Kevin YX Wang

Statistician and Data Scientist

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Passionate data scientist with a PhD in statistics and a proven track record of delivering valuable analytical insights. I am a highly effective communicator with numerous awards for research presentations and worked as a part-time lecturer at the University of Sydney. I am highly skilled in developing machine learning predictive models using the R language.

Education

2016–2019   **Doctor of Philosophy in Science**, *University of Sydney*.
- Research in statistics and bioinformatics.
- The PhD thesis mainly develops methods to enable prediction of patient clinical outcomes using genomics data under a rigorous statistical framework.

2012-2015   **Bachelor of Science (Adv. Mathematics) (Hon. I)**, *University of Sydney*.
- Major in statistics and financial mathematics.
- The Honours thesis examines the effect of different measures of association in human brain connectivity modelling utilising functional MRI data.

Experience

2019–2020   **Research Associate**, *University of Sydney*.
- Developed a clinically implementable prediction model using genomics data.
- Provided analytical insights about genomics data to clinicians and biologists.
- Developed and maintained open-sourced R software packages.
- Designed and hosted cloud-based workshops.

2016–2019   **Postgraduate Teaching Fellow**, *University of Sydney*.
- Authored lecturing materials for courses at both undergraduate and postgraduate level with strong positive student feedback.
- Delivered lectures (200+ students) and tutorials, covering 15 different courses, including statistics, mathematics and data science.
- Mentored and trained new statistics tutors.

Skills

Technical

R   Highly proficient in writing research level scripts. Professional in using `tidyverse` and `shiny`. Author of the `scMerge` Bioconductor package as well as the `APES` and `mcvis` packages.

Applied statistics   Highly experienced at the research level. Specialisation in regression-type problems. Publications in top journals, including *Bioinformatics*, *Clinical Cancer Research* and *PNAS*.

`git`	Highly proficient. Experiences in `R` package development with unit testing, continuous integration and coverage testing.
`docker`	Proficient in building docker images and deployment through Google Cloud.
`python`	Working knowledge in writing basic scripts. Released the `mcvispy` package.

Communication

Consulting	I have collaborated with researchers from different scientific fields and provided important analytical insights. These work eventually lead to publications in peer-reviewed journals.
Workshop	I have designed and delivered workshops for both industry and academic professionals on statistics and `R`. These workshops are about $30+$ attendees in size and I received an Google Cloud for Education grant worth of 2,000 AUD.
Mentoring	I have mentored and trained statistics tutors at USYD and supervised an overseas student on a statistics project.

Volunteering

2016-Present **Outreach volunteer**, *University of Sydney*.
- Deliverying seminars and hands-on workshops for high school and university students.
- Previously a board member of the School Outreach committee.

2017 **President**, *Sydney University Mathematics Society*.
- Oversee finances of the Society and negotiating coporate sponsorships.
- Organising speakers for industry and academic seminars and social events.
- Management of social media accounts, operations and sales of merchanise.

2014-2015 **President**, *Sydney University Statistics Society*.
- Established the Statistics Society in 2014. Responsible for all social and career events during 2015, including an industry workshop with SAS.

Internships

2016 **Charles Perkins Centre Summer Research Scholarship in Bioinformatics**, *University of Sydney*.
- *A Shiny implementation for differential variability analysis via a network approach*. Supervised by Prof. Jean Yang and Prof. Graham Mann.

2015 **Summer Research Scholarship in Mathematical Statistics**, *Australian National University*.
- *Frequentist model selection and model averaging techniques*. Supervised by Prof. Alan Welsh.

2013 **Winston Charitable Foundation Internship in Mathematical Biology**, *University of Sydney*.
- *Spread of the Varroa Mite among different castes of honey bee hives*. Supervised by Prof. Mary R Myerscough.

Honours and Awards

2019 **Statistical Society of Australia**, *JB Douglas Award (runner-up). State-wide postgraduate student research presentation competition. AUD 250.*

2019 **Statistical Society of Australia**, *Golden Jubilee Travel Grant. Funding for international conference attendance in 2019. AUD 1,000.*

2018 **Sydney Bioinformatics Research Symposium**, *Best poster presentation. AUD 50.*

2017 **International Biometric Society - Australasian Region**, *Best student talk. AUD 500.*

2017 & 2018 **Australian Bioinformatics & Computational Biology Society**, *Travel scholarship to ABACBS annual conference. AUD 250.*

2016-2019 **Australian Postgraduate Award**, *For the duration of PhD program at the University of Sydney. AUD 26,288 p.a.*

2015 **International Biometric Society - Australasian Region**, *Honours Scholarship for biostatistics students. AUD 1,500.*