

# Kevin Wang PhD

*Data Scientist and Statistician*

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Nationality: Australian

## Experience

- 2020–Now **Statistician (data scientist)**, *CSL Behring*, Melbourne, Australia.
- Establishing new machine learning models and biostatistical protocols to address business challenges.
  - Liaising with internal clients to solve practical challenges using statistical analysis and to support implementation.
  - Providing statistical consultation services to guarantee high pharmaceutical production quality.
- 2019–2020 **Research Associate**, *University of Sydney*.
- Developed a clinically implementable prediction model using genomics data with a team of 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*.
- Worked within a teaching team to author 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.

## Education

- 2016–2020 **Doctor of Philosophy in Science**, *University of Sydney*.
- Research in statistics and bioinformatics.
  - The PhD thesis develops methods to enable prediction of patient clinical outcomes using omics data under a rigorous statistical framework.
  - Published peer-reviewed articles with collaborators, covering a wide range of cancers, diseases and statistical topics.
- 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.

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## Skills

Applied statistics	Highly experienced at the research level and consulting level. Specialisation in inferential and predictive modelling.
R & git	Highly proficient in scripting, tidyverse, shiny and package development with unit testing, continuous integration and coverage testing. Author and maintainer of three open-source R packages.
python & SQL	Proficient in writing scripts and notebooks.
docker & Google Cloud	Proficient in building docker images and deployment through Google Cloud.

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## Volunteering

- 2021 **Communication officer**, *Statistical Society of Australia, Victorian branch*.  
Managing communications and organising events for the society.
- 2016-2019 **Outreach volunteer**, *University of Sydney*.  
Delivered seminars and hands-on workshops for visiting high school and university students.
- 2017 **President**, *Sydney University Mathematics Society*.  
Oversaw finances of the Society, organised academic/industry events and and negotiated corporate sponsorships for three years.
- 2015 **President**, *Sydney University Statistics Society*.  
Organised academic/industry events and and negotiating corporate sponsorships.

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## Scholarships & Awards

- 2019 **Statistical Society of Australia**, *JB Douglas Award (joint runner-up). Prize awarded to the top statistics research PhD candidates in New South Wales. AUD 250.*
- 2019 **Statistical Society of Australia**, *Golden Jubilee Travel Grant. Competitive funding for a statistics PhD candidate in Australia. AUD 1,000.*
- 2018 **Sydney Bioinformatics Research Symposium**, *Best poster presentation at the conference. AUD 50.*
- 2017 **International Biometric Society - Australasian Region**, *Best student talk at the conference. AUD 500.*
- 2017 & 2018 **Australian Bioinformatics & Computational Biology Society**, *Travel scholarship to ABACBS annual conference. AUD 250.*
- 2016-2020 **Australian Postgraduate Award**, *For the duration of PhD program at the University of Sydney. AUD 26,288 p.a.*
- 2016 **Summer Research Scholar in Bioinformatics**, *Charles Perkins Centre*.  
Research in data visualisation, focus on gene interaction networks for cancers. AUD 2,400.
- 2015 **International Biometric Society - Australasian Region**, *Awarded to the top biostatistics student undertaking a Honours program. AUD 1,500.*
- 2015 **Summer Research Scholar in Mathematical Statistics**, *Australian National University*.  
Research in statistics, particularly on model selection and averaging techniques. AUD 3,000.
- 2013 **Research Internship in Mathematical Biology**, *Winston Charitable Foundation*.  
Research in mathematical modelling in the spread of infectious parasites in beehives. AUD 2,000.