

Yi-Ta Lu, Ph.D.

CONTACT INFORMATION	Department of Political Science National Cheng Kung University 1 University Rd., East Dist., Tainan City 701, Taiwan	yitalu@gs.ncku.edu.tw https://yitalu.github.io
ACADEMIC POSITIONS	Assistant Professor Department of Political Science National Cheng Kung University, Taiwan Guest Researcher Postdoctoral Researcher <i>BirthRites</i> Lise Meitner Research Group Department of Human Behavior, Ecology and Culture Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany Lecturer Department of Political Science State University of New York at Stony Brook, NY, USA Full-Time Research Assistant Department of Economics National Taiwan University, Taiwan	Aug 2026 to Present Jan 2025 to Dec 2025 Sep 2021 to Dec 2024 Jul 2018 to May 2021 Jun 2012 to Jul 2014
EDUCATION	Ph.D. in Political Science State University of New York at Stony Brook, NY, USA M.A. in Economics State University of New York at Stony Brook, NY, USA M.S. in Physics National Chiao Tung University, Taiwan B.S. in Physics National Cheng Kung University, Taiwan	May 2021 Dec 2015 Jun 2011 Jun 2009
DOCTORAL DISSERTATION	<i>Policy Cooperation Under Threats: Effects of Competition on Coalition Lobbying</i> Committee: Oleg Smirnov (Advisor), Reuben Kline, John Barry Ryan, Tim Johnson	
RESEARCH INTERESTS	Behavioral Political Economy, Cooperation and Institutions, Cultural Evolution, Bayesian and Computational Modeling	
RESEARCH METHODS	Statistical Analysis, Agent-Based Modeling, Game Theory, Causal Inference, Time Series, Lab Experiments, Survey Experiments	
PUBLICATIONS	Lu, Y. T. , & Colleran, H. (2025). Fertility Transition. In J. Tehrani, J. Kendal, & R. Kendal (Eds.), <i>The Oxford Handbook of Cultural Evolution</i> (pp. 668-686). Oxford University Press. Lee, C. S., Wang, M., Nanjappa, D., Lu, Y. T. , Meliker, J., Clouston, S., Gobler, C. J., & Venkatesan, A. K. (2023). Monitoring of Over-the-Counter (OTC) and COVID-19 Treatment Drugs Complement Wastewater Surveillance of Sars-Cov-2. <i>Journal Of Exposure Science And Environmental Epidemiology</i> , 1-9.	

Lu, Y. T., Hwang, W. H., Hsieh, Y. T., Ho, T. Y., Zhu, J. D., Yeh, C. I., & Huang, C. Y. (2022). Choices Behind the Veil of Ignorance in Formosan Macaques. *PNAS Nexus*, 1(4).

Shin, I., Wang, L., & **Lu, Y. T.** (2022). Twitter and Endorsed (Fake) News: The Influence of Endorsement by Strong Ties, Celebrities, and a User Majority on Credibility of Fake News During the COVID-19 Pandemic. *International Journal of Communication*, 16, 23.

Chung, H. K., Sjöström, T., Lee, H. J., **Lu, Y. T.**, Tsuo, F. Y., Chen, T. S., Chang, C. F., Juan, C. H., Kuo, W. J., & Huang, C. Y. (2017). Why Do Irrelevant Alternatives Matter? an fMRI-TMS Study of Context-Dependent Preferences. *Journal of Neuroscience*, 37(48), 11647-11661.

Deng, D. M., **Lu, Y. T.**, & Chang, C. H. (2017). Fluctuation Relations Between Hierarchical Kinetically Equivalent Networks With Arrhenius-Type Transitions and Their Roles in Systems and Structural Biology. *Physical Review E*, 95(6), 062401.

WORKING PAPERS “Cultural Inheritance Determines the Emergence and Diffusion of Low Fertility in Wealth-Inheriting Populations” with Heidi Colleran.

“Does Inter-Generational Social Mobility Explain Human Fertility Decline? A Classic Model Fails to Replicate” with Heidi Colleran.

WORKS IN PROGRESS “Congress’s Role in Concentrating Wealth in the United States” with Matthew Lebo and Gregory Koger.

“An Agent-Based Model of Elections with Endogenous Candidates, Voters, and Media” with Oleg Smirnov and John Barry Ryan.

“Policy Cooperation Under Threats: Effects of Competition on Coalition Lobbying” (single author).

“Does Media Bias Cause Political Polarization? an Agent-Based Model of Biased Media, Motivated Reasoners, and Political Polarization” (single author).

“Trust, Inequality and Redistributive Demands in Latin America” with Robert Vidigal.

RESEARCH EXPERIENCE **Graduate Research Assistant** Aug 2016 to May 2018
Department of Political Science, Stony Brook University
With: Andrew Delton, John Barry Ryan, Oleg Smirnov, and Peter DeScioli

Visiting Student Jun 2015 to Aug 2015
Department of Psychology, The Ohio State University
With: Ian Krajbich

TEACHING EXPERIENCE **Instructor** Summer 2018 – May 2021
World Politics
Department of Political Science, Stony Brook University

Teaching Assistant Spring 2014
Neuroeconomics (with Chen-Ying Huang)
Department of Economics, National Taiwan University

TEACHING COMPETENCIES Substantive/Theoretical
World Politics, Political Economy, Cultural Evolution, Cooperation, Game Theory
Methods

Quantitative & Research Methods, Causal Inference, Bayesian Data Analysis

Computational

Computational Modeling, Programming (in R, Python, or Stan), Data Science

PROGRAMS AND AWARDS	Software Carpentry Workshop	Nov 29 - Dec 3, 2021
	Scientific Computing for Evolutionary Anthropology	
	Max Planck Institute for Evolutionary Anthropology	
	Honorable Mention	Aug 24-27, 2021
	for participation in the <i>Social Simulation Workshop/Competition</i>	
	Institute of Sociology, Academia Sinica, Taiwan	
	International Winter School on Agent-Based Modeling (with certificate)	Jan 4-15, 2021
	Network for Computational Modeling in Social and Ecological Sciences	
	Arizona State University	
	BIGSSS Summer School in Computational Social Science	<i>Expected:</i> Jul 2020
	Department of Sociology	
	University of Groningen, Netherlands	
	(<i>program postponed to Jul 2021 due to COVID-19 outbreak</i>)	
	SICSS Grant for Survey Experiment on Amazon Mechanical Turk (\$1000)	Jul 2020
PRESENTATIONS	Summer Institute in Computational Social Science	
	Duke University	
	Summer Institute in Computational Social Science at Rutgers	Jun 15-26, 2020
	DIMACS (Center for Discrete Mathematics and Theoretical Computer Science)	
	Rutgers New Brunswick Libraries	
	Department of Political Science, Rutgers University	
	Full Tuition Scholarship and Stipend	Fall 2016 to Spring 2021
	Department of Political Science	
	Stony Brook University	
	Introduction to Complexity (with certificate)	Fall 2019
	Courses by Complexity Explorer	
	Santa Fe Institute	
	Introduction to Agent-Based Modeling (with certificate)	Summer 2019
	Courses by Complexity Explorer	
	Santa Fe Institute	
	Excellent Achievement Award	2005
	for participation in the <i>Physics Contest</i> within the top 5 percent of all the students participated in the academic year, National Cheng Kung University, Taiwan	
	Distinguished Achievement Award	2005
	for participation in the <i>Calculus Contest</i> within the top 10 percent of all the students participated in the academic year, National Cheng Kung University, Taiwan	
	“The Inheritance of Wealth and Allocation Strategy in Human Fertility Decline” at the European Human Behaviour and Evolution Association Conference, Montpellier, France	Apr 19, 2024
	“The Coevolution of Human Fertility and Wealth Stratification” at the Cultural Evolution Society Conference, Aarhus University, Aarhus, Denmark	Sep 22, 2022

	“Does Media Bias Cause Political Polarization? An Agent-based Model of Biased Media, Motivated Reasoners, and Political Polarization” at the American Political Science Association Annual Meeting, San Francisco, CA Sep 10, 2020 “Partisanship, Polarization, and Inequality Over Time” at the Midwest Political Science Association Conference, Chicago, IL <i>Expected: Apr 19, 2020</i> <i>(conference canceled due to COVID-19 outbreak)</i> “Group Cooperation in a Policy Bargaining Game” at the Center for Behavioral Political Economy, Stony Brook University Feb 12, 2020 “An Agent-based Model of Elections with Endogenous Candidates, Voters, and Media” at the Midwest Political Science Association Conference, Chicago, IL Apr 6, 2019 “Distributional Preferences under Rank Reversal Aversion” at the Center for Behavioral Political Economy, Stony Brook University Mar 6, 2018
SKILLS	Software Python, R, Stata, Stan, oTree, NetLogo, Matlab, Mathematica, L^AT_EX, Qualtrics Language English (fluent), Taiwanese Mandarin (native), German (beginner)
PROFESSIONAL ACTIVITIES	Affiliations Theory in Cultural Evolution Lab, Max Planck Institute for Evolutionary Anthropology Center for Behavioral Political Economy, Stony Brook University Memberships American Political Science Association, Midwest Political Science Association, Society for Political Methodology, Cultural Evolution Society, European Human Behaviour and Evolution Association Service Reviewer <i>Humanities and Social Sciences Communications</i>, Conference Session Chair EHBEA 2024, Conference Moderator EHBEA 2022, Conference Discussant APSA 2020
REFERENCES	Available Upon Request.