

SSA Biostatistics & Bioinformatics Newsletter

Q1 2022

Welcome to the SSA Biostatistics and Bioinformatics Newsletter for Q1 2022



situation at the humanistic level with the war in Ukraine paints a dire picture of what power concentrated in one person can do. On the other hand, we see the efforts of better (real) humans come to light in trying to aid those in need. The Covid pandemic has been put on the back burner for many state governments and for many media outlets too; on September 9 2021 in NSW (to pick one day/site) it was news to have ~1400 new cases. Today, with ~20,000 new cases, you can only find the number by

Welcome to the first SSA Biostatistics and Bioinformatics (BnB) section newsletter for 2022. The world we live in today is one that asks us to see it through different lenses. The

purposely searching online. Once again, the translation of information ends up playing a bigger role than the actual measurement and creation of such information. Food for thought for our profession. Borrowing from the last newsletter "As much of the country faces higher numbers of cases and ignored uncertainty, it is important that we foster every opportunity for increased connection among biostatisticians and bioinformaticians across the country". We can make life brighter, and on that aim, we are happy to share with you our first 2022 SSA BnB newsletter. The new committee has started to get on track, and we are looking forward to making this a great year for the section. We extend our gratitude to the committee members whose terms came to an end in December: Alysha De

Livera, Nicole De La Mata, and Murthy Mittinty who were amazing for the section and in helping with the transition to the new committee members. You may see that we have a "new" initiative of lunchtime seminars organised by the section, keep your eye out for news of these. Also be on the lookout for the new BnB banner that is currently in development! Smiles to all. A.N.A on behalf of the SSA BnB committee

COVID19 Webinar Feedback

Opportunities and Lessons for Australia's Biostatistics, Bioinformatics and Epidemiological

The B&B Section hosted a workshop on the 30th March titled "COVID-19: Unexpected

• Prof Adrian Esterman, Adrian is Chair of Biostatistics and Epidemiology at the University of South Australia, a position he has held for the past seventeen years. His career includes five years as a WHO staff member based in Geneva and two

years as a staff member in the WHO European office in Copenhagen. He was for

Community".

The speakers were

- many years Principal Epidemiologist for the SA Department of Health until moving to · Gideon Meyerowitz-Katz, Gideon Meyerowitz-Katz is an epidemiologist working in public health in western Sydney, primarily chronic disease, and is completing his PhD with the University of Wollongong in diabetes epidemiology. The session was extremely well attended, and we would love feedback from those who attended. Feel free to get in touch with our webinar
- coordinator taya.collyer@monash.edu Watch this space for more exciting Webinars and events each quarter organised by the B&B Section. Save the dates: June 29th, September 28th, December 14th.

Careers Corner

Lecturer and Senior Lecturer - Biostatistics (University of Sydney)

Two academic continuing positions (Lecturer and Senior Lecturer)

ranging from \$110K p.a. - \$135K p.a. + 17% superannuation

Applications Close: Thursday 14 April 2022 11:59 PM

· Full time fixed term one year

• Teaching and research in Biostatistics at the Sydney School of Public Health

• Full time (part time may be considered), continuing positions with a base salary

For more Information click here

Senior Postdoctoral Researcher - Bioinformatics (University of Sydney)

- · Opportunity to develop and conduct research as part of overall projects on behalf of the group Leader and senior postdoctoral scientists within the group Academic Level B, Base Salary \$110,856 - \$131,639 + 17% superannuation
- Applications Close: Monday 18 April 2022 11:59 PM For more Information click here
- **Upcoming Events**

MACH (Melbourne Academic Centre for Health) is pleased to present a four-part webinar series exploring research design tailored specifically for early and mid-career researchers. The series will be conducted by experts from the University of Melbourne's Methods and

Organisation: Australian Sensitive Data Interest Group

how to access linked sensitive data.

Date: 6th April

Date: 6th April

Date: 6th April Time: 12-1 AEST

Series

Date: 12-13 May Time: 5pm AEDT

Date: 10-15 July

Riga, Latvia

Organisation: MACH EMCR Research Design Webinar Series

What's It Going to Take to Get Your Study Started? Pilot and Feasibility Studies

Implementation Support for Clinical and Health research Hub (MISCH) team from February-June 2022. **Linked Sensitive Data – a Beginners Guide**

Time: 12-1 AEST Many of our life experiences, from the moment we are born until our death generate data that is collected and used for a range of purposes. For example, information is routinely collected when you go to school, visit a hospital, when you get married or when you have a baby. This data is collected by different organisations. This data is sensitive and if brought together (linked) can be a valuable tool for research. This presentation will include

examples of linked data used for research, how data is routinely linked in Australia and

About the speakers: Felicity Flack is the Manager, Policy and Client Services for Australia's national data linkage infrastructure, the Population Health Research Network. She has extensive experience in the development, coordination and operation of national data

linkage systems particularly the navigation of cross-jurisdictional legislative, policy and ethical issues. She also has many years of experience in research ethics including working as a research ethics manager as well as being a member and Chair of a human research ethics committee. Felicity is a Churchill Fellow. WEBINAR: Protection of genomic data and the Australian Privacy Act: when is genomic data 'personal information'? Organisation: Australian Bio Commons

reflect on the characteristics of each, and the possibility of more clearly identifying the legal rights and responsibilities which attach to the use and disclosure of genomic data in the future.

Australian Bioinformatics and Computational Biology Society National Seminar

Professor Mark Taylor explores the relationship between the legal concept of genetic information and the concept of genomic data relevant to health and medical research,

Date: 19th April Time: 12-1 AEST

A graph-based approach to capture clinical patterns of progression in melanoma patients Dr. Ismael Vergara, Melanoma Institute Australia

Organisation: Statistical Society of Australia

Radisson Blu Latvija Conference & Spa Hotel

A multi-omics approach to understanding how the gut microbiota shape immune responses Dr. Ryan Feargal, SAHMRI **CPD 129-Introduction to Machine Learning for Health Data**

SSA is proudly offering this 2 day course with Presenter Dr Oscar Perez-Concha, Centre for Big Data Research in Health, UNSW Sydney. This workshop introduces the basics for understanding and using machine learning algorithms. XXXI International Biometric Conference (IBC 2022) - external event

International Biometric Conferences have been sponsored by the International Biometric Society (IBS) since 1947 and represent one of the major activities of the IBS. The Society organizes a major international conference every two years.

recently joined the University of Adelaide for an independent original research position, relocating from a Senior Data Scientist role I held for the last two and a half years in the South Australian Health

Meet our mailing list

What are your background studies in and how did you join this field? My Bachelor

Name: Max Moldovan

Where do you currently work? I have

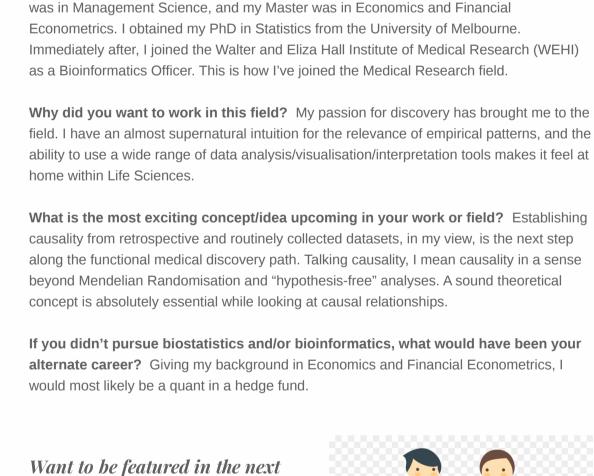
and Medical Research Institute (SAHMRI) Having been with SAHMRI for over seven

years overall, it's a big move for me,

What field do you associate with, biostatistics or bioinformatics (or both)? The answer is both. My most recent Data Scientist title would probably

requiring some courage.

describe what I do the best.



We are always in need of more member profiles. Its a great way to get some exposure to our >500 readers. If interested, please let Alberto Nettel-Aguirre or Nicola Armstrong know.

member profile?

Podcasts & Blogs

A range of biostatistics and bioinformatics blogs and podcasts have been listed in our previous newsletters. Here we will be highlighting a couple of podcasts that

might interest our mailing list readers.

Statistical Society's annual conference, the Stats + Stories podcast has released a series of episodes including the role of statisticians in public engagement during the COVID-19 pandemic. **Biostats & Clinical Trial Design** In this episode of Learning Bayesian Statistics, Professor Frank Harrell shares his career journey as a biostatistician and the role of Bayesian modelling for making the most of data collected by clinical trials. You can listen to the episode here.

CSIRO Transformational Bioinformatics

genomics research.

73:sup1, 157-167

Transformational Bioinformatics group, including expert

commentaries about proposed solutions and their impact on the field. The blog also regularly posts an explainer-series, covering aspects on cloud-based computing and its role in advancing

Do you have a favourite statistical podcast or blog?

If you would be happy to provide a brief overview of your favourite statistical podcast or blog to feature on our mailing list, please contact Kylie-Ann Mallitt with the details.

(2019) An Introduction to Second-Generation p-Values, The American Statistician,

After the ASA Statement on p-values, many papers discussing their merits or defects have

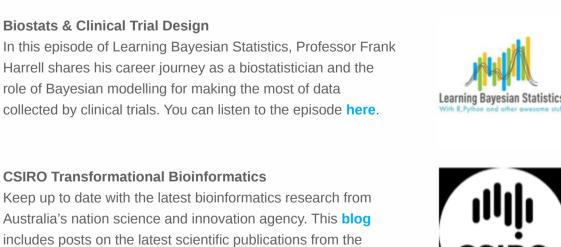
"significant/non significant". In this paper Blume et. al. discuss the issue that p-values are still based on one point hypothesis, while useful/practical information is most of the time based on a range of values that , for practical purposes, are equivalent. Not only is the discussion presented, they construct their Second Generation P-Values (SGPV) based on

been published. One of the critiques to p-values is the use of them as a separator of

whether data are informative of effects, even if departing from the dichotomy of

2021 may not have been the year for conference travel, but that doesn't mean we can't stay connected. Alongside the Royal

Stats + Stories



Featured articles An Introduction to Second-Generation p-Values, Jeffrey D. Blume, Robert A. Greevy, Valerie F. Welty, Jeffrey R. Smith & William D. Dupont

these interval hypotheses and as a way to address practical interpretability to "data supporting hypothesis". Their approach allows one to do without adjustments for multiple comparisons, among other rather nice qualities. The use of SGVP is illustrated in the analysis of snips associated with prostate cancer. Recent publication that you'd like to share?

We love learning about all things related to biostatistics and bioinformatics. If you have a recent publication (your own or other) that you'd like to have featured in our newsletter,

Closing comments

our members, especially regarding ideas for events, presentations, and/or workshops. We hope you enjoyed reading about upcoming events. We hope all our members stay safe an well through the rest of 2022. To view previous newsletters please see our **section's webpage**.

please contact Nicola Armstrong with the details.

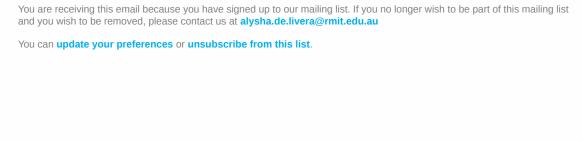
If your colleagues would like to receive this newsletter, they can sign up via mailchimp

Our Section is interested in biostatistics and bioinformatics and we are committed to assisting you with your career in these fields. We are interested in hearing from

Social media We encourage all our members to follow our activities on our social media account links

Want to change how you receive these emails?

below. We actively promote upcoming events, job opportunities and relevant material. Our online community is growing on Facebook and Twitter! If you have any material you would like us to promote on our social media outlets or share with fellow members, please let Kylie-Ann Mallitt or Nicole White know.





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