

Yuan Hsiao
Ph.D. candidate, Department of Sociology
Master's student, Department of Statistics

Contacts

University of Washington
Department of Sociology
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Education

2016-
Master's student, Statistics, University of Washington, Seattle, WA

2015-
Doctoral Student, Sociology, University of Washington, Seattle, WA

*Dissertation Committee: Steven Pfaff (chair), Katherine Stovel,
Emilio Zagheni, Jevin West*

2013-2015
Master of Arts, Sociology, University of Washington, Seattle, WA
*Thesis title: Social media and collective action participation:
A socio-psychological investigation*

Committee: Steven Pfaff, Ross Matsueda, Philip Howard

*Thesis received UW Graduate School Distinguished Thesis Award
Thesis received UW Sociology Best Master's Thesis Award*

2006-2010
Bachelor of Arts, Sociology, National Taiwan University, Taipei, Taiwan

Specialization Certificates

Certificate on Concentration in Social Statistics, Center for Statistics and the Social Sciences, University of Washington

Certificate on Demographic Methods, Center for Studies in Demography and Ecology, University of Washington

Research Interests

Social networks, Social media, Collective action, Quantitative methods,
Demography

Scholarly Publications

(Mainly as social scientist or Mainly as statistician)

Hsiao, Yuan, Ching-Ling Cheng and Ya-Wen Chiu. 2019. "Gender Network Dynamics in Prosocial and Aggressive Behavior of Early Adolescents." *Social Networks* 58: 12-23. (Impact Factor at acceptance: 2.53)

Powell, Tara, Shang-Ju Li, **Yuan Hsiao**, Chloe Ettari, Anish Bhandari, Anne Peterson and Niva Shakya. Forthcoming. "Investigating the aftershock of a disaster: A study of health service utilization and mental health symptoms in post-earthquake Nepal." *International Journal of Environmental Research and Public Health*.
(Impact Factor at acceptance: 2.15)

Li, Zehang, **Yuan Hsiao**, Jessica Godwin, Bryan Martin, Jon Wakefield and Samuel Clark. 2019. "Changes in the Spatial Distribution of the Under Five Mortality Rate: Small-area Analysis of 136 DHS Surveys in 33 Countries in Africa and Asia." *PLoS One* 14(1). (Impact Factor at acceptance: 2.67)

Hsiao, Yuan. 2018. "Understanding digital natives in contentious politics: explaining the effect of social media on protest participation through psychological incentives." *New Media & Society* 20(9): 3457-3478.
(Impact Factor at acceptance: 4.18)

*Paper received UW Sociology Herbert L. Costner
best solo-authored paper award*

Hsiao, Yuan and Yunkang Yang. 2018. "Activists on the cloud? An empirical test on commitment for online and offline protest participants." *Information, Communication & Society* 21(7): 996-1013.
(Impact Factor at acceptance: 2.69)

Hsiao, Yuan. 2017. "Virtual ecologies, mobilization, and democratic groups without leaders: Impacts of internet media on the Wild Strawberry Movement." In Dafydd Fell (Ed.) *Taiwan's Social Movements under Ma Ying-jeou: From the Wild Strawberries to the Sunflowers* (pp. 34-53). New York: Routledge.

Hsiao, Yuan. 2011. "How the Internet Impacts Social Movements: A Case Study of the Taiwan Wild Strawberry Movement." *Taiwan Democracy Quarterly* 8 (3): 45-85.

Listed as required reading for multiple courses, including:

Social Movements, National Pingtung University, 2014
Medical Treatment and Society, National Tsing Hua University, 2014
The Theory of Research of Comparative Politics, Soochow University, 2013
Feminism & Social Movement, National Kaohsiung Normal University, 2013
Social Organizations, National Taiwan University, 2012
Civil Society, National Taipei University, 2012
Social Movements, National Taipei University, 2012

A Society of Taiwan, Tunghai University, 2012
Social Movements, National Taiwan University, 2011

Current Research

Major role as social scientist

Hsiao, Yuan. “Social Media, Networks and Activism: The interaction between structural network characteristics, network types, and activism forms in Black Lives Matter Sacramento.” Under review

Hsiao, Yuan and Steven Pfaff. “Oaths, CatNets, and insurgent strategy: The case of the Mau Mau Rebellion.” Under review

Hsiao, Yuan, Lee Fiorio, Jon Wakefield and Emilio Zagheni. “Combining Twitter data with official estimates to predict state-to-state migration rates in the US.” Research in development

Hsiao, Yuan. “Network configurations and mobilization power in Black Lives Matter Twitter networks: an Agent-Based Modeling approach.” Research in development

Major role as statistician

Chen, Fang-Yu, Chih-Hsin Sheen, **Yuan Hsiao** and Yi-Chun Chien. “Beyond the Ethno-cultural Chinese Nationalism: The Composition and Politicization Processes of Taiwanese National Identity.” Under review

Hsiao, Yuan and Scott Radnitz (equal authorship). “A survey experiment on strategies of protest and political speech using Amazon Mechanical Turk.” Research in development

Levero, John and **Yuan Hsiao.** “Networks of gangs on Facebook: the conditions for online gang antagonism.” Research in development

Fellowships

(2018) Research fellow, Lab of digital and computational demography, The Max Planck Institute for Demographic Research, Rostock, Germany

(2013-2014) Studying Abroad Scholarship, Ministry of Education, Taiwan

Statistical and programming consulting

(2018-present) Consultant, The Center for Social Science Computation and Research, University of Washington, WA, USA

(2018) Consultant, Departments of Biostatistics and Statistics consulting services, University of Washington, WA, USA

Research Skills

Statistical Skills

Sociological & Demographic Skills

Statistical Programming

R, STATA, Mplus, Python

Statistical Specialization

Social Network Analysis
 Big Data and Machine Learning
 Longitudinal / Multi-level Modeling
 Agent-Based Modeling
 Survey Design
 Structural Equation Modeling
 Spatial Statistics
 Bayesian Statistics
 Ordinary Least Squares
 Generalized Linear Models
 Survival Analysis

Statistical Courses

STAT 512 Statistical Inference
 STAT 513 Statistical Inference
 STAT 529 Sample Survey Techniques
 STAT 535 Statistical Learning
 STAT 548 Machine Learning for Big Data
 STAT 554 Statistical Methods for Spatial Data
 STAT 564 Bayesian Statistics for the Social Sciences
 STAT 566 Causal Modeling
 STAT 567 Statistical Analysis of Social Networks
 STAT 570 Advanced Regression Methods for Independent Data
 STAT 571 Advanced Regression Methods for Dependent Data
 CSSS 505 Review of Mathematics for Social Scientists
 CSSS 510 Maximum Likelihood Methods
 CSSS 512 Panel Data
 CSSS 526 Structural Equation Models
 CSSS 527 Survey Research Methods
 CSSS 569 Visualizing Data
 SOC 504 Social Statistics
 SOC 505 Social Statistics
 SOC 506 Quantitative Techniques in Sociology

Research Specialization

Social networks
 Digital media
 Collective action/social movements
 Demographic methods

Sociology & Demography Courses

SOC 508 Logic of Social Inquiry
 SOC 510 Seminar on Sociological Theory
 SOC 511 Classical Sociological Theory
 SOC 513 Demography and Ecology
 SOC 518 Stratification
 SOC 533 Research Methods in Demography
 SOC 539 Special Topics in Demography: Migration
 SOC 555 Qualitative Case-Based Research Methods
 SOC 581 Social Movements
 SOC 590 Sociology of Exchange
 SOC 590 Big Data and Population Processes
 SOC 590 Networks

Teaching
Teaching awards

(2018) Award for Best Teaching Assistant, Department of Sociology,
University of Washington

Courses taught for award:

(2018) CSSS 507/SOC 506: Quantitative Techniques in Sociology

(2018) SOC 505: Social Statistics

(2017) SOC 504: Social Statistics

Teaching experience

Teaching in Statistics

(2017) Instructor. CSSS 505: Review of Math for
Social Scientists, University of Washington

(2018) Teaching Assistant. CSSS 507/SOC 506:
Methodology: Quantitative Techniques in Sociology,
University of Washington

(2018) Teaching Assistant. SOC 505: Social
Statistics, University of Washington

(2017) Teaching Assistant. SOC 504: Social Statistics,
University of Washington

(2017) Teaching Assistant. CSSS 507/SOC 506:
Methodology: Quantitative Techniques in Sociology,
University of Washington

(2015) Teaching Assistant. Center for Statistics and
the Social Sciences Math Camp. University of
Washington (In charge of section on statistical
programming)

Teaching in Sociology

(2016) Teaching Assistant. SOC 331: Population and
Society, University of Washington

(2016) Teaching Assistant. SOC 292: Public Schools
in America, University of Washington

(2014) Teaching Assistant. SOC 316: Introduction to
Sociological Theory, University of Washington

(2015) Teaching Assistant. SOC 222: Sociology of
Sport, University of Washington

(2014) Teaching Assistant. SOC 110: Survey of
Sociology, University of Washington

(2014) Teaching Assistant. SOC 371: Criminology,
University of Washington

Invited Talks

(2018) “Combining Twitter data with official estimates to predict state-to-
state migration rates in the US.” The Max Planck Institute for Demographic
Research, Rostock, Germany

(2018) “Social Media, Social Networks, and Social Movements: a network
perspective on connective action.” Academia Sinica, Taipei, Taiwan

(2018) “Network analysis and RSiena – an example-motivated introduction.”
College of Education, University of Washington, Seattle, WA, USA

Conference Presentations

(2018) “Collective versus connective action in Black Lives Matter Sacramento: The interaction between network structures, strong/weak ties, and forms of activism.” Young Scholars in Social Movements Conference, Center for the Study of Social Movements, University of Notre Dame, South Bend, IN, USA

(2017) “Gendered network dynamics of aggressive and prosocial behavior” Center for studies in Demography and Ecology Poster Session, University of Washington, Seattle, WA, USA

(2017) “Commitment in the Cloud? Social Media Participation in the Sunflower Movement.” Digital media, political polarization and challenges to democracy: an international symposium, Vienna, Austria

(2017) “Networks of aggressive and prosocial behavior: Alternative evidence from a Chinese society.” 18th European Conference on Developmental Psychology, Utrecht, Netherlands

(2017) “Gendered and institutional network dynamics of aggressive and prosocial behavior.” Seminar on Deviance and Social Control, University of Washington, Seattle, WA, USA

(2017) “Is Commitment Possible in the Cloud? Social Media Participation in the Sunflower Student Movement.” International Communication Association Annual Meeting Conference, San Diego, CA, USA

(2016) “Social media and collective action: a test of a new structural-cognitive model”. American Sociological Association Annual Meeting Conference. Seattle, WA, USA

(2015) “Oaths, commitment problems, and insurgent strategy: The case of the Mau Mau Rebellion.” Association for the Study of Religion, Economics, and Culture Conference, Orange City, CA, USA

(2015) “Oaths, commitment problems, and insurgent strategy: The case of the Mau Mau Rebellion.” Seminar on Cultural, Organizational, Political and Economic Sociology, University of Washington, Seattle, WA, USA

(2014) “Linking frame analysis and field theory: how a Green Party campaign illustrates the dynamic interplay mechanisms of frames, capital, field rules, and legitimacy risks.” Graduate Student Research Symposium, University of Washington, Seattle, WA, USA

Research Assistance

(2015) Research Assistant. Dr. Ross Matsueda

(2015) Research Assistant. Dr. Steven Pfaff

(2015) Research Assistant. Dr. Samuel Clark

Grants

(2018) Career start-up research fund. University of Washington, USA (\$5000)

(2017) UW Population Health Travel Award (\$1500)

(2017) Travel Grant. UW Graduate School (\$300)

(2017) Travel Grant. International Association of Communication (\$200)

(2015) Research Grant. Department of Sociology, University of Washington, USA. "Social media and collective action participation: A socio-psychological investigation." (\$1000)

(2009-2010) National Science Council Research Project Grants for Outstanding Undergraduate Students, Taiwan. "How the Internet affects Social Movements." (\$1567)

Reviewer Experience

American Journal of Sociology, New Media and Society, Information, Communication and Society, Social Movement Studies, International Sociology, Social Science Computer Review, Third World Quarterly, Taiwanese Sociology (<台灣社會學>)

Other Work Experience

(2011-2012) Chief of Communication. Campaign team of Green Party candidate Pan, Han-Shen.

(2010-2011) Second lieutenant. Coast Guard Station at the Peng-Hu archipelago.

(2009) Journalist. Consciousness-Awakening Newsletters, National Taiwan University.

Last Updated: April 2019