

Mathematical Sociologist, the MathSoc Newsletter



From the Chair's Desk:

Hello, mathematical sociologists. Greetings from Athens, Georgia. I hope your summers are all as lovely and refreshing as mine has been so far. I'd like to think there is much summer to come, but I know better.

Our ASA meetings in Philadelphia are just around the corner. You'll see in these pages what a fantastic set of sessions we have on our docket.

ASA scheduling always and unavoidably has some unfortunate overlapping of sessions. You'll also see that three of our section sessions are at the same time on the last day of the conference. This is particularly hard on a small section like ours when our section day is the first day of the conference. The spread across days is unavoidable when we partner with other sections to expand our opportunities for mathematical sociology in the program. So, we can read that as a good thing. The fact that they are at the same time is due to limitations of the ASA session submission system.

ASA allows/encourages sections to co-sponsor sessions with one another in 2-year arrangements. They do not, however, offer a means for notating co-sponsorship in the session submission system. Our five organizers did their best – noting it in various places (title, abstract, details) or not at all. The ASA program organizers had no consistent way of detecting co-sponsorships and missed two of them and put them both on top of a third. So, apologies for that. We are hoping that ASA will consider a change to their submission system. On the positive side, at 8:00 a.m. on Monday morning, it will be hard to miss hearing some excellent mathematical sociology!

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A Message from the Chair Cont'd.

There is much other good news to share in this newsletter. We have voted in a fabulous new slate of section officers. In August of 2024, Diane Felmlee will once again take the helm of our ship as Chair. In August 2023, Laura Nelson, Xi Song, and Loring Thomas will come on as Council members. We are grateful to all of those who agreed to stand for election and to the nominations committee (chaired by Lynn Smith-Lovin) for assembling such an amazing quality slate. You'll find the full committee listing in this newsletter.

Hopefully, you have seen announcements about our 2023 section award winners as they appeared on ASA Connect. I understand there were difficult decisions to make, but we have an amazing set of scholars to honor. The 2023 Award for Progress in Mathematical Sociology will go to Lynn Smith-Lovin for her work on the modern formalization of affect control theory. The Outstanding Article award will go to Scott Duxbury and Dana Haynie. Oscar Stuhler will receive the Outstanding Graduate Student Paper Award. Finally, Bernardo Mackenna will receive the 2023 Geoffrey Tootell Dissertation-in-Progress Award. Heartfelt congratulations to all of these scholars! Please see articles on these awards in this newsletter – and come celebrate their accomplishments at our Business Meeting/Award Ceremony on Friday, August 18, at 5:00 p.m. Thank you so much to all of the section members who chaired and served on these award committees. Lifting up the excellent scholarship being produced by mathematical sociologists is one of the central missions of our Section – but it is work. Thank you!

This year, the Section launched a couple of new initiatives. At last year's business meeting, the attending members approved two new ad hoc committees recommended by the council – a Membership Affairs Committee and an External Affairs Committee. Elisa Bienenstock, Chair of the Committee on External Affairs, has an article in this newsletter outlining her vision for the future of this committee and welcoming input and volunteers to launch these initiatives in the coming months. Mathematical sociologists – within and outside of academia – are producing knowledge of value to constituencies – both within and outside of academia. The core mission of this committee is to increase our visibility and connection with those outside of the academy – including research organizations, mission-based organizations, funders, and policy-makers. Please reach out to her with ideas – or willingness to assist with these initiatives.

The Membership Affairs Committee (chaired by Section Chair-elect, Noah Mark) focused their efforts on three tasks: (a) launching a new mathematical sociology section mentoring program, (b) developing a proposal for a distinctive and meaningful scale-up of this new program in the future, and (c) developing some ideas for the future mission(s) of this new committee. We will report on and discuss these new plans with section members at the business meeting on Friday, August 18, at 5:00 p.m. Meanwhile, if you haven't done so, please sign up to be a mentor or a mentee in the pilot version of our new mentoring program: https://uncc.qualtrics.com/jfe/form/SV_9YVMwouu8WuiA6O

A Message from the Chair Cont'd.

The transition to ASA Connect this year was a bit of a challenge. Early settings made it difficult to send emails to the membership – which was also discouraged in order to allow members to choose their own digital consumption patterns through their communication settings. We made a go at keeping information on our ASA Connect site updated and informative. I heard from section members this year that this was only partially successful. Many of you said you found it harder to stay abreast of section news and opportunities in this communication format. Some section members opted out of the format entirely (and so may not see this newsletter). ASA has announced that it is discontinuing ASA Connect in August. So, we will return to the traditional listserv form of section communication next year. If you have thoughts about other ways we can stay connected and informed as a section – please feel free to reach out to me or Noah Mark.

Writing a newsletter is also hard work. Among other things, one must get people to submit material to publish (like the Chair's column). It is a labor of love that requires planning, communication, creativity, and time. Fortunately for us, Diego Leal and Jorge Zazueta have been doing an amazing job for us. Thank you, Diego and Zazueta. And thank you for agreeing to



Finally, I hope to see you all at our section reception at *Tir na nO'g* from 6:30–9:30 p.m., Saturday, August 19, 2023. The pub is close to the conference center, at 1600 Arch St., Philadelphia, PA 19103. Doors open at 6:30 p.m. We (and our seven section partners) have all areas in the restaurant to ourselves. There will be plenty of pub food and drink tickets for the first 300 people. Come celebrate the year's accomplishments, make plans for an exciting new year, and hobnob with your fellow wizards!

Warm regards,

Dawn

2023 ASA – Annual Meeting

1. Section on Mathematical Sociology Business Meeting

Friday, August 18, 5:00pm to 5:30pm EDT, Pennsylvania Convention Center, Floor 100, 105A

Session Organizer: Dawn T. Robinson, University of Georgia.

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## 2. Joint Reception

(with Section on Altruism, Morality and Solidarity, Section on Evolution, Biology, and Society; Section on Methodology; Section on Rationality and Society; Section on Sociology of Emotions; Sociology on History of Sociology and Social Thought; Section on Social Psychology)

Saturday, August 19, 6:30pm to 9:30pm, *Tir na nO'g* Iris Pub [1600 Arch St, Philadelphia, PA 19103]

See you there!!

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3. James S. Coleman Lecture:

Gillermina Jasso, NYU

Friday, August 18, 4:00pm to 4:50pm EDT, Pennsylvania Convention Center, Floor 100, 105A

Session Organizer and President: Dawn T. Robinson.

The James S. Coleman Distinguished Career Award is given on even-numbered years, and the winner delivers the Coleman Lecture the following year. The Award and the Lecture thus honor both a founder of mathematical sociology and a distinguished contributor to the advancement of mathematical sociology. Guillermina Jasso is Silver Professor of Arts and Science at NYU (PhD, Johns Hopkins, 1974) and has made foundational contributions to the study of international migration, distributive justice, inequality and stratification, and basic sociobiological theory. Please join us to participate in Professor Jasso’s lecture “Mathematics is the Social Scientist’s Best Friend” and to celebrate her distinguished career.

4. Mathematical and Computational Approaches to Agency and Social Networks

(joint with Section on Rationality & Society):

Friday, August 18, 8:00am to 9:30am EDT, Pennsylvania Convention Center, Floor 100, 105A

Session Organizer: Anthony Paik, UMass Amherst

Session President: Mark Pachucki, UMass Amherst

Jointly sponsored by the Mathematical Sociology and Rationality & Society Sections, this session invites paper submissions examining the interplay between agency and social networks through the use of mathematical concepts or computational techniques. With varying levels of agency, actors strategically form social networks or find themselves embedded within them. Social networks, conversely, shape behavior through the former's structure, culture, and the characteristics of the network actors. Moreover, action and networks can co-evolve. This session encourages papers that either make novel mathematical or computational extensions or identify key empirical findings using existing models.

New immigrant destinations, adolescent friendship, and substance use: How network revitalization informs the Latinx paradox— Cassie McMillan, Northeastern University.

Social networks in COVID-19 America: Americans remotely together but politically apart — Byungkyu Lee and Kangsan Lee, NYU; Benjamin Swartz Hartmann, Indiana University.

Moving Beyond Structure and Agency: How Opportunities are Realized in (a Community of) Practice— Jessica Gold and Allison Donine Deese, Northeastern University; Laura K. Nelson University of Brith Columbia; Kathrin Zippel, Freie Universität Berlin

Status Hierarchy can Organize Cooperation in Groups with Multiple Leaders — Hsuan-Wei Lee, Academia Sinica; Yen-Ping Chang, National Tsing Hua; Yen-Sheng Chiang, Academia Sinica.

Structural and Cultural Pathways to Novelty Introduction in an Online Community— Ana Macanovic, Utrecht University; Damiano Morando, Imperial College Business School.

5. Mathematical and Computational Models and Methods in Social Psychology

(joint with Social Psychology Section):

Friday, August 18, 2:00pm to 3:30pm EDT, Pennsylvania Convention Center, Floor 100, 105A

Session Organizers: Bryan Christopher Cannon, Alice Lloyd College

We seek papers for a session sponsored jointly by the Mathematical Sociology and Social Psychology Sections. This session will build on the longstanding connections between the mathematical sociology and social psychology and explore new opportunities for further development. We invite papers that advance, extend, test, or build on existing computational and mathematically formalized theoretical models in social

psychology (or introduce new models or extensions); employ mathematical and computational models and methods (including but not limited to network analysis, agent-based models, text analysis, machine learning, and mathematical modeling) to explore social psychological questions and/or theory in innovative ways; work employing unique sources of data/complex data and computational methods to explore social psychological questions and/or theory; and work that demonstrates how social psychological theory and insights may be utilized by the broader population of mathematical and computational sociologists across the discipline. We especially invite works in progress (e.g., extended abstracts) that would benefit from professional feedback.

Affect Control Theory as a Predictive Measure of Moral Judgment – Regan Smock and Yongren Shi, University of Iowa.

Beyond the Structure of Attitudes: Belief Systems, Affect, and Polarization—Steven Lauterwasser, Northeastern University.

Kula Ring Distance: A Node-level Measure of Structural Cohesion— Yunsub Lee, Nigel van Herwijen, Miranda Jessica Lubbers, University of Barcelona.

Status Signaling, Rank Ambiguity, and Reciprocity in Informal Economic Exchange— Fabian Accominotti, University of Wisconsin – Madison.

Structure and the Subjective: Network Metrics and the Experience of Self and Group— Hana Shepherd and Brent Hoaglanf, Rutgers University.



6. Modeling Cultures

(joint with Sociology of Culture Section):

Monday, August 21, 8:00am to 9:30am EDT, Pennsylvania Convention Center, Floor 100, 103C

Session Organizers: Ronald L. Breiger, University of Arizona and Juan Pablo Pardo-Guerra, UC San Diego

Discussant: Neha Goldal, Boston University

There has been increased interest and excitement recently in identifying and using mathematical models and other formal concepts and approaches in the study of cultures and cultural practices. At the same time, there has been increasing interest among sociologists of science and knowledge in studying modeling itself as a cultural practice. This session is open to papers that develop and apply mathematical models to questions including (but not limited to) how cultures evolve, polarize, and transform social relations and how formal cultural analysis can be integrated across scales; the session is also open to papers that ask about meaningful practices among researchers and others who develop and use models, that investigate how models are

interpreted, how models are different from each other and related tools, and how they do or do not travel across cultures. This session is jointly sponsored by the Sociology of Culture and the Mathematical Sociology sections.

How Culture is Coherent: The Reproduction of Gendered Naming Aesthetics in the United States 1880-2016 — Charles F. Seguin, Penn State; Brandon Gorman, SUNY-Albany; Yongjun Zhang, Stony Brook U.

Social Identity Schemas, Political Discourse, and Interpretation: A Workflow for Analyzing Cultural Schemas in Texts — Marshall A. Taylor, New Mexico State University; Dustin S. Stoltz, Lehigh University.

Testing the (Disputed) Claims of the Sociological Dual-Process Model Using Multinomial Processing Tree Models — Andrew Miles, Salwa Khan, and Yagana Samin, U. of Toronto.

The Effect of Ideological Cluster Belief Network Structures on Public Opinion Change — William Holtkamp and Scott W. Duxbury, UNC – Chapel Hill.



7. Computational Sociology: Methods and Applications

(joint with Methodology Section):

Monday, August 21, 8:00am to 9:30am EDT, Marriott Philadelphia Downtown, Floor: Level 5; Grand Ballroom Salon D.

Session Organizer: Mario D. Molina, NYU – Abu Dhabi.

Session Discussant: Minsu Park, NYU – Abu Dhabi.

This joint session of the Methodology and Mathematical Sociology Sections covers new work that develops new computational methods and/or applies computational methods to novel sources of data. Different techniques may include using computational approaches for causal inference (e.g., regression trees), measurement (e.g., natural language processing), discovery, and dimension reduction (e.g., clustering), as well as other relevant approaches. Different data sources may involve administrative records, historical archives, text and image data, social media, network data, and data that link traditional social surveys with emerging 'Big Data' in social sciences..

Beyond TechCrunch: Gender Variation in Startup Pitches in France and the U.S. — Jen Schradle, Sciences Po; Laura K. Nelson University of British Columbia; Alexia Vallenias Wiese

Governing Through Gossip: The Role of Informal Communication in Reputation-Based Online Markets

— Ana Macanovic, Wojtek Przepiorka, and Vincent W. Buskens, Utrecht University.

Machine Learning Predictions and the Targeting of Incentives in Government Surveys: A Large-Scale Field Experiment

— Rebecca Ann Johnoson, Georgetown University.

Millions of Mobile-tracked Visits Reveal Socioeconomic Inequality of Daily Consumption

— Yuanmo He and Milena Tsvetkova, London School of Economics

8. Mathematical and Computational Analysis of Inequality and Mobility

(joint with Methodology Section):

Monday, August 21, 8:00am to 9:30am EDT, Pennsylvania Convention Center, Floor: 100 Level, 105B**Session Organizers:** Tim F Liao, SUNY Stony Brook

The session aims to bring together a set of high-quality papers on facets of inequality in society and/or on intergenerational or intragenerational social mobility in any domains by using mathematical models or computational methods. As such, we envision a session with papers engaging the foci of both sections and can have either a methodological or a substantive objective.

Status Orders, Meritocratic Status Allocation, and Multiple Dimensions of Merit: Preliminary Results

— Zbigniew Karpinski, Polish Academy of Sciences; John Skvoretz, University of South Florida

The role of population age structure in the rise of US income inequality, 1962-2022

— Janet Wang, Robert Allen Manduca, University of Michigan Ann Arbor.

Assessing Residential Sorting using Word Embeddings: How SES and SOI Laws affect Craigslist Rental Listings

— Zachary Dillon Kline, University of Connecticut; Ian Kennedy, Rice University.

Determining Treatment Prioritization Rules: An Application to the Benefits of College in Reducing Poverty

— Jiahui Xu, Jennie E. Brand, Tanvi Shinkre, UCLA, Nanum Jeon.

Social Rigidity over the Life Course: Using Machine Learning to Predict Ultimate Socioeconomic Status

— Haowen Zheng, Siwei Cheng, NYU.

Mathematical Sociology Awards 2023

1. Outstanding Article Publication Award in Mathematical Sociology

Chair: Emma S. Spiro, University of Washington

Members: David Schaefer, University of California, Irvine, Austin Kozlowski, University of Chicago
Yongren Shi, University of Iowa, Jun Zhao, Georgia State University

This year, we received numerous nominations for the Outstanding Article Publication Award in Mathematical Sociology. The award committee was impressed with all the nominations and enjoyed seeing a range of mathematical approaches and application areas represented in the articles. As usual, the committee members discussed various ways these publications contributed to mathematical sociology, along with context and area-specific impact. Two papers rose to the top in deliberations, with this year's award going to **Scott W. Duxbury** and **Dana L. Haynie** for their paper "*Shining a Light on the Shadows: Endogenous Trade Structure and the Growth of an Online Illegal Market*," published in the *American Journal of Sociology* (2021). In this article, the authors investigate how illegal markets grow and develop, demonstrating that endogenous networks of trade relationships enable illegal markets to escape the risk and uncertainty inherent to early-stage illegal markets. The paper combines methodologically sophisticated dynamic network models, theoretical clarity, and exciting new data to reveal the structure of drug trade networks and further our understanding of online illegal markets. Congratulations, Scott and Dana!

A second paper was awarded an honorable mention by the committee, with **Andrea Voyer** and **Zachary Kline** receiving the honorable mention for the 2022 paper in *Sociological Methods & Research*, which included co-authors Danton and Volkova as well.

Many thanks to this year's award committee, which included Austin Kozlowski, David Schaefer, Yongren Shi, and Jun Zhao.

2. Outstanding Graduate Student Paper Award in Mathematical Sociology

Chair: Weihua An, Emory University.

Members: Aiden Combs Duke University, Thomas Davidson Rutgers University, Ian Lundberg Cornell University, and Mustafa Yavaş NYU Abu

Oscar Stuhler (New York University) is the recipient of the 2023 Outstanding Graduate Student Paper Award in Mathematical Sociology for his paper, "Who Does What to Whom? Making Text Parsers Work for Sociological Inquiry", published in 2022 in *Sociological Methods and Research*. A large amount of text

analysis concentrates on using word or concept co-occurrences or studying semantics via word embedding. Despite being useful in many ways, these approaches ignore the deep meaning behind text. This paper presents a new framework for extracting socially meaningful information from text by treating text not simply as a collection of words but more appropriately as actions, relations, stories, narratives, and representations of social structures. The paper makes several significant contributions. First, it provides a semantic grammar that differentiates text into various motif classes, such as actions of an entity, treatments of an entity, and patients acted upon by an entity (Yeah, very fancy jargons!). Second, it provides a comprehensive set of mapping rules that allows for recovering motifs and semantics from parsed syntax. Third, the paper is accompanied by an R package that implements the proposed methods (which is nice but hard work itself!). Last but not least, the paper provides vivid applications through text analyses of gendered interaction in American novels and constructions of collective identity in presidential campaigns. As the Chair of the award committee, I congratulate Oscar for receiving the award and thank the committee members, including Aiden Combs, Thomas Davidson, Ian Lundberg, and Mustafa Yavaş, for their service.

3. Geoffrey Tootell Mathematical Sociology Outstanding Dissertation-in-Progress Award

Chair: Cassie McMillan, Northeastern University.

Members: Jaemin Lee The Chinese, University of Hong Kong; Michael Schultz, Indiana University; Jan E. Stets, University of California, Riverside; and Loring Thomas, University of California-Irvine

This year's Geoffrey Tootell Mathematical Sociology Outstanding Dissertation-in-Progress Award goes to Bernardo Mackenna for his proposal titled "The Ties that Bind: Socioeconomic Segregation Interpersonal Networks and Prosocial Attitudes and Behavior." Mackenna's proposal aims to investigate the causes and consequences of interactions between individuals from different economic groups. Not only are cross-socioeconomic ties understudied in sociology, but as Mackenna argues, they are likely to be a key mechanism that can explain variations in prosociality and social cohesion. Mackenna plans to address his research questions by relying on an impressive array of methodological techniques, including egocentric network analysis, cross-national survey modeling, computational analysis, lab-in-the-field experiments, and qualitative interviews. The committee was particularly impressed by Mackenna's ability to apply theory and methodological techniques from mathematical sociology to address important substantive questions with clear policy implications. There is no doubt that the project has strong potential to make contributions to mathematical sociology, as well as other subfields, and we look forward to the results of Mackenna's impressive work. Congratulations to Bernardo Mackenna! And many thanks to this year's award committee: Jaemin Lee, Michael Schultz, Jan E. Stets, and Loring Thomas.

Announcements

New Committee: External Affairs

The ad hoc External Affairs Committee of the Mathematical Sociology Section of the ASAs was established to expand the reach of the Section and institutionalize our commitment to inclusion. The mathematical sociology section is a vibrant group representing sub-fields that make enormously important contributions to the discipline, but sometimes, we struggle to maintain minimum membership numbers. This year, the committee identified three constituencies with whom we intend to establish a formal connection. Here, we present some of our ideas about how to engage members of these groups.

The first group we seek to engage is trained mathematical sociologists employed outside academia. We estimate that just about everyone in the Section has mentored someone who elected to leave academia for whatever reason. Unfortunately, with time, the connection to the discipline dwindles. This committee intends to define official roles for those mathematical sociologists. The advantages are many: (i) Many of our colleagues outside of academia are working on projects with collaborators or data that would enhance our work. They may be making breakthroughs that we never hear about. (ii) Many of our colleagues are in positions to hire our current students who may not want to be in academia or may not be hired in academia. This pipeline can also serve as a way to place undergraduates into challenging and exciting jobs. Imagine being able to convince undergraduates that sociology is a lucrative major! (iii) Through these contacts, we could have more influence and have more direct means to influence change. Academics in ivory towers are often considered too theoretical to be useful. Formal ties to the practitioners that we trained would be an avenue to be more effective.

The second group includes scientists not trained in social science who operate within our domain. This group is setting the agenda for computational social science modeling and acquiring the lion's share of grants that call for modeling social phenomena. The interesting thing here is that many of these researchers not only do not understand the benefit of working with mathematical sociologists, they are not even aware that a group of formally trained sociologists exists. It is time to formally connect with this group by inviting leaders in this emergent area to join our Section. By developing a formal connection to the leaders of this community, we can make our value obvious and can begin to influence their agenda.

Finally, the last group, the External Affairs Committee, seeks to engage are customers of mathematical sociology. There is a great deal of interest in our expertise, but many who desire our products are unaware of our existence. We need to develop relationships and products that inform the general public about our sub-field. Government (at all levels) and businesses understand the need for formal models of people, but it ends there. Finding those within the government and the business community who need our expertise can provide opportunities for collaborative case studies, funding opportunities, and an eventual pipeline of jobs for our students at all levels.

The committee's plan to bootstrap the creation of these three types of formal ties is to start with soliciting references from our membership for candidates for each group. You will soon be invited to fill out forms to

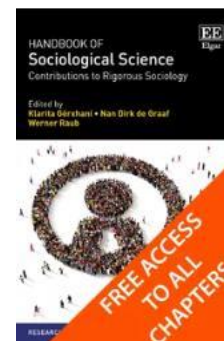
recommend people you think might be interested in engaging with our Section. The next step will be to sponsor inclusive workshops and conference sessions and to reach out to those on the list with informational updates about our session's activities and our member's accomplishments. The committee is also soliciting recommendations for additional constituencies we should engage in and ideas about how to introduce ourselves and build these relationships.

Elisa Jayne Bienenstock, PhD
College Research Professor, School of Public Affairs, College of Public Service & Community Solutions
Arizona State University

New Handbook of Sociological Science

Klarita Gërkhani, Nan Dirk de Graaf & Werner Raub (eds.), *Handbook of Sociological Science: Contributions to Rigorous Sociology*, Cheltenham: Edward Elgar.

The 'Handbook of Sociological Science' offers a refreshing, integrated perspective on research programs and ongoing developments in sociological science. It highlights key shared theoretical and methodological features, thereby contributing to progress and cumulative growth of sociological knowledge.



The positive and friendly reception of the 2022 hardcover edition has induced preparing a new 2023 paperback edition. Also, the complete Handbook is now Open Access available, with an Open Access file comprising the Handbook in its entirety as well as separate Open Access files for each individual chapter. Further information and the Open Access files are available at the Edward Elgar webpages:

- <https://www.elgaronline.com/edcollbook/book/9781789909432/9781789909432.xml>
- <https://www.e-elgar.com/shop/gbp/handbook-of-sociological-science-9781035323814.html>

The affordably priced paperback edition and the Open Access facilities will further enhance visibility of the Handbook, including suitability for teaching and graduate training purposes.

Praise for the Handbook: "This is an ambitious, comprehensive, and much-needed Handbook that aims to bring back rigor to the current practice of sociology. The emphasis is on rigor, not old battles of theory versus empiricism or quantitative versus qualitative research. I recommend it to anyone who wishes to conduct or understand sociological research." (Yu Xie, Princeton University)

Job Opportunities

Assistant Professor in Computational Sociology, University of Georgia

Deadline: August, 22th, 2023

The Department of Sociology at the University of Georgia invites applications for an Assistant Professor in the area of Computational Sociology to begin on August 1, 2024. The successful candidate will join the Social and Behavioral Dynamics of Health, Well-Being, and Security hiring cluster, which is part of a larger Presidential Interdisciplinary Faculty Hiring Initiative in Data Science and Artificial Intelligence at the University of Georgia https://provost.uga.edu/data_science_ai/. Candidates should hold a Ph.D. in Sociology or a related discipline, be well-grounded in sociological theory, and have strong computational and data analytic skills. We welcome scholars employing a variety of methodological approaches – including but not limited to – text analysis, networks, advanced quantitative methods, Bayesian statistics, analysis of large-N data, experiments, machine learning, and computer simulations. Responsibilities of the position entail maintaining a robust research program, including actively seeking external funding, contributing to excellence in graduate and undergraduate teaching and mentoring, and engaging in service to the university and the profession. Scholars who can work collaboratively with a multidisciplinary team are of particular interest, as are those who can engage with other programs and interdisciplinary research centers at the university. We also seek applicants who are committed to UGA's mission and core characteristics: <https://www.uga.edu/about/mission>

Computational sociologists rely on data-intensive modeling to understand social movements, dynamic social systems, organizational behavior, complex contagions, social solidarity and conflict, migration and immigration, crime, economic development, and dynamics of belief polarization, as well as to identify cultural meanings, reveal stereotypes, and model local and large-scale interactions. The sociologist in this cluster will use computational methods to study social and cultural dynamics related to health, security, and/or well-being as well as be able to teach classes in quantitative methodology that will support the graduate and undergraduate training missions of sociology, psychology, international affairs and political science.

The Department of Sociology on the main Athens campus is an intellectually diverse department specializing in the study of race/ethnicity, criminology, gender, social psychology, health/medical sociology, and Latin American studies. Departmental faculty participate in a number of university centers and institutes such as the Owens Institute for Behavioral Research, the Criminal Justice Studies Program, the Institute for African American Studies, the Center for Family Research, the Institute for Women's Studies, and the Latin American and Caribbean Studies Institute. For more information about the department, see sociology.uga.edu. For questions about the position, please contact Dr. Dawn T. Robinson, Search Committee Chair (sodawn@uga.edu).

The University of Georgia is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, ethnicity, age, genetic information, disability, gender identity, sexual orientation, or protected veteran status. Persons needing

accommodations or assistance with the accessibility of materials related to this search are encouraged to contact Central HR (hrweb@uga.edu).

To apply, visit [ugajobsearch.com/postings/316302](https://www.ugajobsearch.com/postings/316302). We will begin screening applicants on August 22, 2023, and continue accepting applications until the position is filled. Applicants should submit a CV, cover letter, research statement, teaching statement, writing sample, and contact information for three references. Letters of recommendation will be requested later in the search process.

Submission link: <https://www.ugajobsearch.com/postings/316302>.

Assistant Professor in Computational Social Science, University of Illinois Urbana-Champaign

Deadline: October, 3rd, 2023

The Department of Sociology at the University of Illinois at Urbana-Champaign invites applications for a 9-month full-time tenure-track Assistant Professor in the field of computational social science (quantitative or qualitative). We are particularly interested in candidates with research interests and expertise in social inequality and poverty, health and health disparities, immigration, and crime that speak to questions related to social and racial justice (defined in terms of equal access and equal rights). Candidates must possess theoretical, analytical, and empirical skills; a commitment to research and teaching effectiveness is essential. Successful candidates are expected to teach effectively at both the undergraduate and graduate levels, establish and maintain an active and independent research program, and provide service to the department, the university, and the profession.

The University of Illinois College of Liberal Arts and Sciences is a world leader in research, teaching, and public engagement. Faculty in the College create knowledge, address critical societal needs through the transfer and application of knowledge, and prepare students for lives of impact in the state, nation, and globally. To meet these objectives, the College embraces and values diversity and difference through hiring faculty candidates who can contribute through their research, teaching, and/or service to the diversity and excellence of the Illinois community.

PhD in Sociology or a closely related field is required. PhD is required at the time of application or by June 15, 2024, to be appointed as an Assistant Professor in August 2024. Candidates whose PhD may be delayed but will complete all the PhD requirements within the first appointment year may be appointed at the rank of Instructor. After the PhD requirement is met, the appointment will be changed to Assistant Professor. The target start date is August 16, 2024. Salary is commensurate with qualifications and experience.

Submission link: <https://jobs.illinois.edu>

Work and Organizations Studies (WOS) Open Rank Position MIT Sloan School of Management

Deadline: September, 8th, 2023

The Work and Organization Studies (WOS) group at the Massachusetts Institute of Technology (MIT) Sloan School has openings for tenure track faculty members to start July 1, 2024, or as soon thereafter as possible, whose teaching and research uses computational social science methods to study communications and organizational issues. The rank is open and junior and senior candidates at the Assistant Professor, Associate Professor and Full Professor levels will be considered.

The candidate's research program should substantively engage with organizations and communication. It should also use computational social science methods; for example, network analysis, machine learning, web-scraping, or natural language processing. In addition to research, faculty would be responsible for teaching courses related to communications, organizational studies or data science, all broadly defined. For example, courses might be taught on data analysis, communications, organizations or a variety of specific substantive topics (like Advanced Leadership Communication, Communicating with Data, Network Analysis, or Sports and Analytics at the MBA level, or Computational Methods at the PhD level).

At the Assistant Professor level, candidates must possess, or be close to completion of, a Ph.D. in a field related to work and organization studies such as Communications, Political Science, Computer Science, Economics, Psychology, Organizational Behavior, or Sociology at the start of employment. At the Associate Professor and Full Professor levels, a Ph.D. and a substantial research record is required.

The WOS faculty is interdisciplinary and eager to integrate computational social science research. WOS research approaches includes quantitative, ethnographic, field based, and/or lab based. WOS builds on the traditions of Organization Studies and the Institute for Work and Employment Research and has Ph.D. programs in both areas. (For more information about our group, go to: <https://mitsloan.mit.edu/faculty/academic-groups/work-and-organization-studies/about-us>).

The WOS group is part of the Behavioral and Policy Sciences Area, one of three major academic areas at Sloan. We encourage multidisciplinary work with colleagues in other parts of the School (Communication; Economic Sociology; Technological Innovation, Entrepreneurship, and Strategy Management; System Dynamics; Global Economics and Management; and Information Technology).

Please submit applications electronically at <http://apply.interfolio.com/127653> providing a cover letter outlining interests and experience, a current CV, research and teaching statements, and one or two papers that indicate your research focus and capabilities. Applicants should also arrange for three letters of recommendation to be submitted via Interfolio. Applications will be reviewed as received but are due no later than Friday, September 8, 2023.

MIT is an equal opportunity employer committed to building a culturally diverse and pluralistic intellectual community and strongly encourages applications from women and minorities.

Submission link: <http://apply.interfolio.com/127653>

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## Open Rank Position in Sociology

### The Hong Kong University of Science and Technology

Deadline: September, 18<sup>th</sup>, 2023

The Division of Social Science at The Hong Kong University of Science and Technology seeks to fill positions in Sociology. The University is an English-speaking research university with international faculty. The Division of Social Science is highly ranked internationally. We invite applications for Assistant Professor rank. Appointment at the Associate Professor/Full Professor rank may also be considered for candidates with outstanding academic credentials and international recognition. Candidates may work in any of the major areas in Sociology. Applicants who work on cross-disciplinary topics with other social science subjects, and/or who may contribute to the development of computational or quantitative social science in the Division are especially welcome.

Review of applications will start on 18 September 2023 and the search will continue until the position is filled.

Submission link: <http://apply.interfolio.com/129041>

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Assistant Professor in Quantitative Social Science

Yale University

Deadline: October, 1st, 2023

The Department of Sociology at Yale University intends to make an appointment of the rank of Assistant Professor (tenure-track) in the field of quantitative sociology. We seek a candidate working in any substantive area of sociology using quantitative methods. This position's essential duties include teaching courses related to their substantive area of expertise and/or quantitative social science methods such as data-intensive computational methods, experimental methods, and/or statistical methods. The start date for the position is July 1, 2024.

Submission link: <https://apply.interfolio.com/127990>

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Mission Statement of the Mathematical Sociology Section

The purpose of the Mathematical Sociology Section of the American Sociological Association is to encourage, enhance, and foster research, teaching, and other professional activities in mathematical sociology for the development of sociology and the benefit of society through organized meetings, conferences, newsletters, publications, awards, and other means deemed appropriate by the Section Council. The Section seeks to promote communication, collaboration, and consultation among scholars in sociology in general, mathematical sociology, and allied scientific disciplines.