

Kevin Wang Ph.D.

Data Scientist and Statistician

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🌐 Portfolio: kevinwangstats.com

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.