

## **SSA Biostatistics & Bioinformatics** Newsletter

Q4 2019



This is our last update of 2019. We aim to keep you updated about our activities of this quarter and highlight the topics that may be of interest to you.

In this newsletter, we are excited to introduce you to our new bioinformatics committee member Gavriel Olshansky and update you about the biostatistics and bioinformatics section mentoring program pilot. In addition, our newsletter contains upcoming

events, meeting one of the members in our mailing list, and much more... Thanks to everyone who has supported our Section in 2019. We wish you happy holidays and look forward to hearing from you 2020!

Changes in the SSA Biostatistics and Bioinformatics section

The SSA Biostatistics and Bioinformatics section committee

analysis of large scale lipidomic studies, with interests in normalisation and visualisation of high dimensional data. He will be working closely with Alysha and the rest of the committee to increase engagement with bioinformaticians within the field.

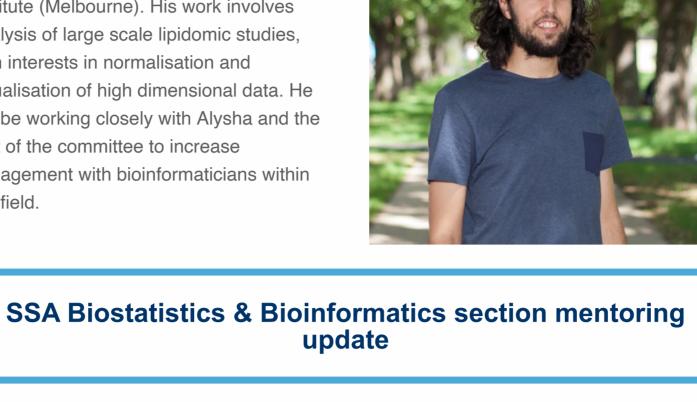
Introducing our newest member of our

Bioinformatician at the Metabolomics

laboratory, Baker heart and Diabetes

institute (Melbourne). His work involves

committee, Gavriel Olshansky. Gavriel is a





Once we have created our pairs, we will be in touch with applicants to let them know who their mentor or mentee is. Please keep an eye on your emails as we will be in contact within the next couple of weeks. Apologies to anyone who will miss out on the opportunity to take part this year but please be assured that we will keep your details on hand should the program run in 2021. Thanks again to all interested parties. If anyone has any questions about the program, please do not hesitate to contact our coordinator Karen Lamb (klamb@unimelb.edu.au).

accommodating those who wish to meet a mentor or mentee in person, but we will do our

Our Biostatistics and Bioinformatics

**B&B End of Year Networking events** 

### and South Australia. We hoped you all enjoyed the night and were able to meet

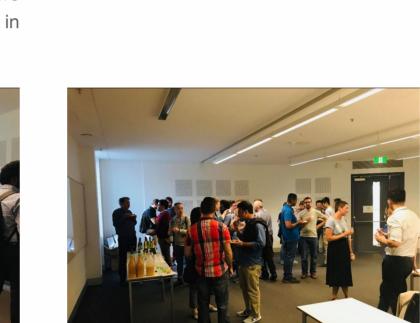
old colleagues as well as make new friends. Here are a few pictures from the night. We hope to bring you more successful events (and in more states) in 2020.

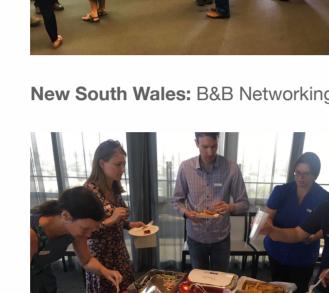
section have teamed up with SSA state

branches to hold end of year networking

events in New South Wales, Queensland

best to accommodate in the matching!

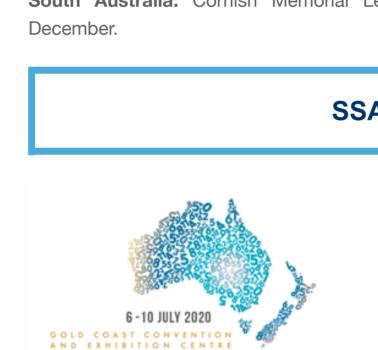






Queensland: End-of-year social trivia event held in December.





MODELLING DATA FOR A BRIGHTER FUTURE

about this conference.

place in 2020. These include:

**ViCBiostat Summer School** 

(to be announced)

Melbourne, Australia, February 2020

Padova, Italy, 10th-13th May 2020

**30th International Biometric Conference** 

Montreal, Canada, 12th-16th July 2020

Gold Coast, Australia, 6th-10th July 2020

Intelligent Systems for Molecular Biology (ISMB)

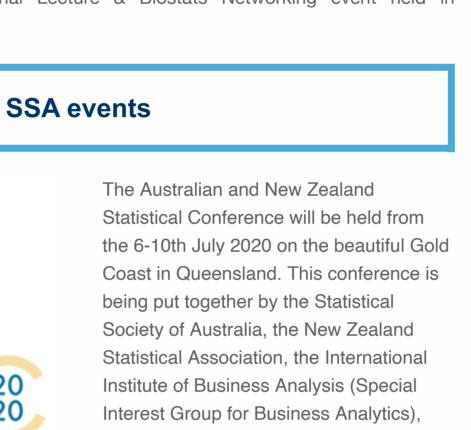
**Australian and New Zealand Statistical Conference** 

Seoul, Korea, 5th-10th July 2020

design

**Dynamic Treatment Regimens and SMART** 

Melbourne, Australia, 10th February 2020



and the Australian Conference on

Teaching Statistics.

If you are keen to be involved in the conference, abstract submissions are now open. Early bird registration is also available until 27th March 2020. We look forward to meeting you at the conference. Other upcoming events

There are a range of events of interest for biostatisticians and bioinformaticians taking

The conference aims to bring together a broad range of researchers and practitioners

across a variety of statistical disciplines to facilitate the exchange of theory, methods and

application. There will be an exciting range of workshops, presentations and social

events. Over the coming newsletters, we will keep you up-to-date with announcements

**Pacific Symposium on Biocomputing, 2020** The Big Island of Hawaii, 3rd-7th January 2020

24th International Conference on Research in Computational Molecular Biology

**International Conference on Statistical Genetics and Biostatistics** 

## Vienna, Austria, 18th-19th June 2020 7th International Statistical Ecology Conference Sydney, Australia, 22th-26th June 2020

Krakow, Poland 23th-27th Aug 2020 Women in Australian Mathematical and Statistical Sciences (WIMSIG) Melbourne, Australia, 1st-2nd October 2020

twins, siblings and half-siblings is used to compare groups in matched cohort and matched case-control studies. This is because, the "within-pair" estimates

acquired through these comparisons are

free from confounding from all factors that

are shared by the siblings. However, these

designs are not free from bias.

and Measurement Error. In epidemiological research, data from

41st Annual Conference of International Society for Clinical Biostatistics

If you would like to advertise any upcoming biostatistics or bioinformatics events to our

**Featured articles** 

Sibling Comparison Designs: Bias From Non-Shared Confounders

As the authors note in their paper if the time gap between siblings is longer, then they are

likely to be less similar with regard to observed confounders and this leads to biased

estimate of within-pair estimate than the simple unpaired estimate. Additionally, Frisell et al

show that the within-pair estimate can be biased if the exposure is misclassified or has

measurement error, even in the absence of confounding. This article can be accessed from

Are you aware of a recently published article that may be of interest to our biostatistics and

Meet our mailing list

the following website. it is not open access. However, this can be accessed online.

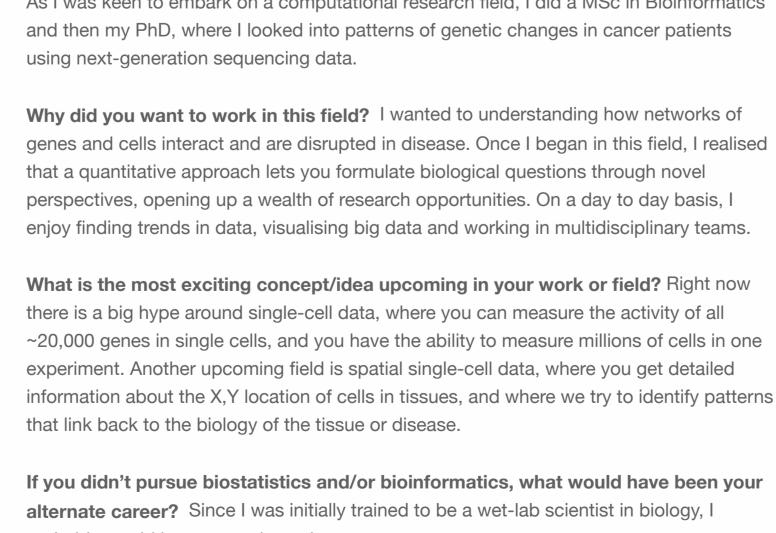
bioinformatics members? Please do not hesitate to let Murthy Mittinty know.

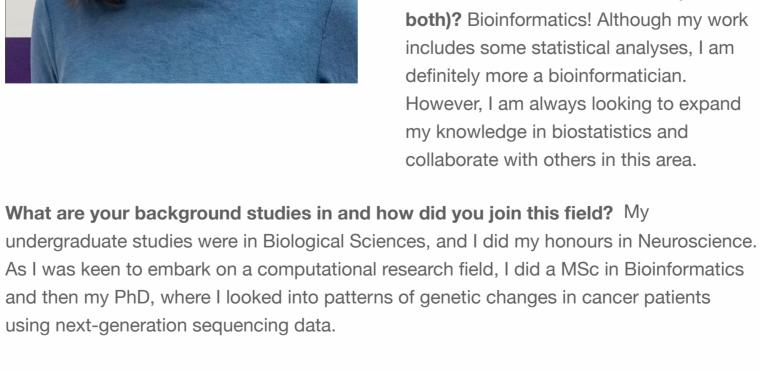
mailing list, please contact one of our co-Chairs, Sabine Braat or Jaimi Greenslade

### Where do you currently work? I am a postdoctoral researcher at the Peter MacCallum Cancer Centre. I am based in the Computational Biology program, but I collaborate widely with medical

Name: Anna Trigos

across the institute.





oncologist and wet-lab researchers

What field do you associate with,

biostatistics or bioinformatics (or

If you didn't pursue biostatistics and/or bioinformatics, what would have been your alternate career? Since I was initially trained to be a wet-lab scientist in biology, I probably would have gone down that route. Want to be featured in the next member profile? Please let Nicole De La Mata know.

**Closing comments** Our Section Committee is interested in biostatistics and bioinformatics and we

# hearing from our members, especially regarding ideas for future events,

presentations, webinars or workshops held by the SSA Biostatistics & Bioinformatics section. We are interested in hearing about our members and how they became involved in biostatistics or bioinformatics. regarding these or any other related queries. 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**.

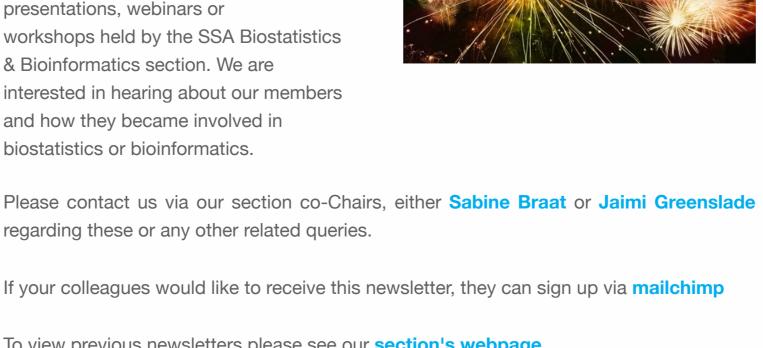
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are committed to assisting you with your

bioinformatics. We are interested in

career in biostatistics or/and



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