

Kevin Wang Ph.D.

Data Scientist and Statistician

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Experience

Now **Senior Data Scientist, Illumina**

2021 Nov In this role, I have navigated my projects to meet critical multi-million milestone payments, showcasing adeptness in technical skills, team leadership and stakeholder/project management. Some activities include:

- Leading the creation of comprehensive bioinformatics strategies for 3 pioneering IVD cancer companion diagnostic products.
- Deploying innovative machine learning tools and production-grade software for the applications in large scale genomics data.
- Drive project success by collaborating with interdisciplinary teams of expert, including internal R&D scientists, software developers, regulatory bodies and external pharmaceutical partners.

2021 Oct **Statistician, CSL Behring**

- 2020 Jul
- Used statistical process control techniques to standardise manufacturing and quality laboratory procedures with engineers and biochemists.
 - Designing experiments and using innovative machine learning models and R-Shiny dashboards to understand the chemical stability of products, conform to regulatory requirements and ensure product effectiveness.
 - Contributed towards high-value products like the COVID vaccines and treatments, achieved savings of multiple product batches, with some batches valued up to \$1M.

2020 Jun **Research Associate, University of Sydney**

- 2019 Sep
- Developed and validated an interpretable machine learning framework for predicting cancer patient clinical outcome using omics data.
 - Published peer-reviewed articles in top-tier journals (e.g. PNAS, Nature Digital Medicine) together with reproducible software.

2019 Mar **Postgraduate Teaching Fellow, University of Sydney**

- 2016 Mar
- Delivered lectures (200+ students) and tutorials covering 15 different courses. Authored and improved existing course content.
 - Mentored and trained junior statistics tutors.

Education

2016–2020 **Doctor of Philosophy in Statistical Bioinformatics, University of Sydney**

Thesis: A Statistical Framework for Incorporating Multi-Omics Technologies for Precision Medicine

2012-2015 **Bachelor of Science (Adv. Mathematics) (Hon. I), University of Sydney**

Thesis: Examination of Appropriate Measures of Association in Resting-state fMRI Datasets

Miscellaneous

Skills python, R, applied statistics, bioinformatics, statistical modelling, machine learning, CI/CD, docker, software development and product development.

Volunteering Assistant Secretary in the Statistical Society of Australia (NSW branch 2023) and the Communication Officers (NSW branch 2022, Victorian branch 2021). Organised paid events, workshops and social media management.

Scholarships JB Douglas Award (2019) from Statistical Society of Australia NSW. Golden Jubilee Travel Grant (2019) from Statistical Society of Australia. Best Student Talk from International Biometric Society - Australasian Region. Australian Postgraduate Award (2016-2020) from the University of Sydney.