

2023 Section Annual Report: Part 1 for Mathematical Sociology

Introduction

Annual reports are used by the Sections Committee to assess the health of a Section, measure the Section's vitality, and identify processes, programs, or initiatives that could serve as a model for other Sections. In addition, they serve to provide institutional memory, socialize new Section leaders, and promote transparency to Section members.

This annual report covers the period of Section activity from September 2022 to August 2023 and a fiscal year from January 2023 to December 2023. This portion of the report will be shared publicly.

Section Governance

Provide details of your Section's governance activity during the period between September 2022 and August 2023.

Business Meeting

Copy and paste below (or attach separately) the agenda and draft/approved meeting minutes from the Section business meeting which include a count of members present and summary of decisions made at this meeting. Minutes are not a transcript of proceedings, but a listing of what discussions took place and official actions taken.

The annual business meeting for the Mathematical Sociology Section took place at 5:00-5:30 pm on August 18, 2023, immediately following the James S. Coleman Address session. The agenda is provided in **Attachment 1 – Business Meeting Agenda**. It was well attended, even though it conflicted with a few sessions of relevance to the section, with 46 members signing the attendance sheets (**Attachment 2 – Business Meeting Attendance**). Section Chair Dawn Robinson presided over the first half of the meeting – through the reports of standing committees. At that point, she left to get to the business meeting of the Sociology of Emotion Section in order to accept an award from that section. Chair-Elect Noah Mark took the gavel from there and presided over the reports of ad hoc Committees and new business. Secretary-Treasurer Pamela Emanuelson was unable to make it the annual meetings. Emanuelson submitted a report on the section's financial health ahead of the meetings. Council-member Cassie McMillan took the minutes (see **Attachment 3 – Business Meeting Minutes**)

Council Meeting

Copy and paste below (or attach separately) the agenda and draft/approved meeting minutes of all council meetings. Minutes must include a list of council members present and a summary of decisions made. Minutes are not a transcript of proceedings, but a listing of what discussions took place and official actions taken.

Council Meeting Agenda/Minutes

The Council meeting for the Mathematical Sociology Section took place at 11:30-1:00 on Friday, August 18, 2023 at Iron Hill – Center City. Attending: Dawn T Robinson, Noah Mark, Kevin Lewis, Cassie McMillan, Lynn Smith-Lovin, Weihua An, Roberson Beauville, Xi Song, Loring Thomas, Diane Felmlee, Diego Leal, Laura Nelson, Elizabeth Roberto.

Robinson welcomed new Council Members and thanked the continuing and outgoing members for the work on section affairs.

Robinson gave the financial report on behalf of Sec-Treasurer Emanuelson who could not make it to the meetings. The council had a brief discussion about the financial health of the section, expressing concern for the losses to the investment funds during the previous year.

In Emanuelson's absence, Cassie McMillan volunteered to take minutes at the afternoon Business Meeting. Kevin Lewis agreed to serve as Parliamentarian, as required by our Section Bylaws.

Council voted to re-appoint Diego Felipe Leal and Jorge Zazueta Guterrez as Newsletter Editors for the following year.

Council considered a proposal by Chair-Elect Noah Mark to let the *ad hoc* committees on Membership Affairs, External Affairs, and Diversity, Equity, and Inequality expire and replace them with a committee that combined these missions, with subcommittees for the new mentoring program, student affairs, external affairs, and so on as needed. Council discussed several variations of this model and voted to bring a proposal to the Business Meeting for a vote (see **Attachment 3 – Business Meeting Minutes** and **Attachment 4 – Proposed Bylaw Changes**).

Council discussed another bylaw change whose consideration was requested by ASA – changing the transfer of duties for elected section officers from the day after the annual meetings to September 1 annually. After some discussion, the Council voted to bring this proposal to the Business Meeting.

Council also discussed the new mentoring program and some potential changes to its structure and to its name. There was a proposal to name the Mentoring Program after Tom Fararo, who bequeathed a generous gift to the section whose funds might be used to support a mentoring banquet or other mentoring event. That inspired a further discussion about the naming of section awards and programs in light of concerns about diversity and inclusion. Council members floated several proposals about award/program naming practices – including suggestions about adding new names to some existing awards, about replacing names of existing awards with new names, about making a policy that the name attached to any award expires after 5 years at which time the award is renamed, and the possibility of getting rid of all personal names attached to section awards and programs. Council discussion was productive but did not develop to a clear consensus and so the Council voted to table this discussion and continue it over email this coming year. We further voted not to name the new mentoring program in the Bylaws change being proposed this year.

Awards

Provide a list of Section awards and awardees conferred in the past year.

ASA Mathematical Sociology Section Awards 2023

The section recognized the following section members for their outstanding accomplishments this year.

Award for Progress in Mathematical Sociology

Lynn Smith-Lovin, Robert L. Wilson Distinguished Sociology Professor, Duke University
for work on:

contemporary formalization of affect control theory

Outstanding Article Publication Award in Mathematical Sociology

Recipient:

[Scott W. Duxbury, University of North Carolina & Dana L. Haynie, The Ohio State University](#)
for the article:

2021. "Shining a Light on the Shadows: Endogenous Trade Structure and the Growth of an Online Illegal Market." *American Journal of Sociology* 127:3, 787-827

Honorable Mention:

[Andrea Voyer, Stockholm University & Zachary D. Kline, University of Connecticut](#)
for the article:

2022. "From Strange to Normal: Computational Approaches to Examining Immigrant Incorporation Through Shifts in the Mainstream." *Sociological Methods & Research* 51(4), 1540–1579 (w/ Tatiana Volkova and Madison Danton)

Outstanding Graduate Student Paper Award in Mathematical Sociology

Recipient:

[Oscar Stuhler, New York University](#)

for the paper:

2022. "Who Does What to Whom? Making Text Parsers Work for Sociological Inquiry." *Sociological Methods & Research* 51(4): 1580-1633.

Honorable Mention:

[Chen-Shuo Hong, University of Massachusetts, Amherst](#)

for the paper:

"Cultural Matching in Networks: A Combination of Machine Learning and Exponential Random Graph Models to Examine Homophily in Identity Performance."

Geoffrey Tootell Mathematical Sociology Outstanding Dissertation-in-Progress Award

[Bernardo Mackenna, University of California-San Diego](#)

for the dissertation project:

"The Ties that Bind: Socioeconomic Segregation in Interpersonal Networks and Prosocial Attitudes and Behavior."

Harrison White Outstanding Book Award

No award given in 2023.

2023 Finances

Provide a narrative on how the 2023 budget matched with actual expenses and income from 2023. Please account for any substantive differences.

The Section Financial Reports for are presented in **ATTACHMENT 5 – Treasurer’s Finance Report** and **ATTACHMENT 6 – ASA Year End Financial Report**. In our primary account we had \$1,903 in income and spent \$1,946 on reception expenses and the student paper award. We shared the reception space, food and drinks with seven other sections to defray costs. This allowed us to have a nice well attended event with plenty of food and drink in a lovely venue with space for people interact in within and between section gatherings. By all accounts, it was a success. As has been customary in our section, the Chair

covered some costs, including the lunch for the Council meeting and the award certificates for this year's award winners.

To reduce costs, Council decided last year to move to certificates rather than plaques for our awards, and to continue to share reception facilities with other sections when possible. This allowed us to stay close to our budget and kept the Chair's out of pocket expense to the Council lunch meeting and the award certificates.

The Section's two other accounts both lost money this year due to losses on investments. The general account lost small amount (\$43; see ATTACHMENT 6). For the second year in a row, the Dissertation Fund account lost a considerable amount (\$46,799.57 losses on investments). After taking into account expenses for 2022 and 2023 dissertation awards, both charged this year, along with dividends, interest, losses, and investment management fees, **this fund was depleted by \$50,850 as of July 2023**. This second straight year of significant loss seems out of keeping with the market and out of scale with the performance of the other fund. So, we are somewhat concerned about the investment approach being used by ASA for these funds.

The Previous Year

Describe Section activities during the period between September 2022 and August 2023.

Provide an overview of the Section's communications with its members and include explanation of how your communication strategy meets the goals and values of the Section. Include links to the section website, newsletters, and any other electronic media used.

This year's Section communications took place through ASA Connect. This seemed like it might have eventually been a great resource, but the roll out was challenging. Early settings made it difficult to send emails to the membership – which was also discouraged in ASA trainings and communication in order to allow members to choose their own digital consumption patterns through their communication settings. The original ASA Connect settings also made a mess of formatting communications and made it impossible to send attachments. So, it was difficult to communicate to those who preferred to have their information show up in their inboxes. We made a go at keeping information on our ASA Connect site updated and informative. What I heard from section members this year was that this was only partially successful. Many said they 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 never received section news. Over the course of the year, the settings for ASA Connect got better for communicating via email but by that time the experiment was nearly over. In the meanwhile, we discontinued our earlier website, thinking that it would be redundant to ASA Connect. So, now, we are searching for a new Webmaster and website solution to replace some of the features provided by ASA Connect.

Following recent years, the section published two newsletters this year, see ATTACHMENT 7 – 2023 Mathematical Sociology Section Newsletters

Describe the Section's diversity, equity, and inclusion goals. What steps were taken this year to achieve those goals?

The goals of the section with regard to DEI are best summarized by the charge to our ad hoc DEI Committee.

Ad Hoc Committee on Diversity, Equity, and Inclusion in Mathematical Sociology

Committee Goals:

- (1) Working to diversify and grow section membership;
- (2) Encouraging those involved in forming committees and soliciting and reviewing nominations/submissions for awards to pursue diversity, equity, and inclusion and reduce conflicts of interest in committee staffing, nominations/submissions, and selection of awardees;
- (3) Being mindful of the language used in soliciting award nominations and employing inclusive language to encourage submissions from a diverse pool of candidates;
- (4) Encouraging those involved in organizing ASA sessions to pursue diversity, equity, and inclusion and reduce conflicts of interest in paper submissions and selection of presenters;
- (5) Helping to ensure accountability and transparency by reporting on our goals, efforts, and results, including:
 - (a) Representation in membership and member retention
 - (b) Representation in those serving on our committees
 - (c) Representation in award submissions/awardees
 - (d) Representation in ASA submissions/presenters

Action Steps:

- (1) Bolstering recruitment efforts to grow and diversify the membership of the section
- (2) Work with Nominations Committee and section and committee chairs to promote diversity and inclusion in staffing committees and section offices
- (3) Work with awards committees to promote diversity and inclusion in soliciting submissions and equity in awardee selection
- (4) Work with Program Committee to promote diversity and inclusion in soliciting ASA submissions and equity in presenter selection
- (5) Working with the ad hoc Membership Affairs Committee to develop the new Section mentoring program

This year, several efforts were made to accomplish those goals. Building on recent section practices, members of the DEI Committee served as liaisons to the Council, to Nominations Committee, and to the new Membership Affairs Committee to help facilitate section procedures and award practices that are inclusive and equitable and to ensure we had a diverse set of nominees for office, and that our new mentoring program is developed to align with our DEI mission as stated above.

This year's DEI committee consisted of:

Roberson Beauville, Emory University
Mamadi Corra, Eastern Carolina University
Anthony Paik (Chair), University of Massachusetts, Amherst
Elizabeth Roberto, Rice University
Dawn T Robinson, University of Georgia – ex officio
Lynn Smith-Lovin, Duke University – ex officio

The DEI Committee worked on a couple of issues this past year. First, we sought to identify graduate students and early career sociologists who were not members of our section but had scholarly interests in mathematical sociology. Our thinking was that recent cohorts of graduate students and early career

sociologists would tend to have higher percentages of women and non-binary sociologists and higher percentages of sociologists of color. We identified 152 ASA members meeting these criteria and reached out to all of them via email to recruit them into the Section and to invite them to attend the Section's events at these meetings. Second, the DEI committee also worked on governance issues. We discussed ideas about formalizing DEI work in a standing committee of the Section. We also provided feedback to section leadership regarding diversity in the Section's committees.

The last two years of membership drives have substantially increased our number of section members who are people of color (albeit from a very small base). More dramatic gains have been made in gender—the number of women in the section has more than doubled since 2017. People of color play prominent roles in the section, serving as newsletter co-editors, on Council. And on the DEI committee. A section that historically had very few student members is now almost a third students.

The DEI Committee worked with the Membership Affairs Committee as they developed the inaugural version of our formal mentorship program, to bring mentors and mentees together both throughout the year, and at the ASA meetings (more on that below).

Finally, Chair Robinson followed the practice initiated by Past Chair Lynn Smith-Lovin of including a former award recipient, a student member, and a continuing member who served on the committee the year before on each award committee. Since our award recipients and our student members are more diverse than the section as a whole, this serves to make award committees more diverse—in socio-demographic terms, intellectually and in terms of career stage. The continuing member can alert the committee to any procedural or DEI issues that might have occurred the year before, and need attention.

Provide an overview of the section's programming at the annual meeting and include explanation of how this programming meets the goals and values of the section (e.g. intellectual exchange, professional networking, mentoring, inclusion).

This year's Program Committee was as follows:

Ronald L. Breiger, University of Arizona

Bryan Christopher Cannon, Franklin and Marshall College

Tim Futing Liao, University of Illinois

Noah Mark, (*Ex Officio*), University of North Carolina at Charlotte

Mario D. Molina, New York University Abu Dhabi

Anthony Paik, University of Massachusetts-Amherst

Dawn T. Robinson (*Chair, Ex Officio*), University of Georgia

In the previous year (2021-2022), we receive an additional session when our membership surpassed 300 and an extra session because our Section Day was on the final day of the Annual Meeting. Then-Chair Lynn Smith-Lovin used the opportunity begin 2-year co-sponsorship arrangements with the sections on Culture, Methodology, and Inequality, Poverty, and Mobility. We hoped that these three sessions would signal our interest in formal, mathematical work in these topics, and would help draw a new, more diverse set of members into our section. We made the sessions open-submission, to encourage broadest possible participation. All three sessions were a big draw.

This year, we had the second co-sponsored sessions with those partners and used our two allotted sessions to begin another couple of 2-year co-sponsorship arrangements – with Social Psychology and the Rationality and Society sections. As is our practice, we used the 1-hour session adjacent to our business meeting to host the James S. Coleman Address. This year’s speaker was Guillermina Jasso (see **Attachment 9 – 2023 Mathematical Sociology Section Annual Meeting Programming**

This resulted in a high quality and intellectually diverse set of **six paper sessions** on this year’s Annual Meeting program. Unfortunately, three of these six sessions were scheduled on Monday, August 21 at 8:00 am. **This means that in a year when our section day was the first day of the meetings, more than half of our section’s official programming was scheduled on the last day of the meetings and at exactly the same time.** Moreover, as section Chair, I was scheduled to present in yet a different session scheduled at the same time as our three section cosponsored paper sessions. For a small section like ours, this was extremely unfortunate and led to widespread frustration. Attendees at each of these sessions reported that the presentations were high quality and the audience was engaged – but mathematical sociologists were divided pretty thinly across these events.

Next year, we should benefit again from the second year of the two new co-sponsorship arrangements and be able to initiate new partnerships with the allotted section sessions. The Section Council remains enthusiastic about continuing the practice of session co-sponsorship in order to demonstrate the intellectual connections between mathematical sociology and a broad array of substantive, theoretical, and practical concerns across the discipline.

Provide an overview of the Section’s programmatic activities outside of the Annual Meeting (e.g. webinars, networking events, mentoring initiatives, resources for dissemination) and include explanation of this programming meets the goals and values of the Section.

Besides the yearlong communications to the membership on ASA Connect regarding jobs, fellowships, conferences, calls for papers, etc., and the efforts of the DEI committee as discussed above, the primary Section activities outside of the Annual Meeting were the efforts of the two new ad hoc committees, Membership Affairs, and External Affairs.

Membership Affairs

The Membership Affairs Committee was composed as follows:

Noah Mark (Chair), University of North Carolina Charlotte

Roberson Beauville, Emory University

Mamadi Corra, Eastern Carolina University

Victoria Money, University of South Carolina

Jun Zhao, University of South Carolina

After deliberating and consulting with the DEI committee, they organized the first annual Mathematical Sociology Mentoring Program. They distributed a survey via ASA Connect and received expressions of interest from 20 Prospective Mentees (16 student members, 4 regular members) and 15 Mentors. They matched 20 Mentor-Mentee pairs who began communicating with each other in the summer prior to the Annual Meeting. They organized a Student Mentor Team to attempt to increase student member engagement and facilitate retention. The team engaged in outreach to all 94 student members (46 of whom were new this year) and plans to serve as a welcoming committee for new Section members.

They further developed a plan to merge the activities of the Membership Affairs, External Affairs, and DEI Committees into the mission of a joint committee, the Membership Inclusion and Community Committee, as described in the discussion of the Business Meeting and presented in **Attachment 4 – Proposed Bylaw Changes**. The idea is to continue the efforts of the recent years' DEI initiatives but in a way that integrates these goals and efforts with the central activities of the Section – rather than keeping them relegated to a separate stream of efforts.

External Affairs

This was a developmental year for the new ad hoc External Affairs Committee. The Chair, Elisa Bienenstock, consulted with mathematical sociologists in and out of academia and in and out of ASA to develop a set of strategies for making the work of mathematical sociologists within the section more visible to outside constituencies – scholars outside academe, scholars outside the discipline, and knowledge consumers in government agencies, policy-makers, and publics who might benefit. Bienenstock published an article outlining the plans for this new initiative in the summer newsletter (**Attachment 8**).

In the coming year, this committee plans to develop a webinar to connect section members with mathematical sociologists working in industry and government. If the proposed bylaws are approved, these initiatives will become part of the mission of the Membership Inclusion and Community Committee.

2023

James S. Coleman Address

Dr. Guillermina Jasso, Professor of Sociology and Silver Professor of Arts
and Science at New York University

Mathematical Sociology
Section of the ASA
Business Meeting

5:00-5:30 pm ~ August 18, 2023

Philadelphia, PA

Mathematical sociology section business meeting agenda

- Reports – Standing Committees
 - Treasurer and Council Reports - Dawn T Robinson
 - Program Committee – Dawn T. Robinson
 - Award Presentations
 - Nominations – Lynn Smith-Lovin, Chair
- Reports – ad hoc Committees
 - DEI Committee, Tony Paik, Chair
 - Member Affairs Committee, Noah Mark, Chair
 - External Affairs Committee, Elisa Bienenstock, Chair
- New Business
 - Bylaws Changes (need votes at business meeting in order to put on ballot)

Treasurer and council report

- Membership and Finances
 - Members: 314 (yesterday)
 - General funds: \$51,169
 - Endowment fund: \$239,673.17
- Newsletter Editors Re-appointed (Diego Felipe Leal and Jorge Zazueta Guiterrez)
- Re-authorized ad hoc committees
 - Diversity, Equity, Inclusion Committee
 - Membership Affairs Committee
 - External Affairs Committee
- Bylaws changes (new business)

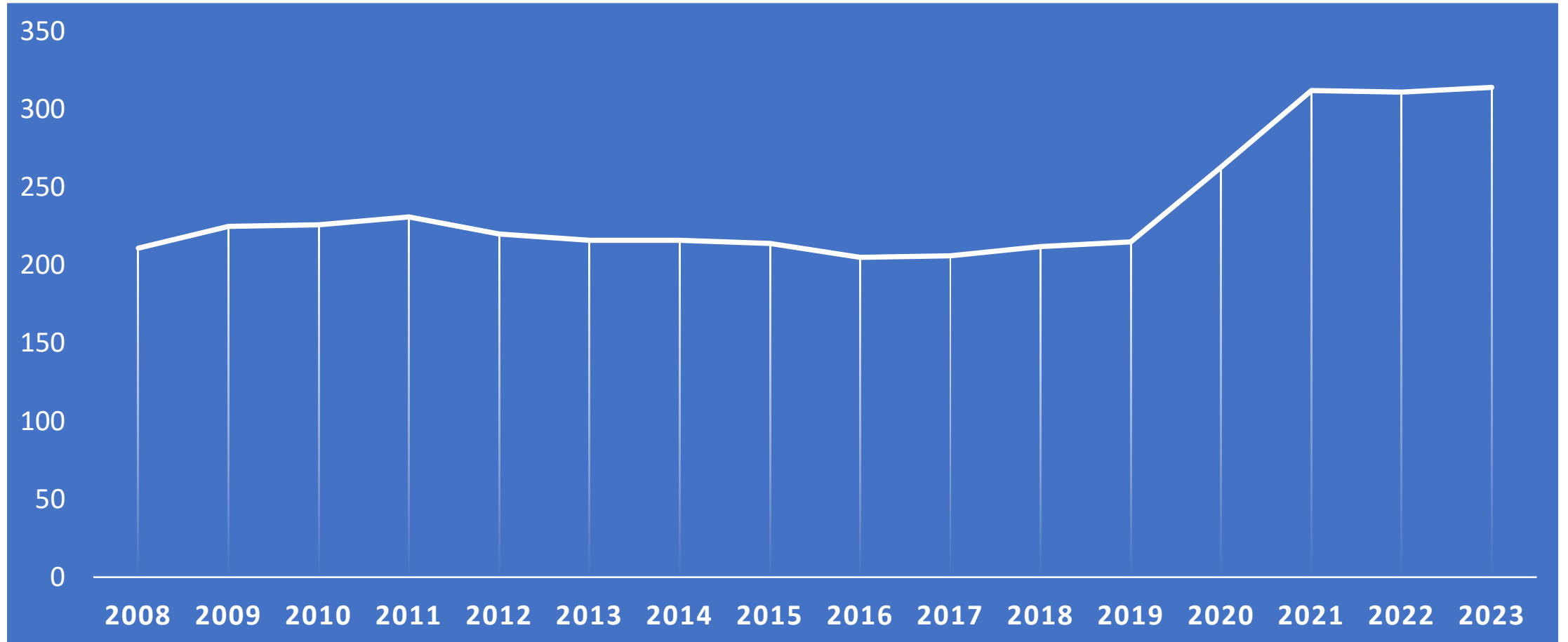




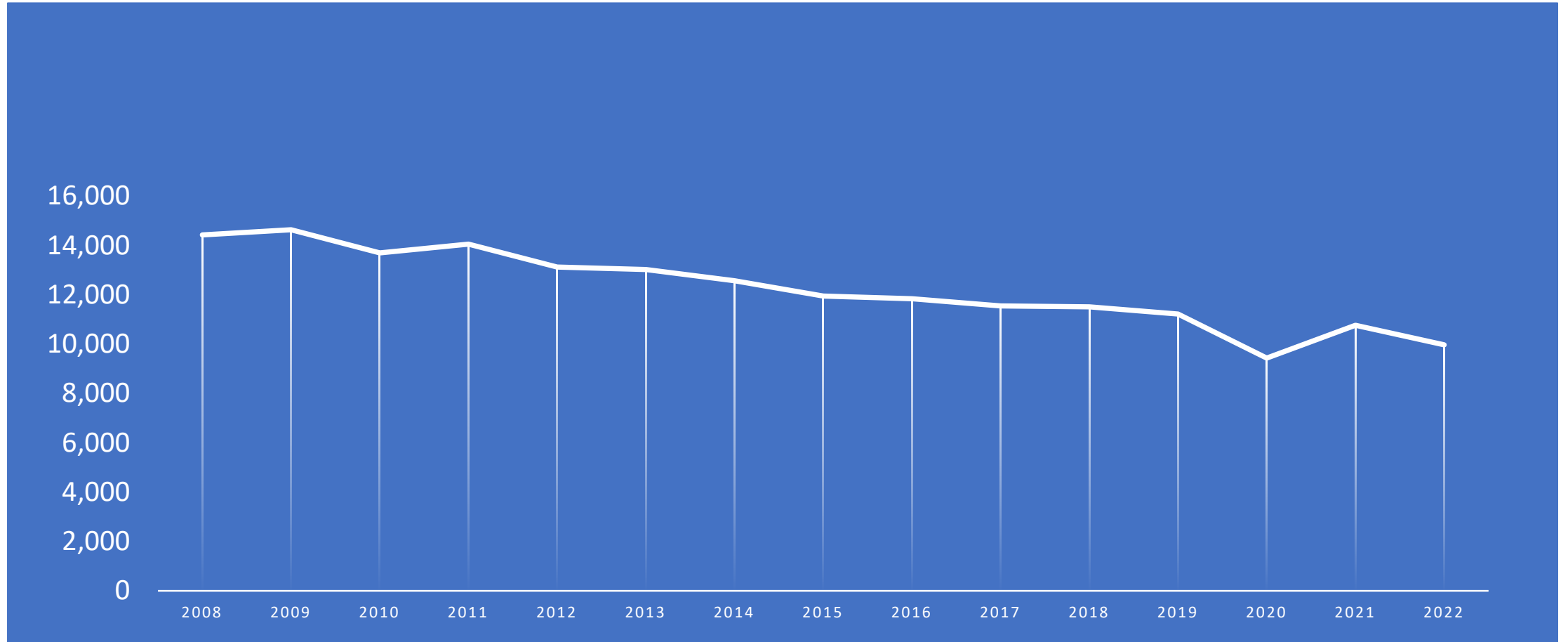
Mathematical Sociology is a Big Tent

- Formal theoretical sociology
- Social networks
- Formal demography
- Computational sociology

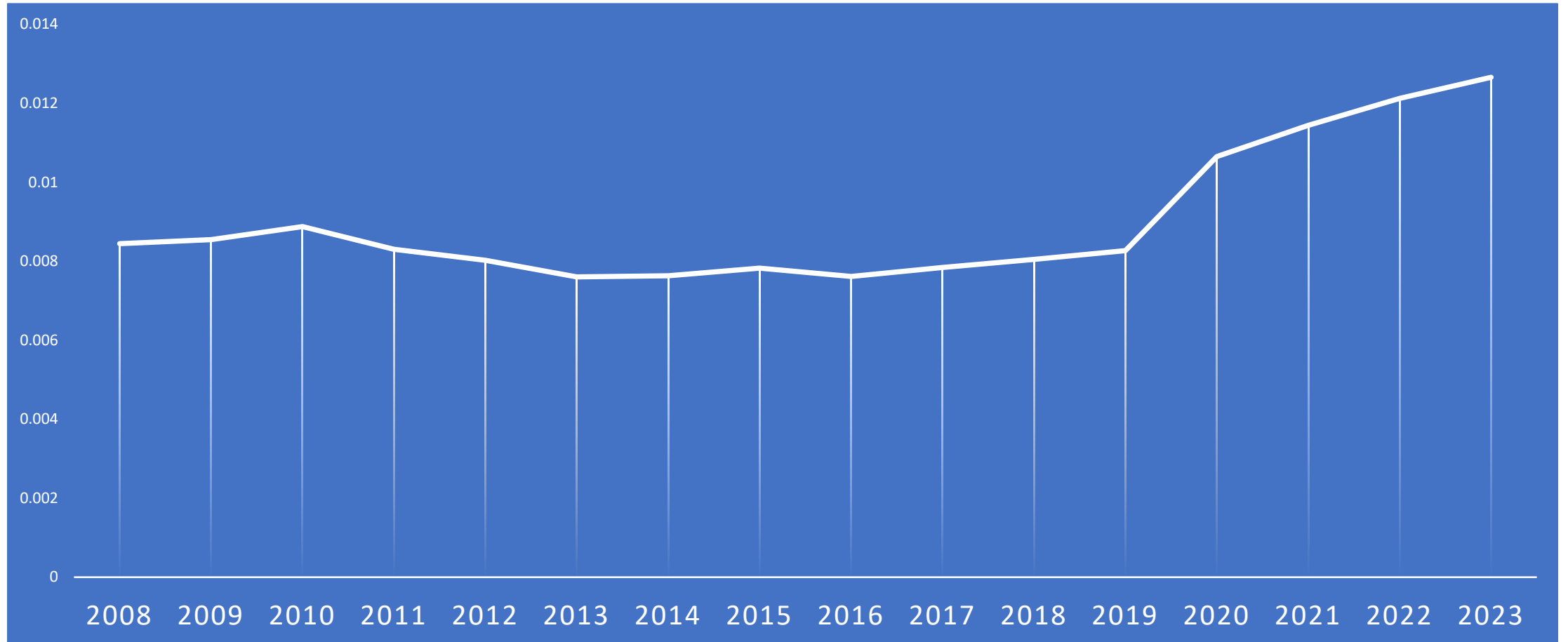
Mathematical Sociology Section Membership 2008-2023



American Sociological Association Membership 2008-2022



Math Soc Membership as Share of Total ASA Section Memberships



Program committee

Dawn T. Robinson (*Chair*), University of Georgia

Ronald L. Breiger, University of Arizona

Bryan Christopher Cannon, Franklin and Marshall College

Tim Futing Liao, University of Illinois

Noah Mark, University of North Carolina at Charlotte

Mario D. Molina, New York University Abu Dhabi

Anthony Paik, University of Massachusetts-Amherst

Awards Committees

- Progress in Mathematical Sociology Award – Jennie Brand
- Tootell Dissertation Award – Cassie McMillan
- Graduate Student Paper Award – Weihua An
- Outstanding Article Award – Jun Zhao

2023 Progress in Mathematical Sociology Award

Lynn Smith-Lovin, Robert L. Wilson Professor of Sociology, Duke University
for contributions to the modern specification of affect control theory

Committee:

Jennie E. Brand (Chair), University of California, Los Angeles

Omar Lizardo, University of California, Los Angeles

Fabio Rojas, Indiana University

Jane Sell, Texas A&M University

John Skvoretz, University of South Carolina

Geoffrey Tootell Outstanding Dissertation-in-progress

Bernardo Mackenna, University of California-San Diego

"The Ties that Bind: Socioeconomic Segregation in Interpersonal Networks
and Prosocial Attitudes And Behavior."

Committee:

Cassie McMillan (Chair), Northeastern University

Jaemin Lee, The Chinese University of Hong Kong

Michael Schultz, Indiana University

Jan E. Stets, University of California, Riverside

Loring Thomas, University of California-Irvine

Outstanding Graduate Student Paper

Recipient: **Oscar Stuhler**, *New York University*

2022. “Who Does What to Whom? Making Text Parsers Work for Sociological Inquiry.”
Sociological Methods & Research 51(4): 1580-1633.

Honorable Mention: **Shen-Shuo Hong**, *University of Massachusetts, Amherst*

“Cultural Matching in Networks: A Combination of Machine Learning and Exponential Random Graph Models to Examine Homophily in Identity Performance.”

Committee:

Weihua An (*Chair*), Emory University

Aiden Combs, Duke University

Thomas Davidson, Rutgers University

Ian Lundberg, Cornell University

Mustafa Yavas, NYU Abu Dabi

Outstanding Article

- **Recipient: Scott W. Duxbury, *University of North Carolina* & Dana L. Haynie, *The Ohio State University***
- 2021. “Shining a Light on the Shadows: Endogenous Trade Structure and the Growth of an Online Illegal Market.” *American Journal of Sociology* 127:3, 787-827
- **Honorable Mention: Andrea Voyer, *Stockholm University* & Zachary D. Kline, *University of Connecticut***
- 2022. “From Strange to Normal: Computational Approaches to Examining Immigrant Incorporation Through Shifts in the Mainstream.” *Sociological Methods & Research* 51(4), 1540–1579 (w/ Tatiana Volkova and Madison Danton)

Committee:

Emma Spiro (*Chair*), University of Washington

Austin Kozlowski, University of Chicago

David Schaefer, University of California, Irvine

Yongren Shi, University of Iowa

Jun Zhao, Georgia State University

Nominations

Welcome to our new officers:

Chair-Elect: **Diane H. Felmlee**, *Pennsylvania State University*

Council Members : **Laura K. Nelson**, *University of British Columbia*
Xi Song, *University of Pennsylvania*

Council Member, Student: **Loring Thomas**, *University of California, Irvine*

Committee:

Lynn Smith-Lovin, Chair

Neha Gondal, Boston University

Tim Liao, University of Illinois

Christopher S. Marcum, U.S. White House Office of Science and
Technology Policy

Laura K. Nelson, University of British Columbia

Passing the Gavel



DEI Report

Active recruitment of early career scholars

- Invitations to 152 sociologists to join mathematical sociology

Worked with nominations committee on slate

Worked with membership affairs committee on new mentoring program and bylaws amendments

Committee:

Roberson Beauvile, Emory University

Mamadi Corra, Eastern Carolina University

Anthony Paik (*Chair*), University of Massachusetts, Amherst

Dawn T Robinson, University of Georgia

Lynn Smith-Lovin, Duke University

Elizabeth Roberto, Rice University

Membership affairs

Committee:

Noah Mark (Chair), University of North Carolina Charlotte

Roberson Beauvile, Emory University

Mamadi Corra, Eastern Carolina University

Victoria Money, University of South Carolina

Jun Zhao, University of South Carolina

Thomas J. Fararo Mathematical Sociology Mentoring Program, Year 1

- 20 Prospective Mentees (16 student members, 4 regular members)
- 20 Mentor-Mentee Pairs Matched
- 15 Mentors (2 were mentees too)

Improvements to Fararo Mentoring Program for Next Year

- Student Mentor Team (increase student member engagement and retention)
- Outreach to All Student Members (94 student members; 46 new since January)
- Mentor Matching Via Student Mentor-Mentee Pair Initiated Network Search

2 Proposed Bylaws changes

- I. Change officer transition date from 'day after ASA meeting' to September 1st
 - *Rationale*: align with ASA and other sections; allow chairs to complete various tasks after meetings
 - Vote: bring this change to a ballot of the membership in the spring election

- II. Create new standing committee on Membership, Inclusion, and Community
 - *Rationale*: make permanent the activities of the 3 ad hoc committees (DEI, Membership Affairs, External Affairs)
 - Vote: bring this change to a ballot of the membership in the spring election

Draft of a Proposed Amendment to the Mathematical Sociology Section Bylaws Establishing the Membership, Inclusion, and Community Committee

It is proposed that the paragraphs below be inserted into the present bylaws in section “IV. Committees.” The following would be placed between “C.” and “Other Ad Hoc Committees,” making what is below subsection C and the subsection on “Other Ad Hoc Committees” sub-section D.

There shall be a Membership, Inclusion, and Community (MIC) Committee of at least six members, chaired by a member of the section appointed by the Section Council. The Section Chair and Chair-elect serve as ex officio members of this committee. The remaining members of this committee are appointed each year by the Section Council. All members of this Committee shall be Section members. This committee is charged with ensuring a stable and robust membership base, with increasing, diversity, equity, and inclusion within the Section, and with improving the Section's connection and visibility to individuals and organizations outside the ASA.

The MIC Committee shall include three sub-committees charged with general goals as identified here and with specific tasks as identified by Council or by the MIC Committee.

The Membership Affairs Sub-Committee is charged with ensuring a stable and robust membership base and with improving how well the Section serves its members. These goals shall be pursued with attention to the goals charged to the other MIC sub-committees.

The Diversity, Equity, and Inclusion Sub-Committee is charged with increasing diversity, equity, and inclusion within the Section and its substructures, with attention to the goals charged to the other MIC sub-committees.

The External Affairs Sub-Committee is charged with improving the Section's connection and visibility to individuals and organizations outside the ASA, with attention to the goals charged to the other MIC sub-committees.

Members of each sub-committee shall be appointed by Council or by the MIC Committee itself. Each sub-committee shall have at least one member, and any arrangement of comembership among sub-committees is permissible.

- Vote to bring new standing committee MIC to a ballot of the membership in the spring
- New Business?
- Announcements
 - Reception: Tir na nOg 6:30 pm
- Adjourn

Business Meeting
Math Sec.

Name	Institution
Jani Sell	Texas A&M
Scott Aurbury	UNC
Dana Haynie	OSU
Kenneth Kead	Duke U
Benjamin Fields	UCR
Wm. Krizka	UCR
Victoria Money	UofSC
Elida Izani Ibrahim	Stockholm Uni
Elis Collberg Larsson	IAS
Nicolas Kattan	USC
Elizabeth Roberto	Rice
Hsuan-wei Wayne Lee	Academia Sinica
Jeffrey Shen	U of Arizona
DIEGO (EAC)	U of ARIZONA
Serg Sagnic	UC San Diego
H. Jagan	NYU
Roberson Beauville	Emory
John Jacob Thomas	Chinese U of Hong Kong
Peng Huang	UC Irvine
JOHN SKYBRETZ	U OF S FLORIDA
Bernardo Mackenna	UC San Diego
Kenn Lewis	UC San Diego
Zachary D Kline	UCONN
Liann Tucker	RTI International
Joseph Quinn	Univ. of South Carolina
Maurice Bokanga	UChicago
Barbara Meeber	U. Maryland

Math Soc Bus. Attendance

Kinga Nakori
Nanum Jeon

~~Janet Kell~~

Taylor Beauvais

Yujia Lyu

Tenshi Kanashima

Jun Zhao

Ihsen Kahveci

Weihua An

Loring Thomas

Selena Liras

Sabrina Mai

Ronald Breizer

John J. M.

Lynn Smith-Lovin

Diane Felmler

Both proposed amendments to go onto ballot ~~passed~~

46 - 0

subject = ~~not attending~~



Name	Institution
Cheng Wang	Wayne State University
Scott Leo Renshaw	Carnegie Mellon University

ASA Section on Mathematical Sociology Business Meeting

Friday, August 18, 5:00 -5:30PM

Notes taken by Cassie McMillan, Council Member

I. Chair Dawn Robinson welcomed the membership, called the meeting to order and requested attendance sign ups.

II. Reports – Standing Committees

Treasurer and Council Reports - Dawn T Robinson

Membership and Finances Update

Newsletter Editors Re-appointed by Council

Diego Felipe Leal and Jorge Zazueta Guterrez

Council voted to propose a Bylaws change (will be discussed in new business)

Program Committee – Dawn T Robinson

Thanks to the session organizers for organizing five outstanding sessions – a note about the previous session and the three section sessions to take place at the same time on Monday morning

Award Presentations

Progress in Mathematical Sociology Award, Jennie Brand, Chair

Geoffrey Tootell Outstanding Dissertation-in-Progress Award, Cassie McMillan, Chair

Outstanding Article Award, Jun Zhao, Committee member

Outstanding Graduate Student Paper Award Weihua An, Chair

Nominations – Lynn Smith-Lovin, Chair

Thanks to the committee members and welcome to our new officers.

The gavel was passed here to Noah Mark, Chair-elect, so that Dawn Robinson could leave for another section's business meeting.

III. Reports – ad hoc Committees

DEI Committee, Tony Paik, Chair

Member Affairs Committee, Noah Mark, Chair

External Affairs Committee, Elisa Bienenstock, Chair

IV. New Business

2 Proposed bylaw changes

1. Change officer transition date from 'day after ASA meeting' to September 1st
Rationale: align with ASA and other sections; allow chairs to complete various tasks after meetings
Vote: to bring this change to a ballot of the membership in the spring election
This motion passed unanimously, roughly 50-0

2. Create new standing committee on Membership, Inclusion, and Community
Rationale: make permanent the activities of the 3 ad hoc committees (DEI, Membership Affairs, External Affairs). Show the section commitment to DEI issues by integrating these concerns with the membership affairs and the external affairs missions.
Vote: to bring this change to a ballot of the membership in the spring election
There was a question from the membership about the reason behind doing this. Noah Mark explained that we've had these committees as *ad hoc* committees for the past few years. Making one standing committee that encompasses all of them will make it so we don't have to reinstate the *ad hoc* committees every year. R This item also passed unanimously.

V. Adjourn

Draft of a Proposed Amendment to the Mathematical Sociology Section Bylaws Establishing the Membership, Inclusion, and Community Committee

It is proposed that the paragraphs below be inserted into the present bylaws in section “IV. Committees.” The following would be placed between “C.” and “Other Ad Hoc Committees,” making what is below subsection C and the subsection on “Other Ad Hoc Committees” subsection D.

TEXT TO BE ADDED:

There shall be a Membership, Inclusion, and Community (MIC) Committee of at least six members, chaired by a member of the section appointed by the Section Council. The Section Chair and Chair-elect serve as ex officio members of this committee. The remaining members of this committee are appointed each year by the Section Council. All members of this Committee shall be Section members. This committee is charged with ensuring a stable and robust membership base, with increasing, diversity, equity, and inclusion within the Section, and with improving the Section’s connection and visibility to individuals and organizations outside the ASA.

The MIC Committee shall include three sub-committees charged with general goals as identified here and with specific tasks as identified by Council or by the MIC Committee.

The Membership Affairs Sub-Committee is charged with ensuring a stable and robust membership base and with improving how well the Section serves its members. These goals shall be pursued with attention to the goals charged to the other MIC sub-committees.

The Diversity, Equity, and Inclusion Sub-Committee is charged with increasing diversity, equity, and inclusion within the Section and its substructures, with attention to the goals charged to the other MIC sub-committees.

The External Affairs Sub-Committee is charged with improving the Section’s connection and visibility to individuals and organizations outside the ASA, with attention to the goals charged to the other MIC sub-committees.

Members of each sub-committee shall be appointed by Council or by the MIC Committee itself. Each sub-committee shall have at least one member, and any arrangement of comembership among sub-committees is permissible.

D.

Finance Report 2022-2023

Mathematical Sociological Section of the American Sociological Association

- I. Membership Numbers
 - a. 8-7-2023; 310 members

- II. APPROPRIATED FUNDS INCOME & EXPENSE (As of July 31, 2023)
 - a. Income
 - i. Other Income \$209
 - ii. Section Budget Allocation 1,659
 - iii. Total Income 1,868
 - b. Expenses
 - i. Annual Meeting Reception Expenses 564
 - ii. Award Expenses 500
 - iii. Total Expenses 1,064
 - c. Increase/(Decrease) in Net Assets \$804

 - d. NET ASSETS
 - i. Net Assets - Beginning Balance \$50,365
 - ii. Increase/(Decrease) in Net Assets 804
 - iii. Net Assets - Ending Balance \$51,169

 - e. EXPLANATIONS
 - i. \$500 Grad Student Paper Award sent June 5th
 - ii. \$564.28 Deposit for Reception Expenses
 - 1. \$881.56 Due after the meeting

- III. DISSERTATION AWARD ENDOWMENT
 - a. Revenue
 - i. Dividends and Interest \$7,073.76 (Gain)
 - ii. Gain/Loss on Investments \$46,799.57 (Loss)
 - iii. **Total Revenues \$39,725.81 (Loss)**
 - b. Expenses
 - i. Awards \$10,000
 - ii. Investment Management Fees \$1,124.77
 - iii. **Total Expenses \$11,124.77 (Loss)**
 - iv. **Change in Assets \$50,850.58 (Loss)**
 - c. EXPLANATIONS
 - i. \$10,000 includes the dissertation award for 2022 AND 2023. The award for 2022 was charged late.
 - ii. \$46,799.57 investments continued to lose money for the second year in a row.

- IV. ENDING FUND BALANCE AVAILABLE IN ENDOWMENT \$239,673.17

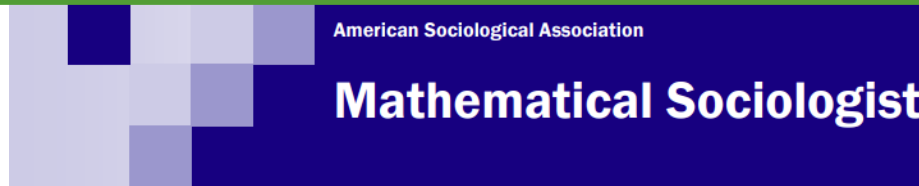
American Sociological Assn
Section on Mathematical Sociology (37)
For the Period Ended August 31, 2023

INCOME & EXPENSE	Year To Date	Acct #
Income		
Other Income	\$244	37220
Section Budget Allocation	1,659	37250
Total Income	<u>1,903</u>	
Expenses		
Annual Meeting Reception Expens...	1,446	37300
Award Expenses	500	37360
Total Expenses	<u>1,946</u>	
Increase/(Decrease) in Net Assets	<u><u>(\$43)</u></u>	
 NET ASSETS		
Net Assets - Beginning Balance	\$50,365	
Increase/(Decrease) in Net Assets	<u>(43)</u>	
Net Assets - Ending Balance	<u><u>\$50,322</u></u>	

American Sociological Assn
Section on Mathematical Sociology (37)
For the Eight Months Ending August 31, 2023

Account	GL Acct	Date	Description	Amount
Other Income:				
Other Income - Math Section				
230104W000		1/4/2023	230104W000	0.17
230107W000		1/7/2023	230107W000	0.17
230109W000		1/9/2023	230109W000	0.17
230110W000		1/10/2023	230110W000	0.17
230112W000		1/12/2023	230112W000	0.34
230115W000		1/15/2023	230115W000	0.34
230128W000		1/28/2023	230128W000	0.17
NOAH Jan Def Inc Entry		1/31/2023	NOAH Jan Def Inc Entry	25.21
230202W001		2/2/2023	230202W001	0.30
230202W000		2/2/2023	230202W000	0.15
230207W000		2/7/2023	230207W000	0.15
230209W000		2/9/2023	230209W000	0.15
230210W000		2/10/2023	230210W000	0.15
230212W000		2/12/2023	230212W000	0.15
230214W000		2/14/2023	230214W000	0.15
230215W000		2/15/2023	230215W000	0.30
230217W000		2/17/2023	230217W000	0.15
230221W000		2/21/2023	230221W000	0.15
230222W000		2/22/2023	230222W000	0.15
230223W000		2/23/2023	230223W000	0.15
230226W000		2/26/2023	230226W000	0.15
NOAH Feb Def Inc Entry		2/28/2023	NOAH Feb Def Inc Entry	21.60
230302W000		3/2/2023	230302W000	0.17
230307W000		3/7/2023	230307W000	0.17
230312W000		3/12/2023	230312W000	1.97
230316W000		3/16/2023	230316W000	0.34
230321W000		3/21/2023	230321W000	0.49
230329W000		3/29/2023	230329W000	0.17
230330W000		3/30/2023	230330W000	0.17
NOAH Mar Def Inc Entry		3/31/2023	NOAH Mar Def Inc Entry	25.92
230401W000		4/1/2023	230401W000	0.17
230405W000		4/5/2023	230405W000	0.17
230417W001		4/17/2023	230417W001	0.17
230427W000		4/27/2023	230427W000	0.34
NOAH Apr Def Inc Entry		4/30/2023	NOAH Apr Def Inc Entry	28.08
230508W000		5/8/2023	230508W000	0.17
230509W000		5/9/2023	230509W000	0.17
230523W003		5/23/2023	230523W003	0.17
3235H-MEMB		5/24/2023	3235H-MEMB	0.17
230530W000		5/30/2023	230530W000	0.36
NOAH May Def Inc Entry		5/31/2023	NOAH May Def Inc Entry	27.33
230605W001		6/5/2023	230605W001	0.17
230605W000		6/5/2023	230605W000	0.17
3238A-MEMB		6/7/2023	3238A-MEMB	0.17
230607W000		6/7/2023	230607W000	0.17
230608W000		6/8/2023	230608W000	4.92
230609W000		6/9/2023	230609W000	0.17
230614W001		6/14/2023	230614W001	1.07
230617W000		6/17/2023	230617W000	0.30
230621W000		6/21/2023	230621W000	0.17
230628W000		6/28/2023	230628W000	0.17
230629W000		6/29/2023	230629W000	0.17
NOAH Jun Def Inc Entry		6/30/2023	NOAH Jun Def Inc Entry	28.02
230710W000		7/10/2023	230710W000	1.34
230711W001		7/11/2023	230711W001	0.39
230718W000		7/18/2023	230718W000	1.98
230727W000		7/27/2023	230727W000	0.17
NOAH Jul Def Inc Entry		7/31/2023	NOAH Jul Def Inc Entry	32.43
230731W000		7/31/2023	230731W000	0.17
230814W002		8/14/2023	230814W002	0.17
230815W001		8/15/2023	230815W001	0.17

Account	GL Acct	Date	Description	Amount
NOAH Aug Def Inc Entry		8/31/2023	NOAH Aug Def Inc Entry	34.23
Total Other Income - Math Section	37220-037-20			244.01
Total Other Income	37220			244.01
Section Budget Allocation:				
Section Budget Allocation 37				
43-SECTN ALLOC		1/1/2023	43-SECTN ALLOC	1,659.00
Total Section Budget Allocation 37	37250-037-00			1,659.00
Total Section Budget Allocation	37250			1,659.00
Annual Meeting Reception Expenses:				
AM Reception ex-.Mathematical Sociology Section				
PHILLY PUBS,DEPOSIT RECEPTION		4/20/2023	PHILLY PUBS,DEPOSIT RECEPTION	564.28
PHILLYPUBSLLC,RECEPTION VENUE		8/8/2023	PHILLYPUBSLLC,RECEPTION VENUE	881.56
Total AM Reception ex-.Mathematical Sociol	37300-037-20			1,445.84
Total Annual Meeting Reception Expenses	37300			1,445.84
Award Expenses:				
Award expense - Mathematical Soc.Section				
STUHLER,GRAD STU PAPER AWARD		5/31/2023	STUHLER,GRAD STU PAPER AWARD	500.00
Total Award expense - Mathematical Soc.Se	37360-037-20			500.00
Total Award Expenses	37360			500.00



Message from the Chair: Dawn T. Robinson



From the Chair’s Desk

Hello and happy spring. The academic year is cruising along, and days are getting longer! Meanwhile,

Mathematical Sociology Section

members have been hard at work producing new scholarship, organizing events, deliberating about section awards, and innovating new ways for us to connect to each other and to constituencies outside our traditional spheres.

(continues on page 2)

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Section Officers

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University of Georgia

Section Council

Cassie McMillan
Northeastern University

Emma Spiro
U. of Washington

Chair-Elect

Noah P. Mark
UNC-Charlotte

Weihua An,
Emory University

Student Representative

Roberson Beauville
Emory University

Past Chair

Lynn Smith-Lovin
Duke University

Matthew E. Brashears
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Rice University

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A Message from the Chair Cont.

Dawn T. Robinson

Our primary mode of communication as a section has changed this year with the introduction of ASA Connect. There is no longer a section announcement listserv, and I don't have the capabilities to send traditional, newsy emails. On the upside, ASA Connect gives all section members greater control over how and when they receive section related communication. More importantly, it gives all section members the ability to post directly to our ASA Connect page. Please take some time to adjust your communication settings to match your preferred rate of engagement. And please feel free to post announcements, calls for papers, job ads, or intellectual queries on ASA Connect. Meanwhile, my deepest thanks to Diego Leal and Jorge Zazueta for putting together this newsletter to update you about section happenings.

The nominations committee got to work early this fall and put together an outstanding slate of candidates for this year's election. Please be sure to keep your membership up to date in order to be able to vote in the ASA election in April-May. Thanks to Lynn Smith-Lovin (chair), Neha Gondal, Laura K. Nelson, Tim Liao, and Christopher Marcum for their work putting together such a fabulous slate, and thanks to the candidates for being willing to stand. See the full slate elsewhere on these pages.

In addition to our standing nominations and awards committees, this year section council renewed the DEI committee and created two new ad hoc committees – a Membership Affairs committee and an External Affairs committee. The Membership Affairs committee is being chaired by section chair-elect Noah Mark, and the primary focus this year is on developing a new mentoring program for the section. The External Affairs committee is being chaired by Elisa Bienenstock, and she is developing some innovative ideas about how to keep our section connected to trained mathematical sociologists who are employed outside of academia, non-sociologists who are doing scholarly work within our domain, and potential consumers of our mathematical sociological expertise. Be on the lookout for some more information about both of these committees' activities later this spring.

Three of the awards committees – the Tootell Dissertation-in-Progress Award, the Graduate Student Paper Award, and the Award for Progress in Mathematical Sociology– have announced deadline extensions deadlines. Look in this newsletter for details and consider nominating yourself or someone else. Thanks to all of the members of our five hardworking awards committees for their work this year.

Plans are well underway for a lively and productive set of meetings in Philadelphia this August. Thanks to the efforts of Past-Chair Lynn Smith-Lovin in bringing our membership up above 300 and cultivating a large number of multiyear session cosponsoring agreements, there will be six Mathematical Sociology Section sessions on the program this year! One session will feature Guillermina Jasso delivering the James. S. Coleman Address. The remaining five will be co-sponsored open-submission paper sessions(1) Computational Sociology, organized by Mario D. Molina and co-sponsored with Methodology, (2) Modeling Cultures, organized by Juan Pablo Pardo-Guerra and Ronald L. Breiger and co-sponsored with Culture, (3) Mathematical and Computational Analyses of Inequality and Mobility, organized by Tim Liao and co-sponsored with Poverty, Inequality, and Mobility, (4) Mathematical and Computational Approaches to Agency and Social Networks, organized by Tony Paik and cosponsored with Rationality and Society, and (5) Mathematical and Computational Models and Methods in Social Psychology, organized by Bryan Cannon and cosponsored with Social Psychology.

The intellectual stimulation won't stop there. As we did last year, we will partner with six other sections (this year: Methodology, Altruism, Morality, & Social Solidarity, Sociology of Emotions, Rationality & Society, Social Psychology, and Evolution, Biology & Society) to host a reception to write home about on Saturday, August 19th at Tír na nÓg <https://tirnanogphilly.com/> at 1600 Arch St., about two blocks from the convention center. There will be complimentary drink tickets and plenty of Irish pub food to fuel your new intellectual inspirations as we hob knob with our fellow familiars and meet new scholars.

I look forward to seeing you all in Philly!

Dawn T. Robinson

Mathematical Sociology Awards - Three Deadlines Extended Until March 15th, 2023

1. Award for Progress in Mathematical Sociology

Chair: Jennie E. Brand, UCLA.

This award is given annually for a discovery, technical innovation, or invention representing a significant contribution to progress in mathematical sociology. The contribution may have been made at any time prior to the award year. While this contribution will ordinarily be described in one or more publications, this award recognizes the intellectual contribution itself and not any publication arising from it. Up to three individuals may share a given award, provided that all meet the selection criteria. The committee will generate nominations and also encourages nominations from section members. Nominators and nominees must be members of the Mathematical Sociology Section. Self-nominations are welcome. Please submit nomination letters to Jennie E. Brand, Chair (brand@Soc.ucla.edu) by March 15, 2023

2. Outstanding Graduate Student Paper Award in Mathematical Sociology

Chair: Weihua An, Emory University.

This award is given annually for a paper that makes a significant contribution to mathematical sociology. Papers can be published or unpublished. The submission can consist of a dissertation chapter but not the entire dissertation. Eligible papers must have been written while the corresponding or first author was still a graduate student and during the three years before the award year, that is, in 2020-2023. Multiple-author papers are admissible, provided that the corresponding or first author meets the eligibility requirements and no non-student is co-first author. In the case of multi-authored papers with non-student authors, a letter from the most senior non-student author is required, which describes the student(s) contributions. Nominators and nominees must be members of the Mathematical Sociology Section at the time the nomination is submitted. Self-nominations are encouraged. On multiple-author papers including non-student authors who are Section members, the award is shared by the eligible student authors. Please email (1) a copy of the paper, (2) a brief nomination letter describing the reasons for the nomination, and if relevant, (3) a co-authorship letter to Weihua An, Chair (weihua.an@emory.edu) by March 15, 2023. Faculty co-authorship letters may be sent separately in case of self-nomination; in that case, please indicate the name of the co-authorship letter writer in the nomination letter.

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

Chair: Cassie McMillan, Northeastern University.

This award, given annually, provides a grant of \$5,000 to meet some of the scholarly expenses of a student whose dissertation employs mathematics in an interesting, imaginative, or ingenious way to advance sociological knowledge. The applicant should submit a copy of the approved dissertation proposal, with a list of any requirements added by the graduate committee. The application packet should also include a letter of support from the student's sponsor, which describes the student's qualifications for completing the work and the potential importance of the project. Applicants must be members of the Mathematical Sociology section and must agree to remain members through the period to be covered by the grant. Please send a copy of the dissertation proposal and an application letter to Cassie McMillan, Chair (c.mcmillan@northeastern.edu), by March 15, 2023. (Letters of support may be sent separately in cases of self-nomination; please indicate the name of the letter writer in the application letter.)

2023 Election Slate for MathSoc Section Offices

CHAIR-ELECT

Diane H. Felmlee, Pennsylvania State University

Omar Lizardo, University of California Los Angeles

COUNCIL

Charles J. Gomez, University of Arizona

Laura K. Nelson, University of British Columbia

Hana Shepherd, Rutgers University

Xi Song, University of Pennsylvania

STUDENT MEMBER OF COUNCIL

Maurice Bokanga, University of Chicago

Loring Thomas, University of California Irvine

2023 ASA Annual Meeting – Philadelphia

1. Section on Mathematical Sociology Business Meeting

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

2. Coleman Award Session

Presenter: Guillermina Jasso. **Presenter:** Dawn T. Robinson.

3. Computational Sociology: Methods and Applications: **Co-sponsored with Methodology Section**

Session Organizer and President: Mario D. Molina, New York University 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.

4. Modeling Cultures: **Co-sponsored with the Sociology of Culture Section**

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

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.

5. Mathematical and Computational Analyses of Inequality and Mobility:**Co-sponsored with the Poverty, Inequality, and Mobility Section****Session Organizer:** Tim Futing Liao, Stony Brook University.

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 domain 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.

6. Mathematical and Computational Approaches to Agency and Social Networks:**Co-sponsored with the Rationality & Society Section****Session Organizer and President:** Anthony Paik, University of Massachusetts

This session will examine the interplay between agency and social networks through 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 will feature papers that either make novel mathematical or computational extensions or identify key empirical findings using an existing model.

7. Mathematical and Computational Models and Methods in Social Psychology:**Co-sponsored with the Social Psychology Section****Session Organizer:** Bryan Christopher Cannon, Franklin, and Marshall College.

This session will build on the longstanding connections between 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.

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## Profile: MathSoc Graduate Student Representative

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I am a mathematical sociologist through and through. As an undergraduate, I double majored in physics and sociology. My love for math is only matched by my urge to understand the causal mechanisms that underpin social problems. As a Ph.D. candidate at Emory University (currently in my third year), my research primarily focuses on using differential calculus to extrapolate the total effect of any given pathway when conducting path analysis and extending this method to Structural Equation Modeling (SEM) in general. My research goal is to use mathematical tools and techniques commonly found in physics to further our understanding of causal structures in the social sciences

My most recent article focuses on causality in network analysis. Published in the *Annual Review of Sociology*, my co-authors and I reviewed popular models and methods for causal network analysis, with a focus on causal inference threats (such as measurement error, missing data, network endogeneity, contextual confounding, simultaneity, and collinearity) and potential solutions (such as instrumental variables, specialized experiments, and leveraging longitudinal data). We covered major models and methods for both network formation and network effects and for both socio-centric networks and egocentric networks. Moreover, we discussed future directions for causal network analysis.

Currently, I am working on the second part of a three-part dissertation. The first part introduces a novel method for conducting path analysis using differential calculus in the social sciences. This method fundamentally differs from the current approach in two ways. First, it does not assume the functional form of the structural equation associated with a given path diagram (referred to as DAGs in the health sciences). The relaxing of this assumption allows for non-linear causal structures to be analyzed. Second, this method does not assume that the total effect is the sum of the direct and indirect effects, as the constituents of the total effect are necessarily unknown. Additionally, I applied this method to an extended version of The Wisconsin Model of Status Attainment.

Thus, the first part serves as an introduction and subsequent application of the method. The second part delineates the methodology behind the method introduced in part one by explicitly comparing and contrasting the mathematics of differential calculus vs the covariance algebra that underpins contemporary path analysis. The third part of my dissertation will extend on the second part by including factor analysis in the formulation. Therefore, the goal of my dissertation is to develop a new formulation of SEM-based in calculus for the social sciences.

When I am not doing research or taking classes, I love traveling across the country and competing against professional, amateur, and collegiate sprinters in the 100m dash at university and local track meets. During the week, I enjoy preparing for these bi-weekly races by lifting heavy weights at high speeds twice a week, sprinting three times a week, doing plyometrics once a week, stretching every night, and ensuring my nutrition is on point at least most of time as I love snacks. My personal goal is to break 10 seconds in the 100m dash. However, I will settle for the fun will have on this journey.

Roberson Beauville, Emory University

## Work by Members of Our Community

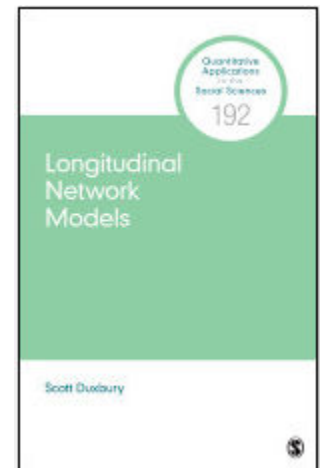
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### BOOKS

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Duxbury, Scott W. 2022. *Longitudinal Network Models*. SAGE: *Quantitative Applications in the Social Sciences* [\[Link\]](#)

**Description:** Although longitudinal social network data are increasingly collected, there are few guides on how to navigate the range of available tools for longitudinal network analysis. The applied social scientist is left to wonder: Which model is most appropriate for my data? How should I get started with this modeling strategy? And how do I know if my model is any good? This book answers these questions. Author Scott Duxbury assumes that the reader is familiar with network measurement, description, and notation, and is versed in regression analysis but is likely unfamiliar with statistical network methods. The goal of the book is to guide readers towards choosing, applying, assessing, and interpreting a longitudinal network model, and each chapter is organized with a specific data structure or research question in mind. A companion website for the book [here](#) includes data and R code to replicate the examples in the book.




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### ARTICLES & BOOK CHAPTERS

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Frank, Kenneth A., Qinyun Lin, Ran Xu, Spiro Maroulis, and Anna S. Mueller. 2022. "Quantifying the Robustness of Causal Inferences: Sensitivity Analysis for Pragmatic Social Science." *Social Science Research*: 102815. [\[link\]](#)

Jasso, Guillermina. 2022. "Notes on the History of Social Science Research: In Celebration of Its 50th Anniversary." *Social Science Research* 105: 102780. [\[link\]](#)

Jasso, Guillermina. 2022. "On the Essential Unity of Mathematics, Science, and Art: The Justice Evaluation." Pp. 57-84 in Nima Rezaei (ed.), *Transdisciplinarity. Integrated Science*, Vol 5. Cham, Switzerland: Springer [\[link\]](#)



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## Opportunities

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### **1. Call For Nomination: Herriot Award 2023**

Nominations are sought for the 2023 Roger Herriot Award for Innovation in Federal Statistics. The award is intended to reflect the characteristics that marked Roger Herriot's career, including:

- Dedication to the issues of measurement;
- Improvements in the efficiency of data collection programs; and
- Improvements and use of statistical data for policy analysis.

The award is not limited to senior members of an organization, nor is it to be considered a culmination of a long period of service. Individuals or teams at all levels within Federal statistical agencies, other government organizations, nonprofit organizations, the private sector, and the academic community may be nominated on the basis of their contributions.

Nominations for the 2023 award will be accepted until **April 14, 2023**. Nomination packages should contain the following:

- A nomination letter that includes references to specific examples of the nominee's contributions to innovation in Federal statistics. These contributions can be to methodology, procedure, organization, administration, or other areas of Federal statistics and need not have been made by or while a Federal employee.
- Up to three supporting letters that further demonstrate the nominee's contributions.
- A CV for the nominee with current contact information. For team nominations, the CVs of all team members should be included.

Nomination packages submitted for the first time in 2022 but not selected for the award may be considered again by request from the nominator.

Please see this website for more information on the award and where to send the nomination package:

<https://washstat.org/awards/herriot.html>

### **2. Online Workshop:**

Scott Duxbury will be offering an online workshop (dates TBD) on "Mediation and Moderation Analysis in ERGM using ergMargins" through the International Network for Social Network Analysis Conference

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## Newsletter Co-Editors

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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.

# 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!

(Continues on page 2)

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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](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.

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#### **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

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### **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.

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## Mathematical Sociology Awards 2023

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### 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.

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### 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 Abi

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.

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### **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.

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## Announcements

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### 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

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## 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)



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## Job Opportunities

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### 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/](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](http://sociology.uga.edu). For questions about the position, please contact Dr. Dawn T. Robinson, Search Committee Chair ([sodawn@uga.edu](mailto: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>.

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

Deadline: October, 3<sup>rd</sup>, 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>

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

Deadline: September, 8<sup>th</sup>, 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, 18th, 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, 1<sup>st</sup>, 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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## Section Committees 2022- 2023

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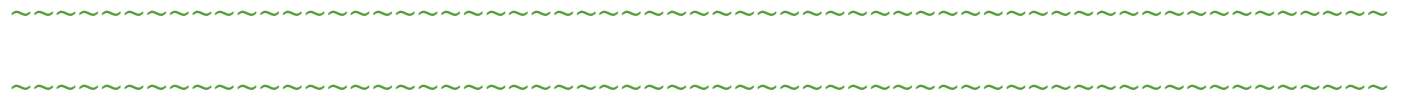
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## Committee in External Affairs

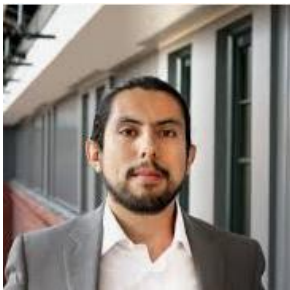
Elisa Bienenstock, Arizona State University (Chair)



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## Newsletter Co-Editors

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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.

Mathematical Sociology Section programming at the 2023 ASA

Fri, August 18

8:00 to 9:30am

Mathematical and Computational Approaches to Agency and Social Networks

Pennsylvania Convention Center, Floor: 100 Level, 105A

*Co-sponsored with the Rationality & Society Section*

Presider: Mark C. Pachucki, *University of Massachusetts-Amherst*

Organizer: Anthony Paik, *University of Massachusetts-Amherst*

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**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, *New York University*

Kangsan Lee, *New York University*

Benjamin Swartz Hartmann, *Indiana University*

**Moving Beyond Structure and Agency: How Opportunities are Realized in (a Community of) Practice**

Jessica Gold, *Northeastern University*

Allison Donine Deese, *Northeastern University*

Laura K. Nelson, *University of British Columbia*

Kathrin Zippel, *Freie Universität Berlin*

**Status hierarchy can organize cooperation in groups with multiple leaders**

Hsuan-Wei Lee, *Institute of Sociology, Academia Sinica*

Yen-Ping Chang, *National Tsing Hua University*

Yen-Sheng Chiang, *Academia Sinica, Taiwan*

**Structural and Cultural Pathways to Novelty Introduction in an Online Community**

Ana Macanovic, *Utrecht University*

Damiano Morando, *Imperial College Business School, London, United Kingdom*

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Fri, August 18

2:00 to 3:30pm

Mathematical and Computational Models and Methods in Social Psychology

Pennsylvania Convention Center, Floor: 100 Level, 105A

*Co-sponsored with the Social Psychology Section*

Organizer and Presider: Bryan Christopher Cannon, Alice Lloyd College

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**Affect Control Theory as a Predictive Measure of Moral Judgment**

Regan Smock, *University of Iowa*

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, *Autonomous University of Barcelona*

Nigel van Herwijnen, *Autonomous University of Barcelona*

Miranda Jessica Lubbers, *Autonomous University of Barcelona*

**Status Signaling, Rank Ambiguity, and Reciprocity in Informal Economic Exchange**

Fabien Accominotti, *University of Wisconsin-Madison*

**Structure and the Subjective: Network Metrics and the Experience of Self and Group**

Hana Shepherd, *Rutgers University*

Brent Hoagland, *Rutgers University*

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Fri, August 18

4:00 to 5:00pm

James S. Coleman Address

Pennsylvania Convention Center, Floor: 100 Level, 105A

Organizer & Presider: Dawn T Robinson, University of Georgia

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Address: **“Mathematics is the Social Scientist's Best Friend”**

Guillermina Jasso, *New York University*

2022 recipient of the James S. Coleman

Distinguished Career Award in Mathematical Sociology

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Fri, August 18

5:00 to 5:30pm

Mathematical Sociology Section Business Meeting & Award Ceremony

Pennsylvania Convention Center, Floor: 100 Level, 105A



Mon, August 21  
8:00 to 9:30am  
Modeling Culture

Pennsylvania Convention Center, Floor: 100 Level, 103C  
*co-sponsored with the Sociology of Culture Section*

Session Organizers: Juan Pablo Pardo-Guerra, University of California-San Diego  
Session Presiders: Ronald L. Breiger, University of Arizona  
Discussant: Neha Gondal, Boston University

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**How Culture is Coherent: The Reproduction of Gendered Naming Aesthetics in the United States 1880-2016**

Charles F. Seguin, *Pennsylvania State University*  
Brandon Gorman, *SUNY-Albany*  
Yongjun Zhang, *Stony Brook University*

**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, *University of Toronto*  
Salwa Khan, *University of Toronto*  
Yagana Samim, *University of Toronto*

**The Effect of Ideological Cluster Belief Network Structures on Public Opinion Change  
Person Summary**

William Holtkamp, *University of North Carolina-Chapel Hill*  
Scott W. Duxbury, *University of North Carolina-Chapel Hill*

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Mon, August 21

8:00 to 9:30am

Mathematical and Computational Analyses of Inequality and Mobility

Pennsylvania Convention Center, Floor: 100 Level, 105B  
*Co-sponsored with the Poverty, Inequality, and Mobility Section*

Organizer & Presider: Tim Futing Liao, University of Illinois

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**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, *University of California-Los Angeles*  
Tanvi Shinkre, *University of California, Los Angeles*  
Nanum Jeon

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

Haowen Zheng  
Siwei Cheng, *New York University*

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Mon, August 21

8:00 to 9:30am

Computational Sociology: Methods and Application

Marriott Philadelphia Downtown, Floor: Level 5, Grand Ballroom Salon D

*Co-sponsored with the Methodology Section*

Organizer & Presider: Mario D. Molina, New York University Abu Dhabi

Discussant: Minsu Park, New York University-Abu Dhabi

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**Beyond TechCrunch: Gender Variation in Startup Pitches in France and the U.S.**

Jen Schradie, *Sciences Po – Paris*

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, *Utrecht University*

Wojtek Przepiorka, *Utrecht University*

Vincent W. Buskens

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

Rebecca Ann Johnson, *Georgetown University*

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

Yuanmo He, *London School of Economics*

Milena Tsvetkova, *London School of Economics*

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