

## 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	<a href="mailto:yi_ta.lu@eva.mpg.de">yi_ta.lu@eva.mpg.de</a> <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  Jul 2018 to May 2021  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  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	Political Economy, Development, Social Dilemmas, Demographic Transition, Cultural Evolution	
RESEARCH METHODS	Agent-Based Modeling, Statistical Analysis (Bayesian, Frequentist, Time Series), Game Theory, Lab Experiments, Survey Experiments	
RESEARCH EXPERIENCE	<b>Graduate Research Assistant</b> Department of Political Science Stony Brook University With: Andrew Delton, John Barry Ryan, Oleg Smirnov, and Peter DeScioli  <b>Visiting Student</b> Department of Psychology The Ohio State University With: Ian Krajbich	Aug 2016 to May 2018  Jun 2015 to Aug 2015
PUBLICATIONS	<b>Lu, Y. T.</b> , & Colleran, H. (in press). Fertility Transitions. 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., **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.](#) *Journal Of Exposure Science And Environmental Epidemiology*, 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.

#### WORK IN PROGRESS

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

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

“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.

#### 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 *Social Simulation Workshop/Competition*  
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 *Expected: Jul 2020*  
Department of Sociology  
University of Groningen, Netherlands  
(*program postponed to Jul 2021 due to COVID-19 outbreak*)

	SICSS Grant for Survey Experiment on Amazon Mechanical Turk (\$1000)	Jul 2020
	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 <a href="#">certificate</a> )	Fall 2019
	Courses by Complexity Explorer	
	Santa Fe Institute	
	Introduction to Agent-Based Modeling (with <a href="#">certificate</a> )	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	
PRESENTATIONS	“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
	“Social Dilemmas in Politics” at the Department of Humanities and Social Sciences, National Tsing Hua University, Hsinchu, Taiwan	Mar 29, 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
TEACHING	Instructor	
	• World Politics	Summer 2018 to May 2021
	Department of Political Science	
	Stony Brook University	

	Teaching Assistant	
	<ul style="list-style-type: none"> <li>• Neuroeconomics (with Prof. Chen-Ying Huang)</li> </ul>	Spring 2014
	Department of Economics	
	National Taiwan University	
	Courses Can Offer	
	<ul style="list-style-type: none"> <li>• Undergraduate: World Politics, Statistics, Research Methods</li> <li>• Graduate: Political Economy, Behavioral Economics, Cooperation, Game Theory, Computational Modeling, Data Analysis, Experimental Design, R for Statistics</li> </ul>	
SKILLS	Software	
	Python, R, Stata, Stan, oTree, NetLogo, Matlab, Mathematica, L <sup>A</sup> T <sub>E</sub> X, Qualtrics	
	Language	
	English (fluent), Mandarin (native), Taiwanese (intermediate)	
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.	