

## Yi-Ta Lu, Ph.D.

CONTACT INFORMATION	Department of Human Behavior, Ecology and Culture Max Planck Institute for Evolutionary Anthropology Deutscher Platz 6, 04103 Leipzig, Germany	yitalu.tw@gmail.com <a href="https://yitalu.github.io">https://yitalu.github.io</a>
ACADEMIC POSITIONS	<b>Postdoctoral Researcher</b> <i>BirthRites</i> Lise Meitner Research Group Department of Human Behavior, Ecology and Culture Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany  <b>Lecturer</b> Department of Political Science State University of New York at Stony Brook, NY, USA  <b>Full-Time Research Assistant</b> Department of Economics National Taiwan University, Taiwan	Sep 2021 to Dec 2024           Jun 2012 to Jul 2014
EDUCATION	<b>Ph.D. in Political Science</b> State University of New York at Stony Brook, NY, USA  <b>M.A. in Economics</b> State University of New York at Stony Brook, NY, USA  <b>M.S. in Physics</b> National Chiao Tung University, Taiwan  <b>B.S. in Physics</b> National Cheng Kung University, Taiwan	May 2021       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	Political Economy (with a focus on Behavioral Political Economy), Collective Action, Cultural Evolution, Demographic Transition, Computational Modeling	
RESEARCH METHODS	Bayesian Statistics, Causal Inference, Time Series, Agent-Based Modeling, Game Theory, Lab Experiments, Survey Experiments	
PUBLICATIONS	<b>Lu, Y. T.</b> , & Colleran, H. (in press). Fertility Transition. In J. Tehrani, J. Kendal, & R. Kendal (Eds.), <i>The Oxford Handbook of Cultural Evolution</i> . Oxford University Press.  Lee, C. S., Wang, M., Nanjappa, D., <b>Lu, Y. T.</b> , 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</i> <i>Exposure Science And Environmental Epidemiology</i> , 1-9.  <b>Lu, Y. T.</b> , 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. <i>PNAS Nexus</i> , 1(4).  Shin, I., Wang, L., & <b>Lu, Y. T.</b> (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, Behavioral Political Economy, 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 Scientific Computing for Evolutionary Anthropology Max Planck Institute for Evolutionary Anthropology	Nov 29 - Dec 3, 2021
	Honorable Mention for participation in the <i>Social Simulation Workshop/Competition</i> Institute of Sociology, Academia Sinica, Taiwan	Aug 24-27, 2021
	International Winter School on Agent-Based Modeling (with <a href="#">certificate</a> ) Network for Computational Modeling in Social and Ecological Sciences Arizona State University	Jan 4-15, 2021
	BIGSSS Summer School in Computational Social Science Department of Sociology University of Groningen, Netherlands ( <i>program postponed to Jul 2021 due to COVID-19 outbreak</i> )	<i>Expected:</i> Jul 2020
	SICSS Grant for Survey Experiment on Amazon Mechanical Turk (\$1000) Summer Institute in Computational Social Science Duke University	Jul 2020
	Summer Institute in Computational Social Science at Rutgers DIMACS (Center for Discrete Mathematics and Theoretical Computer Science) Rutgers New Brunswick Libraries Department of Political Science, Rutgers University	Jun 15-26, 2020
	Full Tuition Scholarship and Stipend Department of Political Science Stony Brook University	Fall 2016 to Spring 2021
	Introduction to Complexity (with <a href="#">certificate</a> ) Courses by Complexity Explorer Santa Fe Institute	Fall 2019
	Introduction to Agent-Based Modeling (with <a href="#">certificate</a> ) Courses by Complexity Explorer Santa Fe Institute	Summer 2019
	Excellent Achievement Award 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	2005
PRESENTATIONS	Distinguished Achievement Award 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	2005
	“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	

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