Science Network, Brown University, 2021–

## EDUCATION

Ph.D. Political Science, Pennsylvania State University, 2019  
Dissertation: *Multilayer Networks in Political Science: Development and Applications of Novel Methods for International Cooperation and Conflict*.  
Committee: Bruce Desmarais (chair), Xun Cao, Diane Felmlee, and Douglas Lemke  
M.A. Asia Pacific Policy Studies, University of British Columbia, 2012  
B.A. Sociology, McGill University, 2009

## PUBLICATIONS

### PEER-REVIEWED JOURNAL ARTICLES

**Ted Hsuan Yun Chen**, Ali Salloum\*, Antti Gronow, Tuomas Ylä-Anttila, and Mikko Kivelä. 2021. “Polarization of Climate Politics Results from Partisan Sorting: Evidence from Finnish Twitter-sphere.” *Global Environmental Change* 71: 102348.

**Ted Hsuan Yun Chen** and Chung-li Wu. 2021. “The Elephant in the Voting Booth?: Assessing the Effect of the 2005 Taiwanese Electoral Reform in Reducing Vote-Buying and Local Factional Politics.” *Asian Survey* 61(4): 641-662.

Christian S. Schmid, **Ted Hsuan Yun Chen**, and Bruce A. Desmarais. 2021. “Generative Dynamics of Supreme Court Citations: Analysis with a New Statistical Network Model.” *Political Analysis* 1-20 (online first).

Yan Xia\*, **Ted Hsuan Yun Chen**, and Mikko Kivelä. 2021. “Spread of Tweets in Climate Discussions: A Case Study of the 2019 Nobel Peace Prize Announcement.” *Nordic Journal of Media Studies* 3: 96-117.

**Ted Hsuan Yun Chen**. 2021. “Statistical Inference for Multilayer Networks in Political Science.” *Political Science Research and Methods* 9(2): 380-397.

**Ted Hsuan Yun Chen**, Tzu-Ping Liu, and Chung-li Wu. 2014. “Policy-Balancing and Ticket-Splitting: Problems with “Preference for Checks and Balances” in Taiwanese Electoral Studies.” *Japanese Journal of Political Science* 15(2): 317-337.

Justine Chen, **Ted Hsuan Yun Chen**, Ilan Vertinsky, Lilia Yumagulova, and Chansoo Park. 2013. “Public-Private Partnerships for the Development of Disaster Resilient Communities.” *Journal of Contingencies and Crisis Management* 21(3): 130-143.

PEER-REVIEWED PROCEEDINGS

Ali Salloum\*, **Ted Hsuan Yun Chen**, and Mikko Kivelä. Forthcoming. “Separating Polarization from Noise: Comparison and Normalization of Structural Polarization Measures.” *Proceedings of the ACM on Human-Computer Interaction (CSCW)*.

Mitchell Goist, **Ted Hsuan Yun Chen**, and Christopher Boylan. 2019. “[Reconstructing and Analyzing the Transnational Human Trafficking Network](#).” *Proceedings of the 2019 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*.

**Ted Hsuan Yun Chen**, Paul Zachary, and Christopher J. Fariss. 2017. “[Social Activity Hubs: Estimating User Specific Contextual Factors From Social Media Data](#).” *Proceedings of the 2017 International Conference of The Computational Social Science Society of the Americas*.

OTHER PUBLICATIONS (TECHNICAL REPORTS, POLICY BRIEFS, BOOK CHAPTERS)

Yan Xia\*, Antti Gronow, Anna Kukkonen, **Ted Hsuan Yun Chen**, and Mikko Kivelä. [Botit ja informaatiovaikuttaminen Twitteriss vuoden 2021 kuntavaaleissa - ELEBOT-2021-hanke](#). [Bots and information advocacy on Twitter in the 2021 municipal elections.] Aalto University.

**Ted Hsuan Yun Chen** and Chung-li Wu. 2016. “Cross-Strait Relations as an ‘Easy Issue’: China’s Impact on Evidence Provision in Negative Political Campaigning in Taiwan.” In *Taiwan and the ‘China Impact’: Challenges and Opportunities*, ed. Gunter Schubert, Oxon, UK: Routledge.

**Ted Hsuan Yun Chen**. Sept. 9 2010. “Analysis of the Cross-Strait Economic Cooperation Framework Agreement between Taiwan and China.” *Asia Pacific Memo* #19.

**WORKING PAPERS**

**Ted Hsuan Yun Chen** and Boyoon Lee. “[Income-based Inequality in Post-disaster Migration is Lower in High Resilience Areas: Evidence from U.S. Internal Migration](#).” *Revise and Resubmit at Environmental Research Letters*

**Ted Hsuan Yun Chen**, Paul McLachlan, and Christopher J. Fariss. “[Exposure to Discretionary Arrests increases Support for Anti-Police Protests](#).” *Under Review*

Yan Xia\*, **Ted Hsuan Yun Chen**, and Mikko Kivelä. “[Applicability of Multilayer Diffusion Network Inference to Social Media Data](#).” *Under Review*

**Ted Hsuan Yun Chen**, Christopher J. Fariss, and Xu Xu. “Exposure to Natural Disasters Mobilizes Voting: Evidence from Hurricane Harvey in Houston.”

**Ted Hsuan Yun Chen**. “Informal Diplomacy Reinforces Formal International Cooperation: Evidence from Track Two Diplomacy.”

**Ted Hsuan Yun Chen**. “Transnational Scientific Communities Facilitate Cooperation in the International Nuclear Regime: Evidence from the Pugwash Movement.”

**IN PROGRESS**

“Climate Activism in Polarized Networked Communities: A Social Network Experiment.” (With M. Kivelä, T. Nurmi\*, V. Saarinen\*, and T. Ylä-Anttila)

“Do Social Movements Adapt to Offline Repression by using Social Media? Evidence from Police Repression of Climate Protesters in Finland.” (With V. Saarinen\* and S. Savolainen\*)

“Modeling Belief Systems Surrounding Fairness in Climate Migration.”

“Identifying Subgraphs and Seed Nodes for Network Diffusion Experiments.” (With M. Kivelä, T. Nurmi\*, and V. Saarinen\*)

“Disaster Experience and Climate Science Communication.” (With C.J. Fariss, H. Shin\*, and X. Xu)

“Combined Topic and Stance Detection Model for Climate Tweets.” (With H. Celikkanat, M. Kivelä, T. Ylä-Anttila, and Y. Xia\*)

## TEACHING & MENTORSHIP

### COURSE INSTRUCTOR

- Global Climate Governance (Graduate, University of Helsinki), Spring 2021, Spring 2022
- Applied Data Science for Policy Research (Graduate, Aalto University), Spring 2021
- Collecting and Analyzing Social Media Data (Graduate, Aalto University), Winter 2019
- Political Assassinations (Undergraduate, Penn State), Spring 2018, Spring 2019

### MASTER’S THESIS SUPERVISION

- Anniina Penttilä. In progress. M.A. University of Helsinki.
- Ville Saarinen. In progress. M.Sc. Aalto University.
- Rico Pircklén. 2021. *Quantification of Change in Online Activity Patterns through the Course of the COVID-19 Pandemic*. M.Sc. Aalto University.
- Yan Xia. 2021. *Inferring Multilayer Spreading Networks in Online Social Media*. M.Sc. Aalto University.
- Ali Salloum. 2021. *Quantifying Polarization in Social Networks*. M.Sc. Aalto University.

### CURRICULUM DEVELOPMENT

- Global Climate Governance (Graduate, University of Helsinki), Full Course
- Applied Data Science for Policy Research (Graduate, Aalto University), Full Course
- Collecting and Analyzing Social Media Data (Graduate, Aalto University), Section
- Political Assassinations (Undergraduate, Penn State), Full Course
- Advanced Research Design (Undergraduate, Penn State), Full Course

### OTHERS

- Exponential Family Random Graph Modeling with R, Workshop Instructor, Political Networks Conference, Jun 2021
- CodeRefinery Workshop on Scientific Computing, Exercise Leader, May 2021
- Introduction to International Relations (Undergraduate, Penn State), Teaching Assistant for E. Henderson, Fall 2014, Fall 2017
- Teacher at Kaplan Test Prep (Vancouver, Canada), 2009–2010

## SOFTWARE

**Ted Hsuan Yun Chen** [aut, cre]. 2021. *multilayer.ergm: Exponential Random Graph Models for Multilayer Networks*. R package v0.2.1. [github.com/tedhchen/multilayer.ergm](https://github.com/tedhchen/multilayer.ergm)

Christian S. Schmid [aut, cre], **Ted Hsuan Yun Chen** [aut], and Bruce A. Desmarais [aut]. 2020. *cERGM: A package to fit citation Exponential Random Graph Models*. R package v1.0.0. [github.com/schmid86/cERGM](https://github.com/schmid86/cERGM)

## GRANTS & AWARDS

### GRANTS

2022-2023. HELSUS Postdoctoral Researcher Funding: *Modeling Belief Systems Surrounding Fairness in Climate Migration Using Network Science*. Helsinki Institute of Sustainability Science, University of Helsinki. Principal Investigator. €120,000.

2021 HSSH Research Group Funding: *Crowdsourced Labelling for Climate Tweets*. Helsinki Institute for Social Sciences and Humanities, University of Helsinki. Principal Investigator, with Co-PIs H. Celikkanat and T. Ylä-Anttila. €10,000.

2018-2021 RAPID: *Quasi-Experiment on the Effect of Disaster-induced Displacement* (SES: 1760644), National Science Foundation (US). Participating Investigator, with Principal Investigator C.J. Fariss (University of Michigan). \$92,681.

2019 RGSO Dissertation Support. College of the Liberal Arts, Pennsylvania State University. \$5,000.

2016 Summer Graduate Research Award. Department of Political Science, Pennsylvania State University. \$3,500.

2014 Summer Graduate Research Award. Department of Political Science, Pennsylvania State University. \$3,500.

#### AWARDS

2021 Best Conference Paper Award ("Polarization of Climate Politics Results from Partisan Sorting: Evidence from Finnish Twittersphere"). Political Networks Section, American Political Science Association.

2019 Jesse M. MacKnight Memorial Graduate Scholarship. Department of Political Science, Pennsylvania State University. \$1,500.

2016-2017 Program in Empirical International Relations Predoctoral Research Fellowship. Department of Political Science, Pennsylvania State University.

2015 Peter Schallmoser Award. Department of Political Science, Pennsylvania State University. \$2,500.

#### **TALKS**

##### INVITED TALKS

"Activism and Contestations over Climate Politics in Online Space." Helsinki Institute for Social Sciences and Humanities Interdisciplinary Brown Bag, Online, Nov 2021.

"Twitter Data for Climate Governance Research: Overview and Examples." Comparing Climate Change Policy Networks Meeting, Online, May 2021.

##### RECENT CONFERENCE PARTICIPATION

"Do Social Movements Adapt to Offline Repression by using Social Media? Evidence from Police Repression of Climate Protesters in Finland." (With V. Saarinen and S. Savolainen.)

- European Consortium for Political Research General Conference, Online, Aug 2021.
- Political Networks Conference, Online, Jul 2021.

"Does the Perceived Threat of Extreme Weather Drive Internal Migration? Evidence from U.S. National and State Levels." (With B. Lee.)

- American Political Science Association Annual Meeting, Seattle, Sep 2021.
- European Consortium for Political Research General Conference, Online, Aug 2021.
- Political Networks Conference, Online, Jul 2021.

"Polarization of Climate Politics Results from Partisan Sorting: Evidence from Finnish Twittersphere." Political Communication Networks, Netsci2020 Satellite Workshop, Online, Sep 2020.

"Polarization of Climate Change Politics During Finland's 2019 Parliamentary Elections: Evidence from Twitter." (With A. Gronow.) Workshop on Comparing Climate Change Policy Networks, University of Bern, Oct 2019.

"Reconstructing and Analyzing the Transnational Human Trafficking Network." (With M. Goist and C. Boylan.) IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, Vancouver, Aug 2019.

“Transnational Scientific Communities Facilitate Cooperation in the International Nuclear Regime: Evidence from the Pugwash Movement.”

- Society for Political Methodology Meeting, MIT, Jul 2019.
- Political Networks Conference, Duke University, Jun 2019.
- International Studies Association Convention, Toronto, Apr 2019; San Francisco, Apr 2018.

“The Effect of Disaster-induced Displacement on Social Behaviour: The Case of Hurricane Harvey.”

- Midwest Political Science Association Convention, Chicago, Apr 2019.
- Toronto Political Behaviour Workshop, Toronto, Sep 2018.

“Inferential Analysis of the Supreme Court Citation Network.” (With C. Schmid and B. Desmarais.) American Political Science Association Meeting, Boston, Aug 2018.

“Statistical Inference for Multilayer Networks in Political Science.”

- Society for Political Methodology Meeting, Brigham Young University, Jul 2018.
- Political Networks Conference, George Mason University, Jun 2018.

“Social Activity Hubs: Estimating User Specific Contextual Factors from Social Media Data.” (With P. Zachary and C.J. Fariss.) International Conference of the Computational Social Science Society of the Americas, Santa Fe, Oct 2017.

## SERVICE

### EXTERNAL

Journal Reviewer: *American Journal of Political Science*, *Public Opinion Quarterly*, *Social Networks*

Program Committee Member:

- Political Networks Conference 2021
- Advances in Social Network Analysis and Mining (Multidisciplinary Track) 2020

### INTERNAL

- Master’s Thesis Grader, 2020, 2021, Faculty of Social Sciences, University of Helsinki
- Graduate Mentor, 2017-2018, Department of Political Science, Penn State
- Graduate Recruitment Panel, 2016, 2017, Department of Political Science, Penn State
- Graduate Exhibition Judge, 2015, Penn State
- Graduate Conference Organizing Committee, 2010, Institute of Asian Research, UBC

## SKILLS & LANGUAGES

Software and Programming: R, Python, Git,  $\LaTeX$

Languages: English, Mandarin Chinese

Last updated December 20, 2021.