Statistics in Imaging Section Business Meeting

JSM 2023
Toronto, Ontario, Canada

Ying Guo
2023 SI Section Chair

Meeting Agenda

- 2023 SI Section Executive Committee/Section Officers

- 2023 SI Section Election Results

- Section Events in 2023 and Upcoming Section Events

- Section Activities

- Section Membership

- JSM SI Section Student Paper Competition Awards (Kristin Linn)

- Highlights from ASA Council of Sections Meeting (Joshua Lukemire)

- Open Discussions

2023 SI Section Officers

- **Chair**   Ying Guo

- **Past-Chair**   Ciprian Crainiceanu

- **Chair-Elect**   Marina Vannucci

- **Treasurer**   Kristin Linn

- **Secretary**   Joshua Lukemire

- **Program Chair**   Benjamin Risk

- **Program Chair-Elect**   Kristin Linn

- **Publications Officer**   Daniel Spencer, Panpan Zhang

- **Council of Sections Representative** Elizabeth Sweeney, Yize Zhao

- **Staff Liaison**   Rick Peterson

2023 SI Section Elected Officers

- **Chair-Elect 2024**
  Michele Guindani
  University of California, Los Angeles

- **Program Chair-Elect 2024**
  Dehan Kong
  University of Toronto

- **Council of Sections Representative 2024-2026**
  Yize Zhao
  Yale University

Statistical Methods in Imaging Conference (SMI) 2023

Local Host
University of Minnesota, Minneapolis

Principal Organizer
Mark Fiecas

Attendance
116 Attendees: 64 Student/Postdoc, 52 Faculty

Highlights

- Keynote Lectures and Founder's Talk

- Educational Program: two Tutorials

- Scientific Program: 16 Invited Sessions and a Poster Session

- SMI Student Paper Competition

  Theory and Methods track:
  Winner : Jialu Ran, Emory University. Runner-up: Zhiling Gu, Iowa State University
  Case Studies and Application track:
  Winner: Yuchen Xu, Cornell University. Runner-up: Yizi Zhang, Columbia University

Statistical Methods in Imaging Conference 2023
The annual meeting of the ASA Statistics in Imaging Section

Monday, May 22- Wednesday, May 24
In-person
Graduate Hotel
z.umn.edu/statistical-imaging-23

Section Events

Workshops

- **Neuroimaging Statistics Workshop in the 2023 OHBM Conference**
  June 27, 2023 | Montréal, CA

  Organizers Jean-Baptiste Poline and Thomas Nichols
  Keith Worsley Lecture in honor of Professor Keith Worsley

- **Statistical Challenges for Complex Brain Signals and Images**
  April 30–May 5, 2023 | Oaxaca, Mexico

  Organizers Carolina Euan, Mark Fiecas, and Hernando Ombao
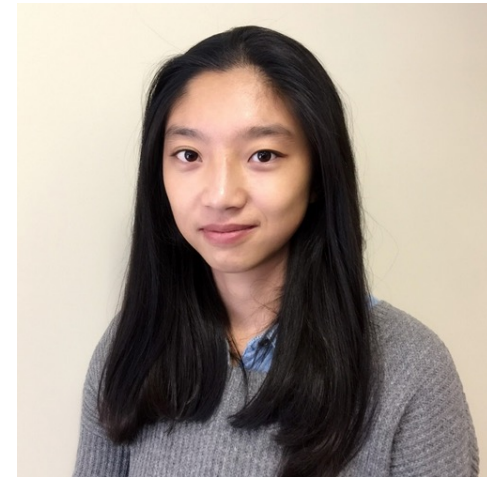
Statistical Methods in Imaging Conference (SMI) 2024

Local Host
Indiana University School of Medicine

Principal Organizer
Yi Zhao, Assistant Professor, Department of Biostatistics and Health Data Science

Section Activities

Statistics in Imaging Virtual Working Group

- The Statistics in Imaging Virtual Working Group hosts virtual monthly meeting featuring talks and opportunities for discussion.
- Established in 2022. Its goals: provide a forum for researchers to present both work in progress and completed work, to network between conferences, and to continue learning.
- The Virtual Working Group Leaders: Julia Fisher (2023-pres), Daniel Spencer (2022).
- Speakers so far:
   - September 2022: Julia Fisher
   - October 2022: Ivo Dinov,
   - November 2022. Hwin-Hsiung Huang
   - February 2023: Shella Keilholz
   - March 2023: Ali Bilgin
   - March 2023: Ivo Dinov
   - April 2023: Simon Vandekar

Please let Julia know if you are interested in giving a talk!

Julia Fisher
Univ. of Arizona

ASA Statistics in Imaging Section
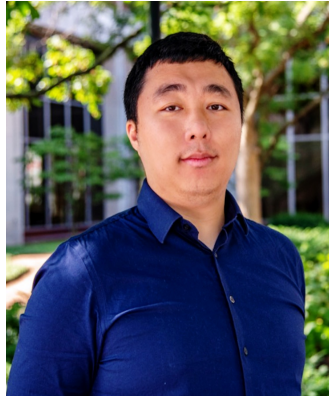
Statistics in Imaging Website Working Group

- Established in 2023. Its goal: to develop the new website for the SI Section www.statsinimaging.org. **It was officially launched on August 2nd , 2023!!**

- Members of the working group

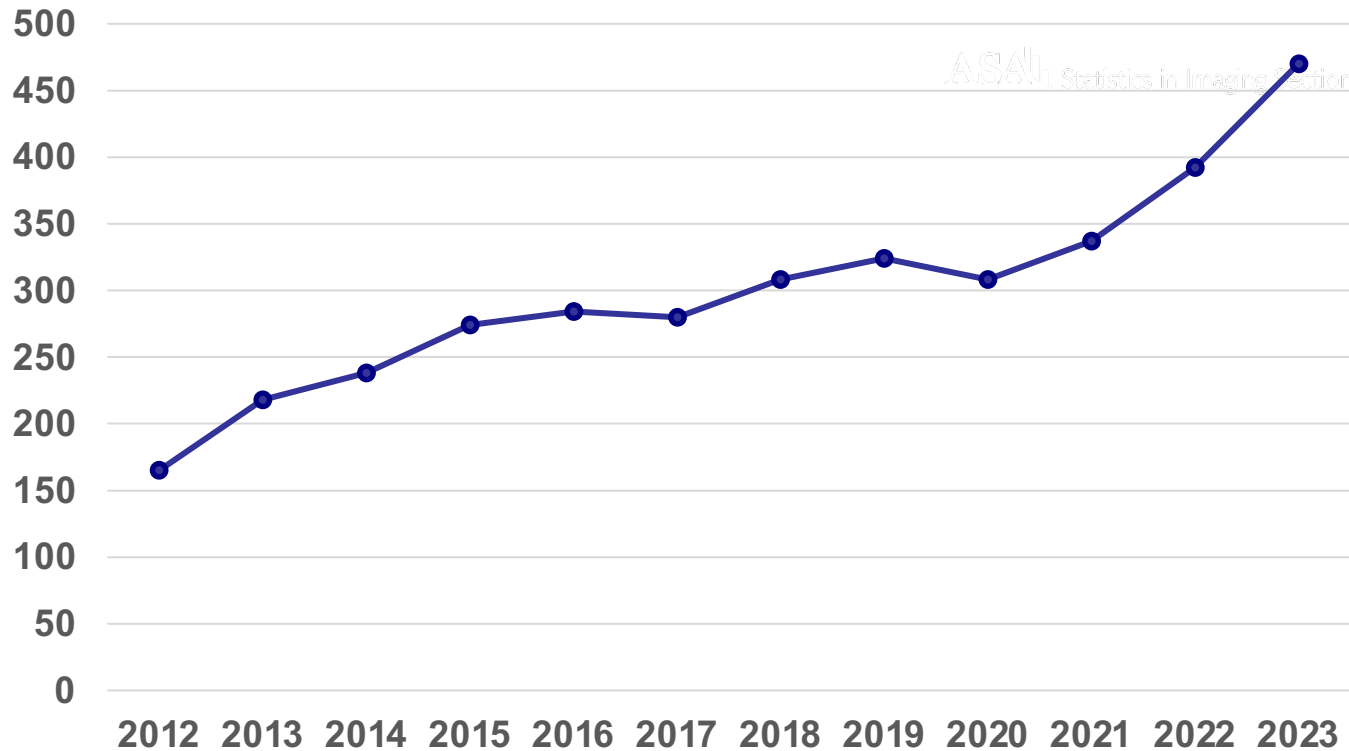| Joshua Lukemire Emory Univ. | Panpan Zhang Vanderbilt Univ. | Dayu Sun Indiana Univ. | Daniel Spencer Indiana Univ. | Ying Guo Emory Univ. |

- Please send News / Announcements / Job opportunities/ Resources to the working group. statsinimaging@gmail.com

SI Section Membership

Membership

Date	Members
08/2023	471
08/2022	392
12/2021	337
12/2020	308
12/2019	324
12/2018	308
12/2017	280
12/2016	284
12/2015	274
12/2014	238
12/2013	218
12/2012	165

JSM SI Section Student Paper Competition Winners

Name	Affiliation	Advisor	Status	Paper Title
Jingxuan Bao	University of Pennsylvania	Qi Long and Li Shen	**Winner**	Heritability-aware brain atlas improves the power of brain imaging-genetic studies
Mengyu Li	Renmin University of China	Cheng Meng	**Runner-Up**	Importance Sparsification for Sinkhorn Algorithm with Application in Efficient Echocardiogram Analysis
Guoxuan Ma	University of Michigan	Jian Kang	**Runner-Up**	Bayesian Image-on-Image Regression via Deep Kernel Learning based Gaussian Processes
Paolo Victor Redondo	King Abdullah University of Science and Technology	Raphael Huser and Hernando Ombao	**Runner-Up**	Measuring Information Transfer Between Nodes in a Brain Network through Spectral Transfer Entropy
Xi Tan	Rice University	Meng Li	**Runner-Up**	Bayesian structural determination by cryo-electron microscopy

Highlights from JSM 2023 ASA Council of Sections Meeting
(SI Representative: Joshua Lukemire)

- Total ASA section membership has increased by 11% from 2022. LIDS and SGG had a +52% increase, HPSS, **SI** and SLDM had +30% increases. The majority of sections had small increases or decrease.

- Invited session and topic contributed session allocation is being reviewed in 2024 for all sessions. This is done every even year.

- The Outstanding Section Service Award
  - The selections are made by the sections using their own process and criteria.
  - Final selection of the awardee should be made by the section Executive Committee.
  - Each section gets a chance at this every 3 years. SI is eligible to present this award in 2024.
    2021 Recipient of SI Outstanding Service Award: Timothy D. Johnson

Open Discussions