Transformation: A Rich History with a Bright Future.

2022 ISI Year Overview. Reunited.
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A message from the ISI President and ISI Director

In the first quarter of 2022, the world started to open up after the global pandemic. During 2022, we were happy to meet each other again in-person and connect with each other as we were used to.

2022 will be remembered as a year of renewal, reconnection, and transformation that sets the stage for a brighter future.
Although ISI held no face-to-face conferences in 2022, that was the year when more detailed plans were put in place for the first such World Statistics Congress to be held in Ottawa in July 2023. — Stephen Penneck, ISI President
A message from ISI President, Stephen Penneck

We chose the theme of 'Transformation' for this report because, in many ways, 2022 was a transitional year for ISI, as we began to make substantial progress in increasing our public voice, encouraging statistical communication and networking, developing statistical capacity, and securing our financial sustainability.

2022 was the first full year following the relaxation of COVID restrictions, when people were again able to travel, and face to face meetings resumed. Although ISI held no face-to-face conferences in 2022, that was the year when more detailed plans were put in place for the first such World Statistics Congress (WSC) to be held in Ottawa in July 2023.

A new website was procured - which will be used for all future conferences - registration opened in November, and the promotional video was launched. COVID has led to major changes in how development resources are distributed, and we continued to work with the World Bank and other funders, following the ending of the previous WB arrangements, to enable delegates from developing countries to travel to conferences.

The transformation is also evident in our new recently launched website, which uses more visuals and is easier to use. The aim is to attract more casual browsers, rather than focusing mainly on our membership. One of the most exciting aspects is the new ‘Communities’ facility which enables our Associations, Interest Groups and Committees, and indeed all our members to network and share information. It will form the basis for setting up more regional networks of members. Our public voice was also strengthened through the new series of Regional Webinars, tackling issues of interest to the regions and dealing with the ‘time zone’ problem.

The transformation began last year, will help us deliver our priorities into the future.

The groundwork was laid in 2022 for a transformation of our statistical capacity building activity. The Capacity Building Committee has reviewed our current activities and developed plans which will make significant contributions in statistical learning, literacy, knowledge sharing and coordination, and support for statistical communities and statistical independence.

This work will need external funding to have impact. During 2022, we had to face a difficult issue following the Russian invasion of Ukraine. We put out a statement suspending our activities in Russia for the time being.

We continued to be active in the field of professional ethics, remaining concerned about the continued prosecution of Andreas Georgiou and of the government of El Salvador, Fiji, and Turkey. And the final transition I want to mention is that we said goodbye to Ada, who had been with us as ISI Director for many years, and hello to Conchita, who joined us last July. We all wish them both well.
A message from ISI Director, Conchita Kleijweg

2022 was a Year of Transformation in several ways. Not only did Ada van Krimpen, the former ISI Director retire and did I start as the new ISI Director, and not only did we enter the ‘after Corona’ time frame, the ISI also discussed how we can strengthen the strategic priorities and grow our impact. Because the world is changing, as always.

Data science, AI and Machine Learning are entering our world. Hybrid and online working and collaboration is the new reality. Young people’s commitment towards ISI and ISI’s Associations membership needs an impulse and organizations are evaluating their funding policy.

Like Stephen mentioned, in the post-Corona turmoil the Permanent Office worked on the first in-person World Statistics Congress that is organized by the ISI itself instead of by the host country. This has the advantage that we can profit from the lessons learned of all the previous WSC’s.

We have set up a smooth working Congress Management System of which our Associations and Committees can profit when they organize their own conferences, we have a blue print of a project management plan with a timeline which can be re-used and we have a blueprint of a Communications Plan.

All for the purpose of Statistical Science for a Better World.

We have continued our good working relationship with the World Bank, the UN, Eurostat and many other national governments and NGO’s and we see in 2023 that the investment pays off.

We are able to connect our strategic priorities like Capacity Building with the goals of, for example, the World Bank. And this resulted in seed funding in the beginning of 2023 with the purpose of setting up a new strategy for Capacity Building. And this will lead to opening up other funds to support the activities of the ISI, the ISI Associations and its members.
One of the results of the membership survey in 2020 was the wish of members to communicate with each other in an easy way and be able to find and reach out to each other. We fulfilled this wish and worked on the creation of a Communities platform, which was launched in April 2023.

The Communities platform is for members only and can be accessed via the ISI website, members can manage their account themselves, start discussions or invite members to join specific discussions or meetings. The Communities platform is going to be used as the platform to share and store information with and for members.

Associations and Committees can use it for planning their meetings and sharing their documents with their members. Because this platform will build a history, it will be so much easier for new board and council members to find documents and understand former decision making.

In 2022 we also had our first in-person Executive Committee meetings again. In May in The Hague and in October in Budapest, where we were warmly welcomed by ISI Vice-President Gabriella Vukovich and her team. A report has been shared with the members about the topics that were discussed.

At the end of year we also prepared the UNSC meeting that took place in February 2023 in New York in-person again. That has resulted in a lot of high quality meetings with many follow up discussions, for example on the Regional Statistical Conference that we are jointly organizing with the IAOS and INEGI, the NSO in Mexico, from 15-17 May 2024.

All for the purpose of Statistical Science for a Better World.
Since its foundation in 1885, the ISI has upheld the same mission: to foster collaboration among statisticians and data scientists around the world to make statistics more meaningful and impactful.

— Conchita Kleijweg, ISI Director
The transformation began last year will help us deliver our priorities into the future.

Stephen Penneck
President, ISI

Finally we were able to meet in person again! In May and October 2022 we held an EC meeting in The Hague and Budapest to discuss and update on Finance, Marketing & Communications, World Statistics Congress, our Strategic Priorities and upcoming meetings like the UNSC meeting in February 2023 in New York. We always meet once a year in the Hague to meet the Permanent Office staff. In between we have monthly online meetings to share information, discuss and take decisions.

Gabriella Vukovich
Vice-President

Xuming He
President-Elect

Kerrie Mengersen
Vice-President

Xuming He
President-Elect

Oliver Chinganya
Vice-President
Since 1885, we have been committed to using Statistical Science to build a Better World.
For over 138 years, Statistical Science has been our focus in striving to build a better tomorrow.

Today, the International Statistical Institute (ISI) stands as one of the world’s most valuable and oldest institutes for modern statistics and data science.

The International Statistical Institute is an international professional association of statisticians and data scientists.

It was founded in 1885, although international statistical congresses have been held since 1853.

The Institute has more than 4,000 prominent members from statistical organizations and societies, governments, academia, national banks, and the private sector across the globe.

The First International Statistical Congress, chaired by astronomer, mathematician, statistician, and sociologist Adolphe Quetelet (see picture), is now known as the ISI World Statistics Congress and is a leading international congress on Statistics and Data Science.

ISI actively helps with statistical and data capacity building in developing regions, has United Nations Consultative Status, promotes ethical principles in statistics, supports Women in Statistics and Young Statisticians, publishes books and journals, holds a biennial international conference and year-round regional conferences.
The Origin of the International Statistical Institute

The International Statistical Institute (ISI) was formally founded in 1885, during a meeting held to celebrate the Jubilee of the London Statistical Society. The initial 81 members were the elite of that era’s statisticians in government and academia. They established our first statutes, and our first half-century was a period of general stability. Major changes, such as a proposed affiliation in 1920 with the League of Nations, were resisted.
In 2022, we achieved ...

Launched of our new Strategic Priorities 22–25

2.
Our four main Strategic Priorities remain unchanged, and we have taken on new activities this year and will continue to do so in the coming years. The challenges and opportunities have evolved, and we are excited to explore them further.

Increased Brand Awareness & Visibility

3.
We increased the visibility of ISI and all Associations brands, stories, projects, and events, such as the ISI Young Ambassadors for the International Biometric Society (IBS) Event and the International Biometric Conference 2022.

4. We engaged members and communities to participate ISI outreach activities.

5.
We were delighted to recognize Prof. Marcelo Bourguignon Pereira (Brazil) and Suryo Adi Rakhmawan (Indonesia) with the ISI Award.

Activities Undertaken

1. Activated and Created:

200+ News Stories from the Statistical Community
10+ International Online Courses
20+ International Webinars
4+ Ethical Statements
2+ Main blueprints to benefit consistent and sustainable communication, marketing, and branding of ISI, associations, and stakeholders.

Strengthened the Public Voice of Statistics

Kerrie Mengersen, Distinguished Professor of Statistics, is the driving force behind The Public Voice. Along with her team, including Katie Buchhorn, she has been instrumental in the success of projects such as:

6. The ‘Statisticians React to the News’ blog.
8. Wikipedia Pages for Outstanding Members.
9. The ISI Regional Webinar Series.
2022: In preparation for the 2023 IAOS-ISI Regional Statistics Conference in Zambia

In 2019, IAOS and ISI began defining goals and objectives, the budget, planning the program and speakers, and much more in partnership with the Zambia Statistical Agency. This conference was originally planned for 2020. Covid-19 delayed the conference to 2023, with much detailed planning taking place in 2022.
2022: In preparation for the World Statistics Congress 2023

In 2021, ISI started defining goals and objectives, establishing the budget, building the team, checking the venue, developing event branding, planning the program, confirming partners, exhibitors, and speakers, and much more. After the virtual WSC 2021, this WSC is the first organized by the ISI itself with the support of the host country Canada. This way of working creates a blueprint for the WSC’s and other congresses in the future.
FOUR STRATEGIC PRIORITIES

This is our focus.

1. Increase Capacity Building
   + Encourage Statistical Communication & Networking
   + Extend the Public Voice of Statistic
   + Advance Membership Development

We deeply believe that by building capacity, we can bridge differences.
Building capacity empowers people far beyond their own development.

The ISI has been working actively to bolster the capacity of developing countries through a variety of initiatives.

The 2013 White Paper on Statistical Capacity Building outlines our objectives as: providing statistical professionals in the public and private sectors with access to the latest methods for data collection, analysis, and interpretation; and contributing to the development of statistical infrastructure and human resources in official, survey, and business statistics, as well as in statistical education and research.

To this end, the ISI held several workshops to train senior staff in national statistical offices on improving the quality of statistical information.

Additionally, the ISI funded workshops and conferences on statistical practice in Africa and Asia, and partnered with the University of Oslo to create a virtual mentoring program for PhD students.

Furthermore, the ISI provided support for participants from developing countries to attend ISI and Association conferences.

These activities have been funded through World Bank Trust Funds for Statistical Capacity Building and the African Development Bank. This funding ended in 2020. In 2022, we have been actively working to secure funding and sponsorships to provide the necessary resources for our capacity building ambitions.
Being Connected. Being Relevant.

The ISI Capacity Building Committee is dedicated to empowering statisticians and data scientists to reach their full potential. Through capacity building activities, we strive to create a learning environment that encourages collaboration between all types of statisticians and data scientists, while also helping them to better connect with other professions and become more relevant to society.

We help to improve the proficiency of statisticians so they can effectively address the world's current issues and to accelerate the adoption of digitalization for sustainable growth.
In 2022, we achieved...

**Engaged Schools, Universities, Official Statisticians**
1. Enhanced the relevance of teaching statistics and data science in schools, universities, and for official statisticians.
2. Supported the development of statisticians and data scientists as trusted data stewards and partners for data stakeholders in the digital world.
3. Supported society’s capability to protect the independence and scientific integrity of statistics and data science.
4. Promoted a culture of evidence-based decision making among decision-makers across society.

**Enhanced Committee’s Activities**
5. We formed Task Teams of Committee Members and involve wider volunteers in piloting the ISI mentorship activities, strengthening regional activities in the MENA, Sub-Saharan Africa, and Asia-Pacific regions, to make the World Statistics Congress more relevant regionally, develop the ISI-relevant solutions for human resource challenges in Latin America, and support the development of statistical societies at regional and national levels.

**Focussed on Evidence Based Decisions**
6. Strengthened Committee membership.
7. Strengthened a better representation of regional and developing countries and regions.
8. Arranged and developed a funding strategy and business case for funding relevant work streams led by the ISI, which add value to and complement the existing global capacity building landscape. Initially for the new World Bank Global Data Facility, and then for adaption to other potential sponsors.

**Increased Online Activities**
9. More relevant Online Courses
10. Reorientation of the ISI Regional Webinar Series
11. Developed and executed three ISI Regional Webinars, for the regions Asia & Australia, Europe and Africa.
FOUR STRATEGIC PRIORITIES

This is our focus.

1. Encourage Statistical Communication & Networking
2. Extend the Public Voice of Statistics
3. Advance Membership Development
4. Increase Capacity Building

Encourage Statistical Communication and Networking to make an impact.
Providing facilities for networking and encouraging communications between members and with other statistical communities is key to attracting more members and engaging them with the work of the ISI.

This will enable the ISI to be more effective, and especially help us towards our objectives of leading, supporting and promoting the statistical community; disseminating research and best practice; growing the statistical community in developing countries; advancing the development of younger statisticians and encouraging the continuing participation of older members.

We create powerful new connections between our values, our actions, our people and our stakeholders and nurture existing connections.
In 2022, we achieved...

Engagement and Networking Activities
1. Launched a series of online webinars, with the support of our Associations.
2. Created a webinar library, that is now available on the ISI website.
3. Delivered support on various workshops and events for our Associations.

Increased Brand Visibility
4. Increased the visibility of the ISI and the Associations and their projects. The members and committees can participate in activities such as:
   + Newsletters
   + Social Media Channels
   + Blogs and Articles
   + Media Releases
   + Preparation for a community platform
   + Preparation for the New Website

Prepared ISI Communities
5. Preparation for a community platform, named: ISI Communities.

   The ISI Communities Platform is a members-only platform built to enable members to connect with other ISI members and associations, the entire ISI Family and Network, ISI Events, and more.

   With open and closed groups, ISI Members can share knowledge and collaborate with colleagues.

Increased News Activities
6. Supported several statisticians to raise awareness for their cause by news releases and articles.
7. Published monthly blogs of the ISI President.
8. Published several news and media releases to announce some important moments of ISI, such as the new ISI Director and the WSC 2023.
Prepared a New Future Proof ISI Website
9.
Preparation for a website that is sustainable and cost effective, and more impactful, enhancing your connection with the statistical community.

Aim to share our story, heritage, mission, achievements, activities, and purpose.

With a focus on the future, with the aim of serving not only ISI members and associations, but also any partner, organisation, or stakeholder who is currently or will be connected with the ISI and its wider statistical community in the next decade.

Increased Newsletters and Social Media Activities
10.
Created a new newsletter plan, to improve the newsletters, relevant to the purposes and audiences.

11.
Broadened the owned Social Media reach and channels with more intensive use of LinkedIn, Facebook, Twitter.

Prepared for New Ways of Working by Blueprints
12.
Created blueprints for events such as World Statistics Congress to have an consistent and continuing plan

13.
Created new ways of working on communication to our members and anyone in the statistical communities.

Developed a New WSC 2023 Website and Branding
14.
A new future proof website, platform and branding is build for the World Statistics Congress, and aligned with any new events that can we added.
FOUR STRATEGIC PRIORITIES

This is our focus.

••

3

+ Increase Capacity Building
+ Encourage Statistical Communication & Networking
› Extend the Public Voice of Statistics
+ Advance Membership Development

Our Public Voice on Statistics has Power.
Our Voice explains the world of Statistics and Data Science.

ISI has a unique position as the worldwide body of statisticians from all disciplines - academic, government, research and business - not linked to any government or interest group. It is part of our mission to speak up for the profession on topical statistical issues.

Our goal is for members to recognize that the ISI has contributed to raising the public voice of statistics, as measured by our regular membership survey.

The public voice of statistics is critical for societal advancement and improvement. The ISI seeks to present unbiased perspectives of statisticians from around the world. It promotes debates, statistical perspectives, and discussions on current issues.
In 2022, we achieved...

**Participate with our Voices**

**VOICE IN PUBLIC**
2. The ISI have provided weekly blog posts of reactions to current news items from a set of statisticians worldwide.

**VOICE IN THE SCIENTIFIC COMMUNITY**
3. To give the statistical community a stronger voice in this context, the ISI is an affiliate member of the International Science Council (ISC).

**VOICE IN EDUCATION**
4. The International Statistical Literacy Project (ISLP) is a project initiated by the International Association for Statistical Education (IASE), which is an association of the International Statistical Institute (ISI).

**Supported The International Data Science in Schools Project (IDSSP)**
5. Supported by the ISI and other (inter)national statistics and data science organisations. This international collaborative project aims to transform the way Data Science is taught in the last two years of school. It seeks to equip students with the knowledge and appreciation of how data can be acquired and used to make decisions, as well as to instil in more scientifically able students an interest and enthusiasm for Data Science. The project involves computer scientists, statisticians, school teachers, curriculum experts and educators from Australia, Canada, England, Germany, New Zealand and the United States.

**Promoting News Activities**

**PROMOTING BEST PRACTICES**
6. The ISI Public Voice Committee works with the ISI Publications Committee to ensure that all journals of the Institute and its Associations meet the highest standards of data availability and reproducible research.

**DEVELOPMENT OF WEBPAGES**
7. To address different voices in the debate: Use and Misuse of Statistics in Different Scientific Areas.

**Created Wikipedia Pages**

**Outstanding Members**
1. We have established Wikipedia pages of high-profile ISI members and updated the ISI Wikipedia page.

Wikipedia is by far the world’s largest encyclopedia; it is the largest, most comprehensive, and most accessible compilation of knowledge to exist.
It is part of our mission to speak up for the profession on topical statistical issues.

On this picture in orange, we see Kerrie Mengersen, Distinguished Professor of Statistics. She is one of the driving forces behind The Public Voice.
FOUR STRATEGIC PRIORITIES

This is our focus.

4

+ Increase Capacity Building
+ Encourage Statistical Communication & Networking
+ Extend the Public Voice of Statistic
  › Advance Membership Development

Membership Development:
Together, we can do so much more.
A new membership development plan toward 2025.

In 2022, the ISI started rethinking a new membership development plan. The membership development plan will provide a roadmap for the ISI future objectives and strategies for retention and recruitment. This plan will be a valuable tool as we strive to reach our membership goals and will enable us to monitor progress.

The ISI proposed a strategy to increase recognition among the statistical community by offering services through local engagement and global collaboration. The goal is to attract new members and maintain existing members. The plan will contain a programme that will focus on, among other things: Providing targeted, valuable content; Simplifying the path to membership; Offering an incentive to join; Stepping up social media interaction; Finding co-marketing opportunities; Optimizing the website for new member conversions; and Advancing existing networks.

We are more than just a non-profit organisation. We are a statistical and data science community, a family. We are a place where you can find support and make a meaningful difference.
What members say

**Vijay Nair**
Head, Statistical Learning and Advanced Computing, Wells Fargo

*ISI was my gateway to the international statistics community. I met many wonderful people and made lifelong friendships at the World Statistics Congresses.*

**Lao Kenao**
Coordinator of SAKSS, Ministry of Agriculture of Togo

*Being a member of ISI and its ISBIS association since 2014 has allowed me to strengthen my skills in agricultural statistics and develop a dynamic professional network.*

**Ada van Krimpen**
Former ISI Director, ISI

*Joining the ISI has broadened my horizon. I have met many inspiring people and visited amazing places. Serving the ISI community has enriched my professional life.*

**Demisew Gebru Degefu**
Lecturer, Hawassa University

*Being a member of the ISI helps me to interact with statistical community all over the world and to improve statistical literacy in my country Ethiopia.*
Standing Committees

These committees are components of the ISI’s organizational structure, along with the Executive Committee and the Council.

According to the ISI Statutes, article 10, the current Standing Committees are:

• ISI Membership Elections Committee
• ISI Nominations Committee

New Standing Committees are installed by the at the proposal of the Executive Committee after consultation with the Council.
Standing Committees

Membership Elections Committee
This Committee is charged with the duty of examining all nominations for elected ISI membership duly prepared in accordance with the provisions of article 1.3 of the ISI By-Laws.

It is appointed before the end of March every second year by the Executive Committee and shall be composed of at least seven elected members, two of whom shall be elected Council members.

Nominations Committee
The objective of this Committee is to select a slate of candidates for the ISI Executive Committee (EC) and elected members of the ISI Council in accordance with article 4.1 of ISI By-Laws.

The EC appoints the chair and the members of the Nominations Committee. This Committee reports to the ISI President.

Ola Awad, Chair Membership Elections Committee
Digital transformation will allow the ISI to seamlessly connect people, processes and technology to increase awareness and innovate to reach a wider audience and achieve a higher level of trust and transparency.
Operational Committees

Finance Committee

The Committee concerns itself with matters relating to the ISI’s finances. It examines the ISI’s investment portfolio on a regular basis and advises the ISI Executive Committee on investment policies and provides advice on the size of the ISI reserves.

The Finance Committee submitted a report on the ISI’s finances and investments to be attached at the ISI Annual Report 2022 for members’ information and discussion during the General Assembly.
Special Interest Groups

Special Interest Groups (SIGs) focus on matters of statistical interest that may reach across areas of statistics and/or link statistics with other disciplines.

Some of these groups are of relevance across all of the ISI and its Associations. Other SIGs link particular interests across the ISI and its Associations, or link with other disciplines and/or professional interests and/or bodies and/or current developments.
In year 2022, the Young Statisticians Committees focused on collaboration and expanding connection with other young statisticians communities, including the Young Statisticians of Statistics Netherlands, communicating with the Young Statisticians of Royal Statistical Society and general assemblies.

Chair: Mara Sherlin D. Talento
In year 2022, the Young Statisticians Committee focused on collaboration and expanding connection with other young statisticians communities, including the Young Statisticians of Statistics Netherlands, communicating with the Young Statisticians of Royal Statistical Society and general assemblies.

The Young Statisticians Committee and Young Statisticians of Statistics Netherlands are working together on organizing a two-day Young Statisticians workshop on use of Python and R for Causal Inference in June 2023.

The aim of this event is to provide additional skills to Young Statisticians that they may use for future research projects and paper presentations to conferences. It also aims to encourage the participants to submit their output to the upcoming World Statistics Congress 2023 as a contributed paper session. Part of the goal is also to provide a venue for social and professional networking which will be conducted online.

Theme: Social and Professional Networking event as well as Professional Development.
'It is when we listen to past achievements, current innovations and a variety of experiences that we unlock doors of various possibilities and opportunities; it is when the future becomes a choice more than a destiny.'

Mara Sherlin D. Talento, Young Statisticians Committee Chair
Today, through statistics, we can transform large amounts of data into valuable insights that have the potential to change our lives in ways we can’t even imagine and shape a bright and innovative future. By teaching and disseminating statistics as part of a well-rounded education, we can help our young people cultivate important critical thinking and problem-solving skills that will prepare them for success in any field.
SIG on Sports Statistics

The special interest group on sport statistics wants to promote the understanding, development and good practice of sports statistics worldwide, with particular focus on methodological problems involved and the in-field application of methods and models, from three different perspectives: scientific research, statistical capacity building and education at different levels.

Chair: Monica Manisera

Find out more
In 2022, The SIG on Sports Statistics achieved...

Conferences

1. 6th AUEB Sports Analytics Workshop (AUEB SAW2022)
   The workshop was hosted in a hybrid form (virtual and live) AUEB, Athens (Greece) on 26 - 27 May 2022. The workshop was also accompanied by a short course on Basketball Data Science (23-24 May 2022). The short course was held in hybrid form with a limited number of places available at the facilities of AUEB.

   Specialized session “Statistical methods and models for Sports Analytics”. Speakers: A. Groll, L. Grassetti, M. Cefis

2. SIS2022 - 51st Scientific Meeting of the Italian Statistical Society
   The Scientific Meeting was held in (University of Campania “Luigi Vanvitelli) on 22-24 June 2022.

   Specialized session “Statistical methods and models for Sports Analytics”.
   Speakers: A. Groll, L. Grassetti, M. Cefis

3. Sports - Training and Research in Data Science Methods for ANalytics and INjury Prevention Group
   Series of high-quality sport-focused webinars with monthly occurrence.
   Organized by C. Ley and A. Groll.

Short Courses

4. Short Course “Team Sport Analysis” (M. Manisera, P. Zuccolotto) at the École Thématique BigSportsData: Analyse de données sportives massives, University of Caen Normandie, on 29 June 2022.

5. Short Course “Statistical Modelling of Football Data” (L. Egidi, I. Ntzoufras) at the University of Trieste, on July 2022, satellite event of the International Workshop on Statistical Modelling (IWSM) 2022.

Other Activities


Committee on Agricultural Statistics

“To transform food systems, we must transform the way we produce food and agricultural statistics. In line with this idea, in 2023 as part of the workplan of the ISI-CAS, we will organize the ninth International Conference on Agricultural Statistics (ICAS IX) whose theme will be: Harnessing Data to Inform an Equitable and Sustainable Agri-food Systems Transformation.”

Chair: Jose Rosero Moncayo
Activities

+ Annual meeting of members held as a side meeting of the 53rd United Nations Statistical Commission (March 2022)

+ Planned the ninth International Conference of Agricultural Statistics (ICAS IX)

+ ISI-CAS members decided on ICAS IX theme, structure, timeline, and committees (March-July 2022)

+ ICAS IX call for papers and invited sessions were launched (Sept-Oct 2022)

Agricultural Statistics Special Interest Group's objective is to promote the development of an interest in agricultural statistics on an international basis.
To transform food systems, we must transform the way we produce food and agricultural statistics. In line with this idea, in 2023 as part of the workplan of the ISI-CAS, we will organize the ninth International Conference on Agricultural Statistics (ICAS IX) whose theme will be: Harnessing Data to Inform an Equitable and Sustainable Agri-food Systems Transformation.
Committee on Women in Statistics

To empower and support women in statistical roles across the world.

Chair: Ksenija Dumicic

Find out more
Following its vision to empower and support women in statistical roles across the world, spanning professions within academia, government, private sector, civil society, and international organizations, in 2022 the ISI Committee on Women in Statistics (CW-ISI) established the CW-ISI Online Webinar Series, to be promoted by social media. Digital technologies and social networks enable a variety of opportunities to promote women statisticians, increase the number of Committee on Women in Statistics Country Representatives, and women’s membership in the ISI, and, as well. Knowing eminent or other women statisticians from statistical journals or meetings, like ISI World Statistics Congresses, ISI Associations’ meetings, or others, might be only strengthened by a series of virtual meetings during the year, and we in the Committee on Women in Statistics is proud to offer such networking opportunities to experienced and young women statisticians around the globe.
In 2022, The Committee on Women in Statistics achieved...

Undertaken Activities
(Picture: Chair: Ksenija Dumičić)

1. The Committee on Women in Statistics recruited new Management Committee members and as several new country representatives from Albania and Serbia.

2. The Committee on Women Chair had discussed ideas in a meeting with the ISI Capacity Building Committee Chair. They have collaborated to come up with potential plans. This is line with the mentoring which was proposed for the Committee on Women in Statistics, as listed in the Strategic Priorities 2022 - 2025.

3. The Committee conducted a general update on its webpage; Management Committee members have provided photographs and short bios. In addition, the committee also came up with their own logo.

4. In May 2022, the Management Committee members held their first Online Meeting to discuss activities and plans for 2022-2023.

5. The Committee initiated the organization of Committee on Women in Statistics Webinar Series.

Astrostatistics Special Interest Group

The main goal of the Astrostatistics SIG in the ISI, is to foster collaboration between members of the statistical and astronomical communities. It also seeks to support existing astrostatistical organisations and endeavors, and will serve as a locus for the dissemination of information regarding astrostatistical education programs, collaborations, conferences and websites.

Chair: Jogesh Babu

Find out more
History

An Astrostatistics interest group was first formed by Joseph Hilbe in 2008. At the winter ISI Executive Committee board meeting in December of 2009, it became an ISI standing committee, and shortly thereafter was renamed the **ISI Astrostatistics Network**.

In 2012 the Network voted to become an independent global scientific association for astrostatistics and astroinformatics called the **International Astrostatistics Association (IAA)**. Under Joseph Hilbe’s leadership, membership of IAA grew to 600, representing 45 countries on 6 continents.

At the 61st ISI World Statistics Congress, in July 2017 in Marrakech (Morocco), the ISI President-Elect and the Interim President of IAA discussed the future of astrostatistics within the ISI. Emergence of a new organisational structure of Special Interest Groups (SIGs) within the ISI, specifically to link statistics with other disciplines, would be helpful. The Astrostatistics SIG within ISI was thus reactivated.

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Statistics helps unveil the mysteries of planets, stars, galaxies and the Universe. — **Jogesh Babu, Chair**
ISI Outreach Committees

Outreach Committees creating dynamic settings by energizing & launching projects, building relationships, and representing the ISI and its Associations in various areas.
ISI Outreach Committees

Outreach Committees develop activities, networks and promote and represent the ISI and its Associations in different regions.

An Outreach Committee is established by the Council in accordance with ISI Statutes & By-Laws. Chairs of Outreach Committees must be ISI members, and members of Outreach Committees must be members of the ISI and/or its Associations. The chair as well as the committee members are appointed by the ISI Executive Committee. The members of the Committee are appointed in consultation with the chair.

Each Outreach Committee establishes, maintains and promotes an associated ISI Regional Network in their region.

Current Committees:

- Central Eurasia Outreach Committee
- East Asian Outreach Committee
- South East Asia Outreach Committee
East Asian Outreach Committee

The International Statistical Institute Southeast Asia (ISI SEA) is one of outreach committee's ISI.

The countries in the Network are Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam. This region represents about 9% of the world's population. These countries are not only in different stages of economic development, they are also in different stages of development in the field of statistics.

Through the outreach committee, the different countries can come together to support the growth of statistical activities in the region.

Some statistical networks from Indonesia (FORSTAT), Malaysia (ISM), Singapore (SIS), Philippine (PSAI) participated too. The statistical community of the East Asian region remained active in 2022 during the COVID-19 pandemic. We expect to see more face-to-face exchange opportunities and conferences in 2023.
In 2022, the East Asian Outreach Committee achieved...

Activities Undertaken


2. Waseda International Symposium, March 7-9, 2022, Japan.

3. ISI-EAOC seminar on Data Analytics and Risk Management - Auto-Tuning of Hyperparameters for Numerical Algorithms and Other Applications (by Professor Ray-Bing Chen), April 20, 2022, Hong Kong.

   The seminar was jointly organized by The ISI East Asian Outreach Committee, and The Asian Regional Section (ARS) of the International Association for Statistical Computing (IASC).

4. The 5th International Conference on Econometrics and Statistics (EcoSta 2022), June 4-6, 2022, Kyoto, Japan.

5. ISI-EAOC seminar on Data Analytics and Risk Management - High-Frequency Realized Stochastic Volatility Model (by Professor Tashiaki Watanabe), June 15, 2022, Hong Kong.


7. The 6th EAC-ISBA conference, July 8-9, 2022, Taiwan.

8. The 31st South Taiwan Statistics Conference, July 28-29, 2022, Taiwan.

Advancing Data Science in Accelerating Achievement of Sustainable Development Goals.
South East Asia Outreach Committee

The South East Asia Committee provide those involved in statistical activities in the South East Asia region:

• A platform to share information and promote Statistics within South East Asia;
• A forum to communicate with the global statistical community;
• An opportunity to become engaged in the activities of the ISI.

The Committee works closely with national statistical organisations to develop regional activities in areas such as developing statistical education, sharing of best statistical practices, and stimulating regional collaborations in research and new developments. Related activities can include organising capacity-building workshops, mentoring, webinars, short courses, etc. The ISI has considerable experience and interest in these activities.

Chair South East Asian Outreach: Hizir Sofyan
In 2022, the South East Asian Outreach Committee achieved...

About ICMSA

The 18th IMT-GT International Conference on Mathematics, Statistics and Their Applications (ICMSA 2023) is initiated by IMT-GT (Indonesia-Malaysia-Thailand Growth Triangle) consortium to promote mathematics and statistics in the region.

Important Meetings


Activities Undertaken

1. We conducted a regular meeting with ISI – SEA members on 8 September 2022 to discuss future activities related to ISI – SEA.

2. In collaboration with Universitas Syiah Kuala, the committee organized the 18th IMT-GT International Conference on Mathematics, Statistics and their Applications (ICMSA 2022). The conference was held on 17 - 19 October 2022.

Purpose ICMSA

The purpose of the conference is to bring together mathematicians, statisticians, academics and students from the region of Indonesia, Malaysia, and Thailand, as well as any other regions around the world, to share knowledge, expertise, and the recent development of mathematics and statistics in the form of plenary presentations and related social events.
Advisory Board on Ethics

The ISI Advisory Board on Ethics advises the Executive Committee and Council on relevant ethical issues. It recommends and undertakes activities for promoting observance of ethical principles in statistics.

The work of the Board is based on the ISI Declaration on Professional Ethics and guided by ISI’s mission and its relevant objectives.

The ISI Advisory Board on Ethics was established in 2010.

Chair: Walter J. Radermacher
Honesty. Integrity. Values. Ensuring ethical and just operations.

“Citizens, entrepreneurs, researchers and politicians need good statistical information to make the right decisions in good as well as in bad times, especially in crises and major transformations. The history of statistics has taught us how closely 'statistics' is linked to the development of the 'state'.

Learning from this history means understanding the power of numbers and ensuring that they are not only of good quality in terms of method and production, but also trustworthy.

If they are of value in solving the problems at hand, they meet our goal of being 'fit for purpose'. Power requires responsible action, knowledge of opportunities and risks. The professional values and ethical principles that shall guide statisticians to properly handle their responsibilities are summarised in the ISI Declaration.”

Walter J. Radermacher - Advisory Board on Ethics, Board member (Picture)
In 2022, we achieved...

Aims of Boards Activities

1. Promote excellence in the practice of statistics.

2. Supporting the international statistical community in promoting the establishment and maintenance of sound statistical institutions.

3. In 2022, the composition of the Board was renewed and the position of Chairman was transferred to Walter J. Radermacher.

4. The new team has been investigating some pressing problems since the beginning of 2022 and has been working towards their resolution, e.g. through public statements.

The board is now building on a professionally wide-ranging and forthcoming composition of personnel.

ISI Declaration on Professional Ethics

+ Read ISI Declaration on Professional Ethics Here

+ Read more about the Advisory Board on Ethics
We can’t simply do our science and not worry about the ethical issues. — Bill Joy
Economic and Social Council of the United Nations
Special Consultative Status with the United Nations since 1948

The ISI is a non-profit, non-governmental organisation with consultative status in the Economic and Social Council of the United Nations since 1948.

What does special consultative status with the UN mean?

Special consultative status is granted to NGOs that have a special competence in, and are concerned specifically with, only a few of the fields of activity covered by the ECOSOC.

As a result of this status, the ISI participates in a wide range of United Nations-sponsored events, meetings, and activities, thereby contributing to the development goals of the Economic and Social Council (ECOSOC) and the United Nations (UN).

ISI’s Special Consultative Status with the United Nations recognizes and encourages ISI's significant contributions to the improvement of world statistics.
ISI’s Special Consultative Status with the United Nations recognizes and encourages ISI’s significant contributions to the improvement of world statistics.

ISI’s President Stephen Penneck writes in his March 2023 blog, that having Consultative Status with the United Nations means that we take an active role in United Nations discussions on statistics, we are often asked to join working parties, and we attend the annual meeting of the United Nations Statistical Commission.

He further adds that, “this role follows naturally from the historic activities the ISI has performed in the past. Prior to the establishment of the UN, it was the ISI that compiled the first publications presenting statistics from countries all over the world. Also it was the ISI Statistical Meetings (now the World Statistics Congress) which led to agreements on the statistical standards and classifications that countries now follow.

Today, ISI’s symbiotic relationship with the United Nations, which comes with Special Consultative Status with the UN, furthers its pursuit of Statistical Science for a Better World.
As a result of this status, ISI participates in a wide range of United Nations-sponsored events, meetings, and activities, thereby contributing to the development goals of the Economic and Social Council (ECOSOC) and the United Nations (UN).
In 2022, ISI Side Event at the Occasion of the 53rd United Nations Statistical Commission...

Highlight Discussion Points
When: 14 Feb 2022
Moderator: Ada van Krimpen, ISI Director
Panelists:
Stephen Penneck – ISI President – Former DG ONS UK
Gabriella Vukovich – ISI Vice-President – President HSCO Hungary
Anil Arora – DG Statistics Canada
Prof. Ben Kiregyera – International Consultant – Uganda

Relevance
The subject was relevant across the agenda of the 53rd UNSC session, especially the discussions on sustainable development indicators, data stewardship, climate change statistics, Big Data and population censuses.

Statistical Leadership – the Role of National Statistical Institutes
The International Statistical Institute (ISI) organises the virtual side event ‘Statistical Leadership – the Role of National Statistical Institutes’ at the 53rd UN Statistical Commission.

The ISI brought together a group of panellists who will approach the topic from different perspectives.

Highlight Discussion Points
The role of National Statistical Institutes in demonstrating leadership nationally – within government and among the general public, and internationally – with international agencies.

Role of National Statistical Institutes in working with national statistical societies and in developing the leadership skills of statisticians.

Importance of national governance frameworks to support the leadership role of NSIs.
SEVEN ISI ASSOCIATIONS

Since 1975

BS: Bernoulli Society for Mathematical Statistics and Probability

Bernoulli Society
Dedicated to increasing natural knowledge and the welfare of mankind.

The Bernoulli Society is a professional association which aims to further the progress of probability and mathematical statistics, founded as part of the International Statistical Institute in 1975.

Objectives
The objectives of the Bernoulli Society are the advancement of the sciences of probability (including stochastic processes) and mathematical statistics and of their applications to all those aspects of human endeavour, which are directed towards the increase of natural knowledge and the welfare of mankind.

Governance
The Bernoulli Society is led by an Executive Committee and a Council. In addition there are several standing committees for specific administrative functions, the development and advancement of specific subject areas in mathematical statistics, probability theory and stochastic processes and their applications, and the support of activities that promote the cooperation within geographical regions.
Executive Committee

President: Adam Jakubowski (Poland) (See picture)
President-Elect: Victor Panaretos (Switzerland)
Past President Claudia Klüppelberg (Germany)
Executive Secretary (Ex-officio): Conchita Kleijweg (Netherlands)
Membership Secretary: Sebastian Engelke (Switzerland)
Scientific Secretary: Song-Xi Chen (China)
Treasurer: Johan Segers (Belgium)
Publications Secretary: Mark Podolskij (Luxemburg)
Publicity Secretary: Leonardo Rolla (UK)
Ex officio: Conchita Kleijweg (Netherlands)

The Bernoulli Society is named after the Bernoulli family of mathematicians and scientists whose researchers covered 'most areas of scientific knowledge'.
In 2022, BS achieved...

**Co-sponsored Bernoulli Society Meetings**


6. International Symposium on Nonparametric Statistics, June 20 – 24, 2022, Paphos, Cyprus

7. São Paulo Advanced Science on Singular Stochastic Partial Differential Equations and their Applications, August 2-13, 2022, Campinas, Brazil

8. One World Probability Seminar

9. One World Extremes Seminar

10. Asia-Pacific Seminars in Probability and Statistics

**Awards and Prizes**

11. The Bernoulli Prize for an Outstanding Survey Article in Statistics: Ulrike von Luxburg

12. BS New Researcher Award: Edgar Dobriban, Qiyang Han and Lucas Janson

13. Wolfgang Doeblin Prize: Yinon Spinka
Publications in 2022

Co-Sponsored Publications
Bernoulli Society
- Electronic Journal of Probability, Diamond Open Access (DOA)
- Electronic Communications in Probability, DOA
- Probability Surveys, DOA Statistics Surveys, DOA
- Electronic Journal of Statistics, DOA
- Latin American Journal of Probability and Mathematical Statistics
- SemStat Elements

Publications Creating Royalties
- SpringerBriefs in Probability and Mathematical Statistics
- Semstat books

More Activities
14. Setting-up the Secretariat of the Bernoulli Society in Toruń, Poland, with support of the Nicolaus Copernicus University.
15. Reconstruction of old issues of Bernoulli News in pdf format.
We reward excellence.

Awards and Prizes.

+ The Bernoulli Prize for an Outstanding Survey Article in Statistics: Ulrike von Luxburg

+ BS New Researcher Award: Edgar Dobriban, Qiyang Han and Lucas Janson

+ Wolfgang Doeblin Prize: Ynon Spinka
Since 1985

IAOS: International Association for Official Statistics
Committed to improve official statistics as an evidence policy making.

The general aim of the International Association for Official Statistics (IAOS) is to promote the understanding and advancement of official statistics and related subjects, and to foster the development of effective and efficient official statistical services through international contacts among individuals and organizations, including users of official statistics as well as research institutes.

IAOS through its various initiatives is working with stakeholders to promote the understanding and advancement of official statistics, as we all transition to the new landscape, where the official statistics operates. IAOS brings together producers and users of official statistics. 2022 brought the IAOS community together in Krakow for our first face-to-face conference since the pandemic, under the theme of “Worthy Information for Challenging Times”. While the IAOS is nearly 50 years old, it continues to transform. The Krakow conference saw the launch of the Krakow Group, which will deal with the Use and Misuse of Statistics. Activities such as the Young Statisticians Prize and Statistical Journal of the IAOS (SJIAOS), both strongly supported across developing and developed countries, continue to showcase new and emerging issues relevant to our community.

Objectives
The objectives of the IAOS are to promote the understanding and advancement of official statistics and related subjects and to foster the development of effective and efficient official statistical services, particularly in developing countries.

Governance
IAOS is an Association constitutive of professionals who have scientific or professional interest in the field of official statistics. It is run by an Executive Committee elected for a period of two years.
Executive Committee

President: Misha Belkindas (USA) (See picture)
President-Elect: Dominik Rozkrut (Poland)
Special Advisor to the President: Nancy McBeth (Oceania)

Members
Gemma Van Halderen (Oceania)
Jan Robert Suesser (Europe)
Lisa Grace S. Bersales (Asia)
Peter Popoola (Africa)
Qasem Alzoubi (Arab & the Middle East Countries)
Gary Dunnet (Oceania)
Steve MacFeely (Europe)
Conchita Kleijweg (ISI Director, Europe) (Ex officio)

"While the IAOS is nearly 50 years old, it continues to transform." — Misha Belkindas, President, IAOS
In 2022, IAOS achieved...

Planned and Organized 17th IAOS-ISI Conference

1. The 17th International Association for Official Statistics Conference and 3rd International Statistical Institute Regional Statistics Conference, in Livingstone, Zambia held in April 2023, was jointly organised by the IAOS, the ISI and the Zambia Statistics Agency – ZamStats in 2022-2023.

The theme of the conference was, “Better Lives 2030: Mobilising the Power of Data for Africa and the World”.

The Krakow Conference, April 2022 and Launch of Krakow Group

2. Held in April 2022, the Krakow conference brought the IAOS community together in a face-to-face setting for the first time since the pandemic, under the theme of “Worthy information for Challenging Times”. Along with over 40 invited sessions, the conference also included two special events – a special meeting on the Fundamental Principles, and Use and Misuse of Statistics, and a separate training session on Small Area Estimation.

3. The Krakow conference also saw the launch of the Krakow Group, which will deal with the Use and Misuse of Statistics. The Krakow Group is evolving well and we hope that in the World Statistics Congress, July 2023 the Krakow Group will be fully functional.

Webinars and New Platform

4. IAOS organized many webinars with focus on issues that have underpinned the establishment of the Krakow Group, including the role of the UN Fundamental Principles of Official Statistics, enhancing trust in Statistics.

SJIAOS and Official Statistics Platform:

5. New Editor-in-Chief

6. The Statistical Journal of the IAOS (SJIAOS) is the flagship journal of the International Association for Official Statistics.

Awards and Prizes

8. IAOS Prize for Young Statisticians

The winners of 2020 and 2021, who could not come to the previous conferences due to the COVID-19 pandemic, received their prizes in April 2023, while attending the 17th IAOS-ISI Conference, in Livingstone, Zambia.

We are very happy that we could acknowledge their excellent work. The international prize encourages young statisticians to take an active interest in official statistics and is awarded for the best paper in the field of official statistics written by a young statistician.
2022 gave SJIAOS a new Editor-in-Chief

The Statistical Journal of the IAOS (SJIAOS) is the flagship journal of the International Association for Official Statistics.

SJIAOS and its associated Official Statistics Platform gives a wider opportunity for the statistical community to debate issues related to Official Statistics.
Since 1977

IASC: International Association for Statistical Computing
The connection between statistics and computer science is intertwined in our daily lives.

The International Association for Statistical Computing (IASC) was founded during the 41st Session of the ISI in 1977, as a Section of the ISI. The Association is affiliated with the International Federation of Information Processing Societies (IFIP).

Objectives
The objectives of IASC are to foster world-wide interest in effective statistical computing, and to exchange technical knowledge through international contacts and meetings between statisticians, computing professionals, organizations, institutions, governments and the general public.

The IASC pursues its objectives with special attention to developing countries. It promotes collaborative efforts within international, national, regional and other organizations and institutions having similar aims; it fosters evaluations of statistical computing techniques and programs and facilitates the exchange of computer programmes and meetings, particularly in conjunction with sessions of the ISI.

The IASC publishes the journal Computational Statistics & Data Analysis and organises its own Conferences (IASC World Conferences, COMPSTAT in Europe, ARS Conferences on Statistical Computing in Asia) and Summer Schools as well as sections of the ISI Conferences.
Executive Committee & Members

Executive Committee

President: Christophe Croux (France) (See picture)
President-Elect: Chun-houh Chen (Taiwan)
Past-President: Jürgen Symanzik (USA)
Scientific Secretary: Gentiane Haesbroeck (Belgium)
Treasurer: Sugnet Lubbe (South Africa)
Webmaster Kosuke Okusa (Japan)
Executive Director: Conchita Kleijweg (Netherlands, Ex officio)
ARS Chairperson: Ray-Bing Chen (Taiwan, Ex officio)
ERS Chairperson: Maria Brigida Ferraro (Italy, Ex officio)
LARS Chairperson Verónica A. González-López (Brazil, Ex officio)

Other Members

Ying Chen (Singapore)
Rosaria Lombardo (Italy)
Karel Hron (Czech Republic)
Francisco Louzada (Brazil)
Natalia Da Silva (Uruguay)
Tomokazu Fujino (Japan)
Zdenek Hlavka (Czech Republic)
Monday Adenomon (Nigeria)
Luis Firinguetti (Chile)
Stefan Van Aelst (Belgium)
In 2022, IASC achieved...

Organized Conferences


2. IASC-LARS Schools Organized within the 16th Brazilian Meeting of Bayesian Statistics and the 6th Latin American Conference on Statistical Computing, virtual format

3. 6th Latin American Conference On Statistical Computing (LACSC 2022)
   
   A collaboration between IASC-LARS, the Brazilian Society of Bayesian Statistics and the Brazilian Section of the International Society for Bayesian Analysis (ISBA), virtual format

4. IASC-ERS Lake Como School of Advanced Studies on “robust statistics: foundations and recent developments”
   
   Organized by the Classification and Data Analysis Group of the Italian Statistical Society and the University of Milano-Bicocca, in Como, Italy

5. Data Science, Statistics & Visualisation (DSSV), Hybrid Format, National Cheng Kung University, Tainan, Taiwan

6. COMPSTAT (hybrid format), in Bologna

7. IASC-ARS interim conference on the “interplay between statistical computing and AI”

Recognized with Awards and Prizes

8. IAOS IASC-LARS Best Paper Award 2022
   
   Felipe Grillo Pinheiro (Universidade Federal Do Rio Grande do Sul, Brazil)
   
   Paper: Covariance Selection in Phenotypic Trait Evolution Models
In 2022, IASC organised...

**Webinars and Workshops**

9. Survival Analysis Using Modified Kaplan-Meier Model

10. Time Series Econometrics

11. The Importance Of Data Science To Academics And Industry With Nigeria Experience


13. Multivariate Analysis and Techniques Using Stata

14. Statistical Quality Control with Applications in R

15. Response Surface Methodology with Applications in R

16. IASC-ERS organization of the CSDA & EcoSta Workshop on Statistical Data Science (SDS 2022) as a satellite workshop for Compstat

17. Drastic Under-Representation Of African Researchers In Africa-Related Research

18. IASC-LARS Webinar On “Time Series Robust Methods - In The Time And Frequency Domains”

**Projects**

19. Endorsement by the IASC of the webinars organized by the UDP (Universidad Diego Portales, Chile) in the context of the Data Science Year 2022


21. 1st celebration of women in statistics and data science (IDWSDS)
The 3rd physical symposium of the IASC African Members Group held in Nigeria with the theme: Application of Computational Statistics in Industry and Academia using R language was supported by the IASC with the sum of 1500 USD.

TOPICS COVERED
+ Data manipulation with R
+ Regression and Correlation analysis
+ ANOVA: One-way, Two-way, Factorial Design
+ Describe the Key Elements of the SMART Methodology for Nutrition Surveys
+ ENA, the Software Analytical Program Recommended by SMART for Nutrition Assessments
+ Importance of the Standardization Test and the Plausibility Check to Ensure the Quality of the Data
+ Real life discussions with participants to provide mentorship service for their respective projects.

HELD IN 3 LOCATIONS
+ Department of Statistics, Osun State University, Osogbo, Osun State.
+ Bioinformatics Lab, CGEB, Federal University of Technology, Minna, Niger State.
+ Department of Statistics, Federal University of Agriculture, Makurdi, Benue State.
Publications

> CSDA: The official IASC journal, Computational Statistics & Data Analysis

Awarded: IASC-LARS Best Paper Award 2022

Felipe Grillo Pinheiro (Universidade Federal Do Rio Grande do Sul, Brazil)

Paper: Covariance Selection in Phenotypic Trait Evolution Models
In 1977 when the IASC was founded, statistical computing was in its infancy. Now it is a standard skill for every statistics student. But challenges from the growing field of data science keep coming, and development of smart algorithms well founded in statistical knowledge remains crucial. — Christophe Croux, President, IASC
IASE: International Association for Statistical Education

Since 1991
Socrates: Knowledge is our ultimate good.

The International Association for Statistical Education (IASE) seeks to promote, support and improve statistical education at all levels everywhere around the world. It is the international umbrella organization for statistics education. The IASE is a section of the International Statistical Institute (ISI). It was founded in 1991 as an outgrowth of the ISI Statistical Education Committee, which had operated since 1948. Since 2002 the ISI and IASE have published the Statistics Education Research Journal. The IASE is also associated with the quadrennial International Conference on Teaching Statistics, with satellite conferences of the World Statistics Congress, and with smaller roundtable workshops.

Objectives
IASE is the international umbrella organization for statistics education. IASE fosters international cooperation, and stimulates discussion and research. It disseminates ideas, strategies, research findings, materials and information using publications, international conferences, and increasingly, this website.

In 2022 our mission was to increase inclusivity. Some of the activities we undertook to improve inclusivity were organisation of ICOTS 11 as a hybrid conference, choosing Webinar times differently to enable participation from different countries. We are also working on including different languages in our conferences and our journal, the Statistical Education Research Journal, to be able to reach out to wider statistics education community.
Executive Committee

President: Ayse Bilgin (See picture)
Presient-Elect: Dani BenZvi
Past-President: Joachim Engel
Vice-President: Pip Arnold
Vice-President: Bruno De Sousa
Vice-President: Sibel Kazak
Vice-President: Rob Gould
Vice-President: James Musyoka
Ex officio: Conchita Kleijweg

The Full List
Full list of contributions by members who took special assignments can be found here →
In 2022, IASE achieved...

Organised Webinars and Workshops
1. Statistical and Data Literacy in Policy-Making
2. Through a glass darkly - question and answer session
3. Critical Theory in Statistics Education
4. ICOTS keynote presentations
5. CODAP: starting from zero (workshop 1)
6. CODAP: starting from zero (workshop 2)
7. Statistical Learning Projects in Basic and Higher Education
8. Using the R/exams package for an efficient workflow to design, produce, and mark online assessments while safeguarding the academic integrity
9. Raising statistical modeling accessibility to young learners
10. What every (numeracy) educator working with (young) adults should know about Civic Statistics and why
11. What does data science mean for statistics education?

Recognized with Awards and Prizes
12. Best ICOTS Paper by an Early Career Researcher:
   + Awarded to Anne Patel, Professional Teaching Fellow, University of Auckland, New Zealand
   Work: A Framework for Capturing the Development of Statistical Concepts

About ICOTS
The International Conference on Teaching Statistics (ICOTS) is held every four years in different parts of the world, organized by IASE.

The main purpose of ICOTS is to give statistics educators and professionals around the world the opportunity to exchange information, ideas and experiences, to present recent innovation and research in the field of statistics education, and to expand their range of collaborators.
Best ICOTS Paper

Honourable Mention
This award is given to the early career scholars who were close to winning the Best ICOTS award.

+ Kristen E Roland – Brody and Jamie’s Colleague: The Difference in Confidence Interval Estimators and Estimates

+ Darren Macey – The Keys to the Kingdom: Why We Can’t Ignore Assessment if We Care About Real Improvement in the Teaching and Learning of Statistics

Authors From Developing Countries
This award is given to author(s) from developing countries as defined by the World Bank.

+ Eleazar Silvestre, Manual Urrea, Miguel Medina, Mexico – How do Tertiary Students Assess Sampling on Social Contexts and Media Reports? Exploring Students’ Statistical Literacy with Relation to Sampling

+ Janielly Verbisck - Study and Research Paths for Statistics Teacher Education at Secondary School Level: An Exploratory Study (Brazil)

+ Oluyemi Adwole Okunlola, Peter Oseghale Ohue, Dorcas Modupe Okewole, Akintande Joseph Olalekan, Hope Ifeyinwa Mbachu, and Olusanya Elisa Olubusoye - Benchmark Regulation and Delivery of Statistics Education at the University Level in Nigeria (Nigeria)
Statistical Education Research Journal

- Issue 1: Regular Issue
- Issue 2: Special Issue On Data Science
- Issue 3: Regular Issue
Publication: Statistical Education Research Journal, Issue #1

**Regular Issue #1. Topics**

+ **Challenges Associated With Measuring Attitudes Using The Sats Family Of Instruments**: Douglas Whitaker, Alana Unfried, Marjorie Bond

+ **(Mal)Adaptive Cognitions As Predictors Of Statistics Anxiety**: Sara-Emillie McIntee, Jean-Christophe Goulet-Pelletier, Alexandre Williot, Emma Deck-Léger, Daniel Lalande, Michael Cantinotti, Denis Cousineau

+ **Assessing Secondary School Students’ Statistical Reasoning, Attitude Towards Statistics, And Statistics Anxiety**: Siti Shahirah Saidi, Nyet Moi Siew

+ **Design Principles For Developing Statistical Literacy In Middle Schools**: Christian Büscher

+ **Computes: Development Of An Instrument To Measure Introductory Statistics Instructors’ Emphasis On Computational Practices**: Chelsey Legacy, Andrew Zieffler, Elizabeth Brondos Fry, Laura Le

+ **Navigating A Disciplinary Chasm: The Statistical Perspectives Of Graduate Teaching Assistants**: Kelly Findley

+ **Fairness In Games: A Study On Children’s And Adults’ Understanding Of Probability**: Rita Batista, Rute Borba, Ana Henriques

+ **Characterizing Student Experience Of Variation Within A Stem Context: Improving Catapults**: Jane Watson, Noleine Fitzallen, Suzie Wright, Ben Kelly

+ **Developing The Statistical Problem Posing And Problem Refining Skills Of Prospective Teachers**: Aisling Leavy, Daniel Frischemeier

+ **Evaluating The Impact Of Worked Example Videos For Blended Learning In A Large-Enrolment Business Statistics Course**: Sarah Dart
Publication: Statistical Education Research Journal, Issue #2 + #3

Special Issue #2 On Data Science
+ Editorial: Research On Data Science Education Rolf Biehler, Richard De Veaux, Joachim Engel, Sibel Kazak, Daniel Frischemeier
+ Toward Holistic Data Science Education Richard De Veaux, Roger Hoerl, Ron Snee, Paul Velleman
+ Investigating Data Like A Data Scientist: Key Practices And Processes Hollylynne Lee, Gemma Mojica, Emily Thrasher, Peter Baumgartner
+ The 5ws And 1h Of Term Projects In The Introductory Data Science Classroom Mine Cetinkaya-Rundel, Mine Dogucu, Wendy Rummelrider
+ “I Love Math Only If It’s Coding”: A Case Study Of Student Experiences In An Introduction To Data Science Course Erica Heinzman
+ A Place For A Data Science Project In School: Between Statistics And Epistemic Programming Susanne Podworny, Sven Hüsing, Carsten Schulte
+ Teaching And Learning Data-Driven Machine Learning With Educationally Designed Jupyter Notebooks Yannik Fleischer, Rolf Biehler, Carsten Schulte
+ Introducing High School Statistics Teachers To Predictive Modelling AndApis Using Code-Driven Tools Anna Fergusson, Maxine Pfannkuch
+ The 5ws And 1h Of Term Projects In The Introductory Data Science Classroom Mine Cetinkaya-Rundel, Mine Dogucu, Wendy Rummelrider

Regular Issue #3
+ An Analysis Of Teachers’ Confidence In Teaching Mathematics And Statistics Odette Umugiraneza, Sarah Bansilal, Delia North
+ Initial Attitudes Toward Statistics Are Better In Traditional Compared To Online Courses Hiroki Matsuo, Aleise L. Nooner, Amy R. Pearce
+ Psychometric Evaluation Of The Students’ Attitudes Toward Statistics And Technology Scale Alyssa Counsell, Joseph Rovetti, Erin Buchanan
+ Student Performance In Curricula Centered On Simulation-Based Inference Beth Chance, Nathan Tintle, Shea Reynolds, Ajay Patel, Katherine Chan, Sean Leader
+ Young Children’s Use Of Subjective Thinking In Response To Probabilistic Tasks Mary Kingston, Aisling Twohill

+ Integrating The Humanities Into Data Science Education Eric A. Vance, David R. Glimp, Nathan D. Pieplow, Jane M. Garrity, Brett A. Melbourne
+ Machine Learning For Non-Majors: A White Box Approach Koby Mike, Orit Hazzan
+ Data Scientists’ Epistemic Thinking For Creating And Interpreting Visualizations Charlotte Bolch, Kent Crippen
+ Work Integrated Learning In Data Science And A Proposed Assessment Framework Ayse Aysin Bombaci Bilgin, Angela Powell, Deborah Richards
IASS: International Association of Survey Statisticians

Since 1973
**Know reality as it is, through numbers.**

The **International Association of Survey Statisticians** (IASS) aims to develop the theory and practice of surveys and censuses, and increase interest in surveys and censuses among statisticians, governments and the public around the world. Our challenge as survey statisticians is to help shape public opinion and inform government policies to know reality as it is... through numbers. We evolve as the society and the science evolves. IASS' contribution to the ISI is to promote good survey theory and practice around the world, in contrast to fake news and fake 'numbers'.

**Objectives**
Promoting good survey theory and practice around the world.
"IASS' contribution to the ISI is to promote good survey theory and practice around the world, in contrast to fake news and fake 'numbers'." — Monica Pratesi, President, IASS
In 2022, IASS achieved...

Organised Webinars

1. IASS Webinar 13: Making Inferences from Non-probability Samples through Data Integration

2. IASS Webinar 14: Rescuing Non-probability Samples: an Experience with Model-based Inference from a Web-panel Survey

3. IASS Webinar 15: Approaches for Combining Data from Multiple Probability Samples

4. IASS Webinar 16: Three-Form Split Questionnaire Design for Panel Surveys

5. IASS Webinar 17: On Calibration and Balanced Sampling: Webinar in Memory of Jean-Claude Deville

6. IASS Webinar 18: Spatial Sampling and Geospatial Information for Monitoring Agriculture

7. IASS Webinar 19: Substitution of Nonresponding Units in Probability Sampling

8. IASS Webinar 20: Adjusting for Selection Bias in the Volunteer Sample of the 2021 Lithuanian Census – Part I

9. Adjusting for Selection Bias in the Voluntary Sample of the 2021 Lithuanian Census - Part II

10. IASS Webinar 21: Design-based Analysis of Experiments Embedded in Probability Samples


12. IASS Webinar 23: Bridging BigData and Sampling Methodology: What is “big” and where is the “bridge”?

In 2022, IASS published...

The Survey Statistician
14.
The Survey Statistician

+ Editor
Danutė Krapavickaitė (Vilnius Gediminas Technical University, Lithuania)
Eric Rancourt (Statistics Canada)

+ Section Editors
Peter Wright: Country Reports
Ton de Waal: Ask the Experts
Maria Giovanna Ranalli: New and Emerging Methods
Alina Matei: Book & Software Review
Production and Circulation: Maciej Beręsewicz (Poznań University of Economics and Business)

January 2022 Issue
In Spotlight
15.
January 2022 Issue
In Spotlight

+ Six Country Reports
Ask-the-Experts
Stefan Bender from the Deutsche Bundesbank & University of Mannheim and Joseph W. Saskhaug from the German Institute for Employment Research & Ludwig Maximilian, University of Munich discuss the very much changed context of the use of data sources in business statistics.

+ New and Emerging Methods
Jae-Kwang Kim from Iowa State University provides a systematic review of data integration techniques for combining, in particular, a probability sample with a non-probability sample when the study variable is observed in the non-probability sample only.

+ Book Reviews
Big Data Meets Survey Science: A Collection of Innovative Methods Editors: Craig A. Hill, Paul P. Biemer, Trent D. Buskirk, Lili Japec, Antje Kirchner, Stas Kolenikov and Lars E. Lyberg

July 2022 Issue
In Spotlight
16.
July 2022 Issue
In Spotlight

+ Eighteen Country Reports
Paper
New and Emerging Methods from Germany on Tree-Based Machine Learning in Small Area Estimation by Patrick Krennmair, Nora Würz Freie (Freie Universität Berlin) and Timo Schmid (Otto-Friedrich-Universität Bamberg)

+ Ask-the-Experts
How to Measure Disclosure Risk in Microdata? by Prof. Natalie Shlomo (University of Manchester)
In 2022, IASS organised...

**Conference Support & Workshops**

17. Latest developments in the theory and practice of sample surveys and censuses

Date: 12th March 2022

+ Keynote address: Monica Pratesi, IASS President
+ Invited Paper Session: Jae-Kwang Kim
+ Workshop: Utilization of Remote Sensing in Sample Surveys and Censuses
+ Organised by Pak Institute of Statistical Training And Research (PISTAR)

**TACOSM 2022**

18. The 7th ItAlian Conference on Survey Methodology: Survey Methods for Data Integration and New Data Sources

Hosted by: Department of Political Sciences of the University of Perugia (Italy)

**Short Course: Survey Data Integration**

Delivered by Jae-Kwang Kim on 7th June 2022 in Assisi, Palazzo Bernabei, Italy

**Workshop**

19. Workshop on survey data management strategies to improve national planning & development

Attended by more than 70 participants drawn from Ministry of Education, Ministry of Finance, Local Government, Ogun State Bureau of Statistics, Universities, Polytechnics, Ministry of Health and National Population Commission

**Hukum Chandra Memorial Prize**

20. Awarded to Prof. Mahmoud Torabi, University of Manitoba

In 2022, IASS achieved...

IASS in Social Media
21. IASS in Social Media (coordinated by Dr. Annamaria Bianchi):
IASS have been posting regularly on our social media platforms about IASS activities and related contents of interest for our members, namely, webinars, conferences, books, articles, prizes, the newsletter release and its contents, and the recruitment drive.

The number of followers to the pages have increased: since May 2022, Twitter followers increased from 258 to 350, LinkedIn followers from 189 to 991, and Facebook followers from 52 to 125.

Country Representatives & Newsletters
22. Updating of IASS Country Representatives:
IASS now have a total of 60 country representatives of the IASS across all continents but we still have many countries where there is no representative. In October 2022, we started a recruitment drive with the help of the country representatives.

23. IASS Monthly newsletters:
Monthly newsletters can be viewed at: http://isi-iass.org/home/2022-newsletters/
In each newsletter, we feature a Book of the Month.

General Assembly
26. IASS 2022 General Assembly:
The IASS 2022 General Assembly was held on Thursday, 14th July 2022 at 1:00 - 2:00 pm (CEST) in virtual format.

To 2023
24. IASS Invited Paper Sessions (IPS) Proposals to the 64th WSC 2023:
We have 14 IASS sponsored IPS sessions at WSC 2023, and 3 SIPS: (1) President’s Invited Speaker Prof. Fulvia Mecatti; (2) The Waksberg Award Lecture by Prof. Ray Chambers; (3) 2023 Cochran-Hansen prize winners.

25. IASS Strategic Plan 2022-23:
A draft of the IASS Strategic Plan 2022-23 as sent to all IASS Members to get feedback to compose the IASS strategy 2022-23. Initial ideas for a strategy for the IASS for the period 2022-23 were discussed at the IASS General Assembly in July 2021.
Hukum Chandra Memorial Prize

+ Awarded to Prof. Mahmoud Torabi, University of Manitoba

ISBIS: International Society for Business and Industrial Statistics
Statistics for the purpose of decision making in the real world.

The **International Society for Business and Industrial Statistics (ISBIS)** started in 1990 within the ISI as a Working Group in Industrial Statistics. Following a suggestion by Lai K. Chan that ISI should play a role in promoting the area, an open meeting was held at the 1989 ISI Biennial Session (now called World Statistics Congress) in Paris. The group was successful in organizing and sponsoring various activities and stimulating broad participation. This led to the formation of an ISI Standing Committee on Statistics in Industry (CSI) in 1992. The scope of the committee was broadened to include business statistics and the name was changed to Statistics in Business and Industry (SBI) in 1999.

2022 was a new look year for ISBIS in terms of us getting past the pall of the pandemic by being in-person for our biannual conference (Naples, Italy), and redesigning our website as a step toward improving our member engagement.

**Objectives**

ISBIS is dedicated to promoting the advancement and exchange of knowledge in business and industrial statistics, build association and collaboration among international statisticians working in business and industry. It aims to foster cooperation at an international level between statistical activities in business and industry among groups and organizations working in academia, private, and public sectors.
"2022 was a new look year for ISBIS by being in-person for our biannual conference and redesigning our website as a step toward improving our member engagement." — Daniel R. Jeske, President, ISBIS
In 2022, ISBIS achieved...

**Activities**
1. Website overhaul
2. New ISBIS logo
3. New email ID for ISBIS
4. Newsletter transformation
5. Membership survey
6. Proposal for ISI Southeast Asian Outreach Committee
7. MOU with ENBIS

**Conferences and planning**
8. ISBIS Conference at Naples
9. ISBIS Session at ENBIS conference

**Capacity Building Events**
10. Statfin 22 Conference, India
11. Workshop on Common Errors in Statistics, Iran
12. 4th Conference on Statistics and Data Science
13. Planning for ISBIS Satellite Conference at World Statistics Congress 2023
14. Soliciting and Coordinating ISBIS Sessions at World Statistics Congress 2023

**Publications**

**Awards**
17. Cash awards for winning teams and 1-year student ISBIS membership for Iran event
18. World Statistics Congress Gossett Lecture election
Awards

+ Cash awards for winning teams and 1-year student ISBIS membership for Iran event

+ World Statistics Congress Gossett Lecture election
Projects

+ Planning for ISBIS Satellite Conference at World Statistics Congress 2023

+ Soliciting and Coordinating ISBIS Sessions at World Statistics Congress 2023
TIES: The International Environmetrics Society

Since 2008
“Earth” – We borrow it from our children, so let’s treat the Earth well.

The International Environmetrics Society (TIES) is a non-profit organization aimed to foster the development and use of statistical and other quantitative methods in the environmental sciences, environmental engineering and environmental monitoring and protection. In 2008, TIES became one of the associations of the ISI.

Objectives
The International Environmetrics Society (TIES) promotes the participation of statisticians, mathematicians, scientists and engineers in the solution of environmental problems and emphasizes the need for collaboration and for clear communication between individuals from different disciplines and between researchers and practitioners. The Society further promotes these objectives by conducting meetings and producing publications, and by encouraging a broad membership of statisticians, mathematicians, engineers, scientists and others interested in furthering the role of statistical and mathematical techniques in service to the environment.
Executive Committee

President: Yulia R. Gel (See picture)
President-Elect: Claire Miller
Europe Rep: Francesco Finazzi
Global Rep: Amira El-Ayouti
Publication Officer: Amanda Hering
Global Rep: Hsin-Chang Huang
Secretary: Elena N. Naumova
North America Rep: Nathaniel Newlands
North America Rep: Alessio Police
Treasurer: L. Leticia Ramírez Ramírez
Communication Officer: E. Ashley Steel
North America Rep: Hao-Zhang
Ex officio: Conchita Kleijweg

TIES fosters interdisciplinary research.
In 2022, TIES achieved...

**Activities Undertaken**
1. Three TIES working groups have been launched in the areas of
   + Bayesian methods for complex environmental systems
   + Bayesian modeling to apportion ultra-fine particles into their sources
   + AI in environmental statistics
2. Each working group also has two representatives of the TIES committee members to support the leader with logistics.
3. Meetings have been held virtually, with participants from North America, India, and Europe.

**Papers & Sessions**
4. Publication of scientific papers
5. The overview paper at Significance (in preparation)
6. TIES 2022, World Statistics Congress 2023 and JSM 2023 invited sessions

**Conferences & Webinars**
7. TIES 2022 Virtual Conference
   + TIES Working Group Sessions: Lessons Learned Panel on Mentorship Opportunities
8. New TIES Webinar Series On Data Science In Environmental Sciences (DSES)
   + Started in March 2022
   + DSES brings together scientists from a wide range of disciplines with a mutual interest in environmental problems, from statistics, computer science, applied mathematics, engineering, social and political sciences, and earth sciences.
   + DSES is a monthly event, 8+ talks, 500+ registered participants

**Publications in 2022**
9. The Special Issue, Part 1 and Part 2, on Data Science of the Environmetrics Journal
   + Edited by Wesley S. Burr, Nathaniel K. Newlands and Andrew Zammit-Mangion
Abdel El-Shaarawi Early Investigator Award

+ Raphaël Huser, King Abdullah University of Science and Technology (KAUST), Saudi Arabia
2022 was a year of hard work and dedication, as we tackled several major projects simultaneously. – Katie Junasova, International Statistical Institute (ISI)