

Statistical Society of Australia

SSA Biostatistics & Bioinformatics Newsletter

Q2 2022

Welcome to the SSA Biostatistics and Bioinformatics Newsletter for Q2 2022



As we prepare to enter the second half of 2022, we face great uncertainty. Against the backdrop of continued global financial and political unrest, locally we are each wrestling with the return to our own version of 'normal' following the height of the pandemic.

Figure 3. Number of people diagnosed with COVID-19, by date of test and type of test performed, NSW, 1 January to 11 June 2022

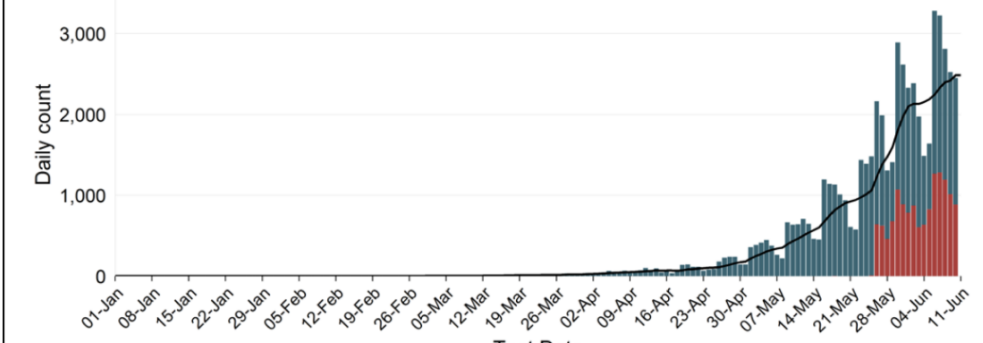
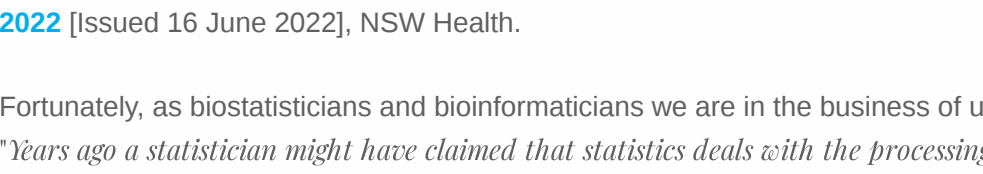


Figure 4. Number of people diagnosed with influenza, by date of test and virus type, NSW, 1 January to 11 June 2022



Source: COVID-19 Weekly Data Overview - Epidemiological week 23, ending 11 June 2022 [Issued 16 June 2022], NSW Health.

Fortunately, as biostatisticians and bioinformaticians we are in the business of uncertainty. 'Years ago a statistician might have claimed that statistics deals with the processing of data... to-days statistician will be more likely to say that statistics is concerned with decision making in the face of uncertainty' - Herman Chernoff

As a close-knit group of national colleagues, we have the tools to continue to guide our nation, providing the information necessary to make evidence-based, informed, decisions about issues affecting the health of all Australians.

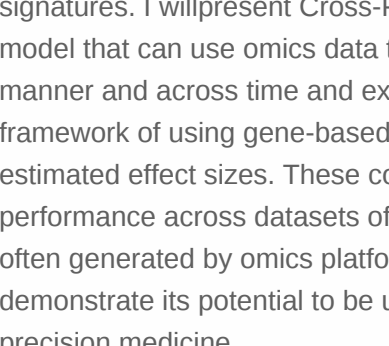
In the spirit of connection, I am very pleased to welcome you to this second SSA Biostatistics and Bioinformatics (BnB) section newsletter for 2022. There are a number of exciting SSA events on the horizon.

Stay in touch with us by subscribing to our Twitter and Facebook pages, and feel free to contact us with any ideas for events, activities or resources that would meet the needs of our >500 member BnB community.

Happy study, designing, analysing, and communicating. And when in doubt, remember, "uncertainty is an uncomfortable position, but certainty is an absurd one" - Voltaire

KAM on behalf of the BnB Section

Upcoming BnB Section Lunchtime Webinar



Cross-Platform Omics Prediction Procedure: a game changer for implementing precision medicine
Professor Jean Yang, University of Sydney
June 29, 12pm (Melbourne time)

To register, [click here](#)

In this modern era of precision medicine, molecular signatures identified by advanced omics technologies hold great promise to better guide clinical decisions. However, current approaches are often location-specific due to the inherent differences between platforms and across multiple centres, thus limiting the transferability of molecular signatures.

Careers Corner

[Research Fellow in Biostatistics](#)
Flinders University, Adelaide or Sydney
Closing Date: 22 June 2022 **closing soon!**

[Biostatistician - Mental Health Australia General Clinical Trial Network](#)
Swinburne University of Technology, Melbourne
Closing Date: 30 June 2022

[Head of Biostatistics/Analytics](#)
Burnet Institute, Melbourne
Closing Date: 29 June 2022

[Statistical Consultant and Biostatistician \(2 roles\)](#)
Stats Central, UNSW Sydney
Closing Date: 3 July 2022

[Bioinformatician](#)
Children's Cancer Institute Australia, Sydney

[Senior Bioinformatics Research Officer](#)
Children's Cancer Institute Australia, Sydney

[Bioinformatics Research Officer](#)
QIMR Berghofer, Brisbane
Closing Date: 28 June 2022

[Bioinformatician](#)
QIMR Berghofer, Brisbane
Closing Date: 27 June 2022

Upcoming SSA Events

SSA Vic Mentoring Night
Date: 21 Jun 2022, 6:00 PM - 8:00 PM (AEST)
Location: The Clyde Hotel
Registration: Non-SSA members - \$25.00, SSA Members - \$5.00

Hi Victorians! SSA Vic invites you to come join us at The Clyde Hotel to talk about careers in statistics and data science with experienced statisticians and data professionals! We will provide finger food so bring your questions and your networking spirit with you!

MACH EMCR Research Design Webinar Series: Economic evaluation alongside clinical trials: principles of study design and decision analysis
Date: 22 Jun 2022, 12:30 PM - 1:30 PM (AEST)
Location: Online
Presenter: Dr An Duy Tran

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 Implementation Support for Clinical and Health research Hub (MISCH) team from February-June 2022.

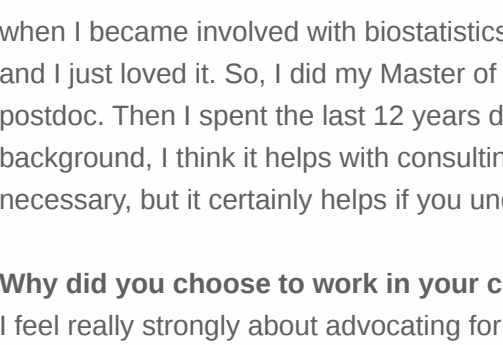
CANBERRA BRANCH MEETING - CURRENT STATE AND PROSPECTS OF R-PACKAGES FOR THE DESIGN OF EXPERIMENTS BY EMI TANAKA
Date: 29 Jun 2022, 5:45 PM - 7:00 PM (AEST)
Location: Hybrid format

SSA Canberra invites you to its (second) June branch meeting, featuring a talk by EMI Tanaka on the current state and prospects of R-packages for the design of experiments!

This is a hybrid meeting, occurring in-person at Allan Barton Forum, The Australian National University and be streamed online via Zoom.

Meet our mailing list

An Interview with Professor Marijka Batterham



Where do you currently work? I'm the director of NIASRA, the National Institute for Applied Statistics Research Australia, and the Statistical Consulting Centre, at the University of Wollongong (UoW).

What were your background studies and how did you join the biostatistics field? My initial undergraduate degrees was a Bachelor of Science majoring in molecular biology and biochemistry. I then did a Master of Nutrition and Dietetics and trained as a dietitian.

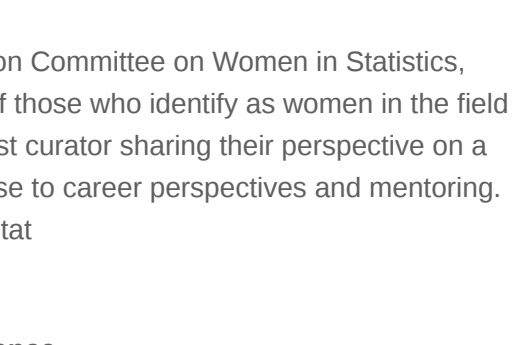
Why did you choose to work in your current field? I feel really strongly about advocating for data literacy so that's why I decided to stay in the consulting area because I'm interested in spreading the word about the importance of data literacy and being able to understand statistical research.

What do you think is the most important concept or idea in biostatistics right now? Reproducible research and software innovations that help to facilitate reproducible research. R Studio in particular continues to get easier to use, and other software has developed markdown capabilities.

What do you think is the most important challenge for the future of biostatistics? I think it still gets back to a garbage in, garbage out, back to the quality of the data. A lot of data is now openly available and doing research on the web is easily accessible to everybody.

If you didn't pursue this field, what would have been your alternative career? I probably would have stayed in nutrition and dietetics teaching, because I still think that the limitations of evidence-based research are something that's not understood well in a lot of disciplines.

Want to be featured in the next member profile? We are always in need of more member profiles. It's a great way to get some exposure to our >500 readers. If interested, please let [Alberto Nettel-Aguire](#) or [Nicola Armstrong](#) know.



Podcasts & Blogs

Casual inference
In this regular **podcast** sponsored by the American Journal of Epidemiology, Dr Lucy D'Agostino McGowan and Dr Ellie Murray dive into the world of causal inference and its intersection with epidemiology, statistics, and data science.

Prognosis Research
Developed by Professor Richard Riley and Dr Kym Snell (Keele University), this **website** aims to improve practices in prediction modelling aimed at applications in healthcare.

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 [Kyle-Ann Mallitt](#) with the details.

Featured articles

Beyond Calculations: A Course in Statistical Thinking
E. Ashley Steel, Martin Liermann & Peter Guttorp (2019) Beyond Calculations: A Course in Statistical Thinking, *The American Statistician*, 73(sup1), 392-401

In this paper the authors hone in the importance of statistical thinking as a whole more than, as sometimes seen by many who use and teach statistics, a set of algorithms yielding p-values.

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, please contact [Nicola Armstrong](#) with the details.

Closing comments

Our Section is interested in biostatistics and bioinformatics with you are committed to assisting you with your career in these fields. We are interested in hearing from our members, especially regarding ideas for events, presentations, and/or workshops.

We hope all our members stay safe an well through the rest of 2022. If your colleagues would like to receive this newsletter, they can sign up via [mailchimp](#). To view previous newsletters please see our [section's webpage](#).

Social media

We encourage all our members to follow our activities on our social media account links below. We actively promote upcoming events, job opportunities and relevant material.

