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# **Highlights**

## ICSA 2023 Applied Statistics Symposium (June 11 – 14, 2023)

The ICSA 2023 Applied Statistics Symposium will be held at the University of Michigan, Ann Arbor, MI. For scientific session proposals, interests, and questions, please contact the co-Chairs of the Organizing Committee, Dr. Jian Kang ([jiankang@umich.edu](mailto:jiankang@umich.edu)) and Dr. Gongjun Xu ([gongjun@umich.edu](mailto:gongjun@umich.edu)). For detailed information and key dates, please refer to the link: [2023 ICSA Applied Statistics Symposium](https://symposium2023.icsa.org/). April 1, 2023 is the deadline for the Student Paper Award Application.

## ICSA 2023 China Conference (June 30 – July 3, 2023)

The 2023 ICSA China Conference will be held at Chengdu, Sichuan, China from June 30 – July 3, 2023. It will be co-sponsored by the Southwest Jiaotong University (SWJTU).   The conference venue is at Jinniu Hotel (金牛宾馆) in Chengdu, China. The hotel information can be found at [首页 - 四川省人民政府金牛宾馆-官方网站-在线客房预订 (jnhotel.com)](http://www.jnhotel.com/). For more information, please contact the Scientific Program Committee Chair, Professor Yichuan Zhao at [yichuan@gsu.edu](mailto:yichuan@gsu.edu) or visit this website: [https://maths.swjtu.edu.cn/english/ICSA\_2023\_China\_Conference.htm](https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmaths.swjtu.edu.cn%2Fenglish%2FICSA_2023_China_Conference.htm&data=05%7C01%7Cyichuan%40gsu.edu%7Cdac08f5315e84943c82f08dacbd9aa80%7C515ad73d8d5e4169895c9789dc742a70%7C0%7C0%7C638047230227601905%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=HLEEEhJzNypPqSUpsj5kbVmaDeaKViIA8GSB3DOYcGw%3D&reserved=0).  The scientific program committee welcomes invited session proposals.   Some related information about submission link and timeline of the invited session proposal is as follows.

### Call for Invited Session Proposals

    One-talk rule will be applied.  Each speaker in this conference can only give one invited talk.

Each invited session consists of either 4 presenters or 3 presenters and 1 discussant.

First check the following link for the proposal submission. Then, submit the session information including session title, brief description, the speakers and the talk titles, etc.

<https://china2023.icsa.org/session-submission-form/>

   Please submit your proposed session before January 15, 2023.

### Call for the ICSA 2023 China Conference Junior Researcher Award

The ICSA 2023 China Conference invites applications for the **Junior Researcher Award.**Awardees will be selected from junior researchers who submit their papers for presentations at the conference to be held in Chengdu, China, June 30 - July 03, 2023. Students or Junior Researchers who received their degrees no earlier than **January 1, 2018**are encouraged to submit a research paper on statistical methodology, novel application of statistical methods to problems in other disciplines, or other suitable contributions to statistics and data sciences. Jointly authored papers are acceptable, but the applicant is expected to be the lead author and present the work in the meeting. In addition, the applicant must be an active ICSA member or joins ICSA at the time of registration, and the paper must not be published or accepted before May 1, 2023.

**Application:**

Formal application consists of sending an e-mail to Dr. Lily Wang at [lwang41@gmu.edu](mailto:lwang41@gmu.edu)  with the subject title as “Application – ICSA 2023 China Conference Junior Researcher Award” with the following attachments (in PDF):

1. A cover letter with contact information

2. The curriculum vita of the applicant

3. The manuscript of the completed research.

The application deadline is **May 1, 202**3.

**Award:**

Papers will be reviewed by the Junior Researcher Award Committee of the ICSA 2023 China Conference and up to five award winners will be selected. Criteria for the selection will include, but are not limited to, novelty in theory/methods/applications, significance and potential impact of the research, and clarity and well-writing in English.

## The 12th ICSA International Conference (July 7 – 9, 2023)

The 12th ICSA International Conference is postponed to July 7 – 9, 2023 at the Chinese University of Hong Kong, Hong Kong. For information, please contact Scientific Program Committee Chair Professor (Tony) Jianguo Sun at [sunj@missouri.edu](mailto:sunj@missouri.edu) or Co-Chair Professor Xingqiu Zhao at Xingqiu.Zhao@polyu.edu.hk. For detailed information, please refer to this site: <https://international2022.icsa.org/>.

The conference’s Junior Researcher Award is extended to February 1, 2023.

## The ISS 40th Anniversary Conference

This conference was successfully held during December 15 – 16, 2022 with a theme in Memory of Academician Yuan-Shih Chow. Academician Yuan-Shih Chow passed away on March 3, 2022. Academician Chow is well known for his academic contributions to the theories of martingale, stopping rule and sequential analysis. For detailed information, please refer to this website: [<https://www3.stat.sinica.edu.tw/40iss/>](https://www3.stat.sinica.edu.tw/40iss/).

# **Corner to Celebrate ICSA Members**

This section is created to highlight the achievements of our members. All ICSA members are encouraged to contact Dr. Jun Zhao, the ICSA Executive Director ([executive.director@icsa.org](mailto:executive.director@icsa.org)) with the brief introduction about themselves and the award.

## Viatris: Reuters Events Pharma Awards USA 2022 Winner

Viatris is the 2022 Reuters Events Pharma Awards USA 2022 Winner in the category: "Most Valuable Data & Insights Initiative Award." The winning project is "Real-World Evidence in a Patient-Centric Digital Era," a Cutting-Edge Multi-Year Book Project.

This award-winning cutting-edge book project, co-edited by Drs. Kelly H. Zou, Lobna A. Salem and Amrit Ray and entitled "*Real-World Evidence in a Patient-Centric Digital Era*" provides methods, perspectives, examples, and insights on the innovative application of RWE to meet patient needs and improve healthcare, with a focus on the pharmaceutical industry.

The authors have presented an overview of key analytical issues and best practices. Special attention is paid to the development, methodologies, and other salient features of the statistical and data science techniques that are customarily used to generate real- world evidence. It provides a review of key topics and emerging trends in cutting- edge data science and health innovation.

**All 2022 Reuters Events Pharma USA Award Winners:**

<https://events.reutersevents.com/pharma/awards-usa/winners>

# **ICSA Springer Book Series in Statistics**

The editor of ICSA Springer book series in statistics, Dr. Din Chen, has reported that there are [24 books](https://www.springer.com/series/13402?detailsPage=titles) in the series now. Two new books were published in 2022 with detailed message below. If you plan to write books in the series, please contact Dr. Din Chen (Ding-Geng.Chen@asu.edu).

[**Emerging Topics in Modeling Interval-Censored Survival Data**](https://www.springer.com/book/9783031123658)

Editor: Jianguo Sun & Ding-Geng Chen

Copyright: 2022

Published: 15 December 2022

[**Advances and Innovations in Statistics and Data Science**](https://www.springer.com/book/9783031083280)

Editors: Wenqing He, Liqun Wang, Jiahua Chen & Chunfang Devon Lin

Copyright: 2022

Published: 28 October 2022

Refer to [this site](https://www.springer.com/new+&+forthcoming+titles+(default)?SGWID=5-40356-404-653425-13402&originalID=176744253&sortOrder=pubdateSortdesc&searchType=BYSERIES&searchScope=editions&resultStart=11) for all other books’ information.

# **Sponsored and Co-Sponsored Journals**

## ICSA Sponsored Journals

### Statistics in Biosciences

The published new issue is Volume 14 Issue 3 in December 2022

[Statistics in Biosciences | Volume 14, issue 3 (springer.com)](https://link.springer.com/journal/12561/volumes-and-issues/14-3)

Recently accepted articles can be found at the journal website

<https://link.springer.com/journal/12561/onlineFirst/page/1>

A link for submitting your article to SIBS online is below

<https://www.editorialmanager.com/sibs/default.aspx>

#### Call for papers: Special Issue on Novel Statistical Approaches for Modeling Exposure Mixtures and Health Outcomes

Statistics in Biosciences invites submissions to the special issue of Statistics in Biosciences dedicated to statistical approaches for modeling exposure mixtures and health outcomes. Recent literature has seen an increased interest in modeling numerous exposures and their relations with various health outcomes. For example, cancer epidemiologists are often interested in human exposures to environmental pollutants and their associations with mortality and morbidity of lung cancer, and researchers in human reproduction are interested in how maternal metabolites are associated with neonatal anthropometries. Common challenges in these analyses include numerous potential exposures of interest, high degrees of correlation between some of these exposures, non-uniform data distributions, non-linear relationships between exposures and outcomes as well as complex interactions, and a prevalence of measurements below the limit of detections, among many others. New methods for exposure mixtures are being developed, yet more work is needed in comparing these methods from both a theoretical and applications perspective. Moreover, with ubiquitous availability of big exposure data and increased desire in understand biological mechanisms from exposures to diseases, new methodological developments are needed in many fronts of exposure mixtures modeling, including causal mediation analysis and sparse and scalable analytical procedures.

The special issue welcomes new methodological developments as well as interesting applications in modeling exposure mixtures. It also welcomes up-to-date reviews of current tools in this area. All submissions must contain original unpublished work not being considered for publication elsewhere. Submissions will be refereed according to the standard procedures for Statistics in Biosciences. **The new deadline for submissions is March 31, 2023.**

Papers for the special issue should be submitted using the journal’s submission system at <https://www.editorialmanager.com/sibs/default1.aspx>. In the system, please choose the special issue on Novel Statistical Approaches for Modeling Exposure Mixtures and Health Outcomes.

Co-Editors for the special issue:

Zhen Chen, Ph.D., National Institutes of Health. Email: zhen.chen@nih.gov

Paul S Albert, Ph.D., National Institutes of Health. Email: albertp@mail.nih.gov

#### Call for papers: Special Issue on Statistical Methods, Algorithms and Applications in Biomedical Data Integration

Integrating multiple data sources has attracted wide interests as part of transition from data to knowledge with the potential to change the analytical scheme of modern biomedical research. In recent years, research initiatives have been created to leverage large-scale observational

 databases from multiple scientific disciplines and technologies, which present many significant methodological and computational challenges to traditional statistical methods and algorithms. Most notably, data collected from observational studies are leveraged for modern biomedical research to enrich study populations and improve controlling confounding factors. Despite infrastructure advancements, methodological and algorithmic challenges remain the barriers for data integration. Common analytical concerns in data integration include data storage and communication restrictions, statistical efficiency, protection of data privacy and against adversarial attacks, data harmonization over different formats, handling of missing data, heterogeneity across data sources, and external validity, among many others. Some new methods, algorithms and applications for data integration are being developed, but much remains unknown in terms of how well they perform or how they compare with conventional approaches. Moreover, with the ubiquitous availability of multi-source data and the increased desire to conduct research with massive data, new methodological and algorithmic developments are needed on many fronts of data integration, including uncertainty quantification, causal inference, and sparse and scalable analytical procedures.

**The deadline for submissions is August 31, 2023.**

Papers for the special issue should be submitted using the journal’s submission system at <https://www.editorialmanager.com/sibs/default1.aspx>. In the system, please choose the special issue on Statistical Methods, Algorithms and Applications in Biomedical Data Integration.

Co-Editors for the special issue:

Peter X.K. Song, Ph.D., the University of Michigan. Email: [xsong@umich.edu](mailto:pxsong@umich.edu)

Lu Tang, Ph.D., University of Pittsburgh. Email: [lutang@pitt.edu](mailto:lutang@pitt.edu)

## ICSA Co-sponsored Journal

### Statistica Sinica

Statistica Sinica is co-sponsored by Institute of Statistical Science Academia Sinica (ISSAS) <https://www.stat.sinica.edu.tw/eng/index.php>.  Forthcoming papers' information is available at [http://www3.stat.sinica.edu.tw/statistica/](https://u2058087.ct.sendgrid.net/wf/click?upn=gOTWIdkfgBFXFdQmgJw0Ey2sMNY3d-2FpvDvmXYvNli7pezP6vhNXVBu1bd5eyyIAyohA6N7cKMP74MGNhyNilCIgMEP4SA2it1PDk8O97GBCwY8Hp5baQSGIfN8VZh8OYSVc43SwByuR-2BYJpgC9gfbTMcdgJ-2FhhdMHV1C7HDoreQRfHHZVcEW7wky32khTh62St6-2FrHS5MXJziHrEPGKBG9WeIvBZolnVvPFMEd3S80kEGkN2-2FM-2FVNcWkhmEW8doXZIGKrLhp4B34GCGl0WOz1umZGYnIFNgJJbsKOEyl91G6ezkWDTDbGwSggNNrpyCncGpVSC20qRvVxEIrwRXW9Ma9pvoEEBQQgv1Dv-2Bibwpp4xtyXTrA2tzHN5PRNTUuAc7ZLcwanhIIlY0fytAFcflSuN12A9tmdooaYLt4dsPYK-2BSI5F2scfo2cxL3-2BePYjZdhA75gK2tv5tGY1pBPdYtw-2FQTpC-2FJtLTW2GIPDREf9gL-2B-2Ff9KCJ5ADKBva6eEJFMlfRa8LhzVHPKi61FNCiyn1PU-2BMljivFtT4iHdSYio8-3D_TBC5mkzPWohEz469hY801C7cN7BhyO5QMcncriRYgj3azUXGUZxMirmnsJpdE89HbDLkfAvqXNNNB5xjk56zGc2-2FwImA17s-2B9E3R2Md-2FxG5eM-2FOK0a2IzNAGinACAD3vojch9fIgi5h9cHQ31JELsSYIVZzcF30hCCfzxmMkOw8BetwTYXu2BwZkGMbGWoLxq-2FJFbMVMjLzZHfVPlnJhV83qbMHXYl9qanOefdkAB3k-3D).The new issue ([Volume 33, Number 1, 2023](https://www3.stat.sinica.edu.tw/statistica/j33n1/33-1.html)) is published.

There are two online special issues for your references:

[Online Special Issue I (539-651): Causal Inference and Short Notes](https://www3.stat.sinica.edu.tw/statistica/j32n11/32-11.html)

[Online Special Issue II (2295-2519): In Honor of Professor Ker-Chau Li](https://www3.stat.sinica.edu.tw/statistica/j32n31/32-31.html)

ICSA members have access to these articles via the "membership only area" at [http://www.icsa.org](https://u2058087.ct.sendgrid.net/wf/click?upn=gOTWIdkfgBFXFdQmgJw0Ey2sMNY3d-2FpvDvmXYvNli7pezP6vhNXVBu1bd5eyyIAyohA6N7cKMP74MGNhyNilCCwWZ2fnMGjltXOXr7zuHsTKI-2BpR70IvKPR4KrKy4WB9yeLf6BAKbUl2N64V44NQw1n-2BVa5QfPEJDPyUJ6S7MwAmxv2vTTluLIpLD2YrAHKYBF-2BkMOcf-2FA428El075js98p44K0IPjllkvO7T-2BX8SO-2B76OGmeyRd3twXsFTAIECjkcH1ECNDNDrNzTJQQqF61BKV4TUQNzvY1vknm8hviBc0GN0rRkdhrZMSAuameV9bwTOwS1zRZFutGs9tesHB338gU9-2FfYrRlq97rwSaRKA2CXgugt5WiOU2tcrmDmbj1nZaUFSndKVQEEPCVq1sGWSG1w6q1hDZ5Ki6gS8c48KB-2Bc3zpqIaLcUSl-2F9MOOxBwMBIn3Bt7EEBQqi6CI6K2bvhyNDqUv4OySuyjdsbx40c-3D_TBC5mkzPWohEz469hY801C7cN7BhyO5QMcncriRYgj3azUXGUZxMirmnsJpdE89HbDLkfAvqXNNNB5xjk56zGc-2FTp2UwaLkFNfwzYf01-2FNFzAXHjFCQDvWMIRFlrwPGYe4tq9GwsOb-2FnZx1DNB-2FhMq8RYsx-2FglYCXFCzDCdWv4EYh3Q4Tufdj4muYDCyWJnaGNUrshWkukc-2BD4uaYuWLnPyBG8jp1CBxHvrVK3im6-2B4-3D).If you have any problems with subscription, please contact the editorial office through[ss@stat.sinica.edu.tw](mailto:ss@stat.sinica.edu.tw).

## Invitation for manuscript submission: special issue of Journal of Biopharmaceutical Statistics (JBS) on AI/ML use cases in medical product development

Although artificial intelligence (AI) and machine learning (ML) are now widely used across many disciplines, the impact of AI/ML in biopharmaceutical statistics has been relatively limited. One drawback for applying AI/ML for medical product development has been the lack of proven real-world use cases that demonstrate the safety and effectiveness of these new technologies; the lack of relevant and actionable biomedical data sources; and the availability of regulatory frameworks that motivate the development of innovative diagnostics and therapies. To broaden application and use of AI/ML in medical product development, the Journal of Biopharmaceutical Statistics (JBS) cordially invites authors to submit papers for a special issue on real-world applications of AI/ML across all stages of the medical product lifecycle, such as:

Building predictive tools for drug discovery (see Artificial Intelligence for Early Drug Discovery);

Recommending which treatment pathways to target based on patient characteristics and medical history;

Integrating multimodal data sources, e.g., genomic and clinical data, for diagnosis and/or disease stratification;

Diagnosing disease and predicting disease progression;

Predicting the treatment effect of an intervention and developing individualized treatment rules;

Recruiting patients for Phase II and III of clinical trials to increase trial size, improve patient–trial matching, and/or enrich for populations who are likely to benefit most from the investigational drug/treatment;

Monitoring patients automatically and continuously during the trial for risk mitigation;

Leveraging new technologies such as wearable devices and wireless patient monitoring devices for disease screening and/or personalizing treatment;

Post-market surveillance of medical products to detect elevated rates of adverse events.

**Deadline for submission**: June 30, 2023, abstracts due on January 31, 2023

**Contribution types**: original research, reviews, and/or short communications

**Submission Instructions**:

Go to https://rp.tandfonline.com/submission/create?journalCode=LBPS. Follow the submission steps under “Author” tab.

In Step 1, for Type, please select “Special Issue”; for Title, please include the wording “[Special Issue: AI/ML]” before the main title. The rest of the steps will be similar to other submissions.

All manuscripts will be peer-reviewed. For further questions regarding submission, please contact [Margaret Gamalo [Pfizer] margaret.gamalo@pfizer.com](mailto:Margaret%20Gamalo%20[Pfizer]%20margaret.gamalo@pfizer.com), Yushi Liu [Lilly] liu\_yushi@lilly.com; Mengxing Li [Insightin Health] mengxingli0324@gmail.com; Jean Feng [UCSF] Jean.Feng@ucsf.edu; Helen Zhou [GSK] [helen.8.zhou@gsk.com](mailto:helen.8.zhou@gsk.com)

Looking forward to your submissions!

Guest Editors:

[Margaret Gamalo [Pfizer]](mailto:Margaret%20Gamalo%20[Pfizer]%20margaret.gamalo@pfizer.com) , Yushi Liu [Lilly]; Mengxing Li [Insightin Health]; Jean Feng [UCSF]; Helen Zhou [GSK]

# **Upcoming ICSA Meetings**

Please find below a list of upcoming ICSA meetings. This list also appears on the ICSA website. Meetings not included in this list are not official ICSA meetings. If you have any questions, please contact Dr. Jun Zhao, the ICSA Executive Director

**(**[executive.director@icsa.org](mailto:executive.director@icsa.org)).

All upcoming ICSA conferences are listed under [highlights section](#_Highlights).

# **Upcoming Co-Sponsored Meetings**

Please find below a list of upcoming ICSA co-sponsored meetings. This list also appears on the ICSA website. Meetings not included in this list are not officially co-sponsored meetings. If you have any questions, please contact Dr. Jun Zhao, the ICSA Executive Director ([executive.director@icsa.org](mailto:executive.director@icsa.org)).

## The 8th Workshop on Biostatistics and Bioinformatics (Postponed to Spring, 2023)

Biostatistics and Bioinformatics have been playing key and important roles in statistics and other scientific research fields in recent years. The goal of the 8th workshop is to stimulate research and to foster the interaction of researchers in Biostatistics & Bioinformatics research areas. The workshop will provide the opportunity for faculty and graduate students to meet the top researchers, identify important directions for future research, facilitate research collaborations. The workshop will be held at Atlanta, GA.

A keynote speaker is Dr. Nilanjan Chatterjee, Bloomberg Distinguished Professor of Biostatistics and Medicine at the Johns Hopkins University.

For detailed information including registration, please refer to <https://math.gsu.edu/yichuan/2022Workshop/>

Please contact Dr.Yichuan Zhao ([yichuan@gsu.edu](mailto:yichuan@gsu.edu)) for more information.

[Statistical Foundations of Data Science and their Applications](http://fan60.princeton.edu/): A conference in celebration of Jianqing Fan’s 60th Birthday (May 8 – 10, 2023)  
The conference, co-sponsored by ICSA, will be held at Princeton University in May 8-10, 2023. It will bring together collaborators and leading researchers in statistics and data science. The conference will provide an excellent forum for scientific communications and promote collaborations among researchers in statistics and data science. The program covers a wide range of topics presenting recent developments and the state of the art in a variety of modern research topics on statistics and data science as well as their applications. For more information, visit https://fan60.princeton.edu/ or contact the local organizing committee chair: Matias D. Cattaneo ([cattaneo@princeton.edu](mailto:cattaneo@princeton.edu)) or the program chair: Runze Li ([rzli@psu.edu](mailto:rzli@psu.edu)).

For details, please refer to this link: [Statistical Foundations of Data Science and their Applications is coming soon. | Statistical Foundations of Data Science and their Applications (princeton.edu)](http://fan60.princeton.edu/)

## Dose Finding and Other Topics in Drug Development Honoring Dr. Naitee Ting (June 8 – 9, 2023)

the [*Dose Finding in Drug Development and Beyond*](https://events.stat.uconn.edu/dose-finding-in-drug-development-and-beyond/index.html) conference, co-sponsored by ICSA, will take place at University of Connecticut, Storrs Campus, from June 8 – 9, 2023.

Finding the right dose(s) is one of the most important objectives and challenging phase in new drug development. The first book on the subject, Dose Finding in Drug Development, was published in 2006 and edited by Dr. Naitee Ting. This book is highly regarded by his peers and is considered a leading reference title in the environs of dose response for clinical trials. Building upon basic principles found in the book, many advancements have occurred since. The conference covers these important topics, as well as other related topics, and celebrates the 70th birthday of Dr. Naitee Ting who helped to pioneer this field of research.

The conference brings together stakeholders from various scientific disciplines who seek to share research in a collegial environment for the advancement of dose-finding science in clinical trials. The conference also provides a collaborative environment for young researchers seeking to learn more about the field, develop networks, and connect with top researchers. Modalities include oral presentations, short courses, poster exhibits, and flash talks. Located between Boston and New York City, the University of Connecticut at Storrs is a major research and teaching institution located in a picturesque environment.

It is a distinct honor to recognize Dr. Naitee Ting’s many contributions to statistics and the pharmaceutical sciences at the Dose Finding in Drug Development and Beyond conference. More details can be found at the conference website: <https://events.stat.uconn.edu/dose-finding-in-drug-development-and-beyond/index.html>

If you are interested in organizing an invited or a contributed session, please email Qiqi Deng <[qiqi.deng@modernatx.com](mailto:qiqi.deng@modernatx.com)> and Wen Zhou <[rickzhouwen@gmail.com](mailto:rickzhouwen@gmail.com)>.

If you would like to share photos of Dr. Naitee Ting and/or videos of greetings, please email Yiming Zhang <[yiming.3.zhang@uconn.edu](mailto:yiming.3.zhang@uconn.edu)> and Wenlin Yuan <[wenlin.yuan@uconn.edu](mailto:wenlin.yuan@uconn.edu)>.

A virtual platform will also be made available for participants who cannot attend in person. We look forward to hearing from you and seeing you at the conference.

## IMS Asia Pacific Rim Meeting (Postponed to January 2024)

The sixth meeting of the Institute of Mathematical Statistics Asia Pacific Rim Meeting (IMS-APRM) will provide an excellent worldwide forum for scientific communications and collaborations for researchers in Asia and the Pacific Rim, and promote collaborations between researchers in this area and other parts of the world. The meeting will be held in Melbourne, Australia and please see <http://ims-aprm2021.com/> for details. Firm dates will be announced later.

# **Online Training and Seminars**

## Healthcare Innovation Technology: The Pod of Asclepius

Looking to stay up to date on developments in health care technology around the world? The American Statistical Association is sponsoring “The Pod of Asclepius”, a new podcast where data scientists, statisticians, engineers, and regulatory experts discuss the technical challenges in their healthcare domain.

We have over 20 episodes published and available on YouTube, Podbean, iTunes, Stitcher, Podchaser, Tune In Radio, and Google Play.

Looking for a good place to start? Check out the following newly released episode links:

* [The Logic of Statistics](https://www.youtube.com/watch?v=FqE4ROHBKpY) with Keith O’Rourke
* [Causal Inference (The Mixtape)](https://www.youtube.com/channel/UCkEz2tDR5K6AjlKw-JrV57w/videos?view=0&sort=dd&flow=grid) with Scott Cunningham

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**Fall Series: The Philosophy of Data Science**

The series is aimed at incoming statistics and data science students (but will be of significant interest to the general statistics / data science community). The topics will focus on how scientific reasoning is essential to the practice of data science.

For detailed information, please visit: <https://www.podofasclepius.com/philosophy-of-data-science>.

# **Job Listings**

## Faculty Position at National Sun Yat-sen University, Kaohsiung, Taiwan

The Department of Applied Mathematics at National Sun Yat-sen University invites applications for several full-time faculty positions (subject to the approval by the University) beginning August 1, 2023. Recent PhDs with exceptional potential at the rank of assistant professor and/or internationally well-established senior candidates at the rank of associate or full professor will be considered. All areas of mathematics, applied mathematics, scientific computing and statistics, plus specialties in data science and AI will be considered. A successful candidate should have a relevant Ph.D., plus a strong research record and excellence in teaching. He/She should be able to teach in English. **Applicants please send, by February 6, 2023, a cover letter of application, curriculum vitae, transcripts, research summary, representative reprints and three recommendation letters to**

Chairperson

Department of Applied Mathematics, National Sun Yat-sen University, Kaohsiung 804, Taiwan, R.O.C.

Email: head@math.nsysu.edu.tw

Tel : +886-7-5252000 ext. 3800, 3834; Fax: +886-7-5253809

Website: <http://www.math.nsysu.edu.tw>

We also welcome applications from scholars with foreign nationalities and English proficiency.

**Faculty Position in Business Statistics  
Department at the Hong Kong University of Science and Technology (Job ID 8033)**

The Department of Information Systems, Business Statistics and Operations Management (ISOM) at HKUST School of Business and Management invites applications for a substantiation-track Assistant Professor position in the Business Statistics area beginning in July 2023.

Candidates must have received a doctorate in Statistics or a related area by the time of the appointment. The candidates must also have a strong commitment to high-quality research in Statistics and excellent teaching. The successful candidate should have the ability to teach effectively at the MBA, Master’s and undergraduate levels. As the Statistics group is housed in the School of Business and Management, candidates who also have the ability to conduct excellent collaborative research relevant to traditional business school disciplines, and also able to contribute to the School’s interests in Business Analytics via teaching, research or service, are highly desired.

Starting salary will be highly competitive and commensurate with qualifications and experience. Fringe benefits including annual leave and medical/dental benefits will be provided.  Housing benefits will also be provided where applicable. Initial appointment will normally be on a three-year contract, renewable subject to mutual agreement. A gratuity will be payable upon completion of contract.

**Application Procedure**  
To apply, please submit a CV, the names and addresses of three referees to:

Recruitment Committee of Statistics Group  
Department of Information Systems, Business Statistics and Operations Management  
The Hong Kong University of Science and Technology  
Clear Water Bay, Kowloon  
HONG KONG  
Email: statrecruit@ust.hk  
Fax: (852) 2358-2421

Review of applications will continue until the position is filled.

## Assistant Professor in Data Science and Analytics / Applied Statistics and Financial Mathematics / Engineering and Computational Mathematics / Applied Optimization and Operations Research (Ref. 221014028) at the Hong Kong Polytechnic University

The Department of Applied Mathematics (AMA) is part of the Faculty of Science. The Department offers Bachelor of Science Scheme in Data Science, and makes a significant contribution to most of other academic programmes of the University by providing service teaching. It also offers master programmes in Applied Mathematics for Science and Technology with specialisms in Decision Science, Actuarial and Investment Science, Operational Research and Risk Analysis, and Data Science and Analytics. Members of the Department have expertise in applied optimization and optimal control, engineering computation, operational research, management science, applied statistics, FinTech, data science and machine learning. There are currently 52 academic staff and about 61 research personnel in the Department. Please visit the website at <http://www.polyu.edu.hk/ama> for more information about the Department.

The Department has established a Joint Laboratory of Applied Mathematics with the Academy of Mathematics and Systems Science of the Chinese Academy of Sciences. The appointee is expected to be actively involved in the activities of the Laboratory.

**Duties**

The appointee will be required to:

(a) teach and contribute to curriculum development at undergraduate and postgraduate levels;

(b) supervise MPhil and PhD students;

(c) engage in scholarly research, consultancy and other scholarly activities leading to publications in top-tier refereed journals and award of research grants;

(d) undertake academic and departmental administrative duties; and

(e) perform any other duties as assigned by the Head of the Department or his/her delegates.

**Qualifications**

Applicants should:

(a) have a PhD in Mathematics / Statistics / Financial Mathematics / Operations Research / Computational Mathematics / Applied Mathematics or a closely related field, with experience in Data Science and Analytics;

(b) have expertise in applied statistics, operation research and mathematics;

(c) have an established track record in research and scholarship, including refereed publications and external grant applications;

(d) have a demonstrated commitment to excellence in teaching; and

(e) be highly proficient in written and spoken English.

**Conditions of Service**

A highly competitive remuneration package will be offered. Initial appointment will be on a fixed-term gratuity-bearing contract. Re-engagement thereafter is subject to mutual agreement. For general information on terms and conditions for appointment of academic staff in the University, please visit the website at <https://www.polyu.edu.hk/hro/docdrive/careers/doc/Prof.pdf>.

**Application**

Please submit an application through PolyU’s career website (<https://jobs.polyu.edu.hk/academic>). **Consideration of applications will commence on 4 November 2022 until the position is filled.** The University’s Personal Information Collection Statement for recruitment can be found at <https://www.polyu.edu.hk/hro/careers/pics_for_recruitment/>.

## Assistant Professor in Applied Statistics and Financial Mathematics / Engineering and Computational Mathematics / Applied Optimization and Operations Research (Ref. 221014027) at the Hong Kong Polytechnic University

The Department of Applied Mathematics (AMA) is part of the Faculty of Science. The Department offers Bachelor of Science Scheme in Data Science, and makes a significant contribution to most of other academic programmes of the University by providing service teaching. It also offers master programmes in Applied Mathematics for Science and Technology with specialisms in Decision Science, Actuarial and Investment Science, Operational Research and Risk Analysis, and Data Science and Analytics. Members of the Department have expertise in applied optimization and optimal control, engineering computation, operational research, management science, applied statistics, FinTech, data science and machine learning. There are currently 52 academic staff and about 61 research personnel in the Department. Please visit the website at <http://www.polyu.edu.hk/ama> for more information about the Department.

The Department has established a Joint Laboratory of Applied Mathematics with the Academy of Mathematics and Systems Science of the Chinese Academy of Sciences. The appointee is expected to be actively involved in the activities of the Laboratory.

**Duties**

The appointee will be required to:

(a) teach and contribute to curriculum development at undergraduate and postgraduate levels;

(b) engage in scholarly research, consultancy and other scholarly activities leading to publications in top-tier refereed journals and award of research grants;

(c) undertake academic and departmental administrative duties; and

(d) perform any other duties as assigned by the Head of the Department or his/her delegates.

**Qualifications**

Applicants should have:

(a) have a PhD in Mathematics / Statistics / Financial Mathematics / Operations Research / Computational Mathematics / Applied Mathematics or a closely related field;

(b) have expertise in applied statistics, operation research and mathematics;

(c) have an established track record in research and scholarship including refereed publications;

(d) have a demonstrated commitment to excellence in teaching; and

(e) be highly proficient in written and spoken English.

**Conditions of Service**

A highly competitive remuneration package will be offered. Appointment will only be on a fixed-term gratuity-bearing contract.

**Application**

Please submit an application through PolyU’s career website (<https://jobs.polyu.edu.hk/academic>). **Consideration of applications will commence on 4 November 2022 until the position is filled.** The University’s Personal Information Collection Statement for recruitment can be found at <https://www.polyu.edu.hk/hro/careers/pics_for_recruitment/>.

## Research Assistant Professor in Applied Statistics and Financial Mathematics / Engineering and Computational Mathematics / Applied Optimization and Operations Research / Data Science and Analytics (three posts) (Ref. 220907002) at the Hong Kong Polytechnic University

The Hong Kong Polytechnic University is a government-funded tertiary institution in Hong Kong. It offers programmes at various levels including Doctorate, Master’s and Bachelor’s degrees. It has a full-time academic staff strength of around 1,200. The total annual consolidated expenditure budget of the University is in excess of HK$7.6 billion.

The Department of Applied Mathematics (AMA) is part of the Faculty of Science. The Department offers Bachelor of Science Scheme in Data Science, and makes a significant contribution to most of other academic programmes of the University by providing service teaching. It also offers master programmes in Applied Mathematics for Science and Technology with specialisms in Decision Science, Actuarial and Investment Science, Operational Research and Risk Analysis, and Data Science and Analytics. Members of the Department have expertise in applied optimization and optimal control, engineering computation, operational research, management science and applied statistics, FinTech, data science and machine learning. There are currently 52 academic staff and about 61 research personnel in the Department. Please visit the website at <http://www.polyu.edu.hk/ama> for more information about the Department.

The Department has established a Joint Laboratory of Applied Mathematics with the Academy of Mathematics and Systems Science of the Chinese Academy of Sciences. The appointees are expected to be actively involved in the activities of the Laboratory.

**Duties**

The appointees will be required to:

(a) conduct research as the main duty and actively pursue external research grants, such as General Research Fund, as Principal Investigator or Co-Investigator;

(b) provide quality teaching at undergraduate or postgraduate level;

(c) contribute to departmental service; and

(d) perform any other duties as assigned by the Head of the Department or his/her delegates.

**Qualifications**

Applicants should:

(a) have a doctoral degree in Mathematics / Statistics / Financial Mathematics / Operations Research / Computational Mathematics / Applied Mathematics or a closely related field with experience in Data Science and Analytics;

(b) have demonstrated promise of a high level of creativity in research and teaching in some subdivisions of his/her field;

(c) be able to demonstrate effective classroom teaching; and

(d) be highly proficient in written and spoken English.

**Conditions of Service**

A highly competitive package including a medical benefits plan and a gratuity payable upon completion of the term which is normally for three years initially, with possibility of extension for another three years.

**Application**

Please submit an application through PolyU’s career website (<https://jobs.polyu.edu.hk/rap>). **Consideration of applications will commence on 28 September 2022 until the positions are filled.** The University’s Personal Information Collection Statement for recruitment can be found at <https://www.polyu.edu.hk/hro/careers/pics_for_recruitment/>.

To apply for this job please visit [jobs.polyu.edu.hk](https://jobs.polyu.edu.hk/rap).