Kevin YX Wang

Curriculum Vitae

Education

2016–Present **Doctor of Philosophy in Science**, *University of Sydney*.
Identifying highly sensitive disease biomarkers for personalised medicine through novel statistical bioinformatics solutions. Supervised by Prof. Jean Yang, Prof. Samuel Müller and Dr. Garth Tarr.

2012-2015 **Bachelor of Science (Adv. Mathematics) (Hon. I)**, *University of Sydney*.
Major in Statistics and Financial Mathematics.
Honours thesis: Biostatistics - Examination of appropriate measures of association to resting-state fMRI data. Supervised by Prof. Jean Yang and Dr. John Ormerod.

Professional Experiences

2016–Present **Postgraduate Teaching Fellow**, *University of Sydney*.
- Lecturer for MATH1005/1015, STAT3914/5002/5003.
- Key responsibilities: writing engaging and informative lecturing materials for courses at all undergraduate and postgraduate level; writing assessments; performing administrative tasks; providing consultation time for students and mentoring new tutors.
- Tutored 12 courses spanning across Pharmacy, Mathematics, Statistics and Machine Learning at undergraduatea and postgraduate level with strong positive student feedbacks.

2013-2017 **Society President**, *Sydney University Mathematics Society*.
- Key responsibilities:
  - Oversee finances of the Society and negotiating coporate sponsorships.
  - Facilitating speakers for career and academic seminars.
  - Collaborations with other societies and organisations on social events.
  - Management of social media accounts, operations and sales.
- Hosting mathematical workshops and outreach activities relating Mathematics and Statistics for the Society and the University. Promoting mathematics to students with disadvantaged backgrounds.
- Previous positions held: Vice President, Treasurer and Social Director.

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

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Updated on March 30, 2018

2015	**Summer Research Scholarship in Mathematical Statistics**, *Australian National University*.
	○ Research topic: Frequentist Model Selection and Model Averaging techniques.
	○ Supervised by Prof. Alan Welsh.
	○ Participated in 3 Minutes Thesis competition in Burgmann College, ANU.
2014-2015	**Society President**, *Sydney University Statistics Society*.
	○ Re-establishing the Statistics Society within the University of Sydney Union in 2014.
	○ Responsible for registration and redrafting of the Constitution. Responsible for all social and career events during 2015.
	○ April 2015: organising introductory SAS software workshop.
2013	**Winston Charitable Foundation Internship in Mathematical Biology**, *University of Sydney*.
	○ Project name: Spread of the Varroa Mite among different castes of the honey bee hive.
	○ Supervised by Prof. Mary R Myerscough, University of Sydney.

Honours and Awards

2016-Present	**Australian Postgraduate Award**, *For duration of the PhD program at the University of Sydney. Valued at AUD 26,288 p.a.*
2017	**International Biometric Society in Australasian Region**, *Best student talk at IBS-AR Conference. Valued at AUD 500.*
2017	**Australian Bioinformatics & Computational Biology Society**, *Travel scholarship to ABACBS annual conference. Valued at AUD 250.*
2015	**International Biometric Society in Australasian Region**, *Honours Scholarship for biostatistics students. Valued at AUD 1,500.*

Publication

bcGST - an interactive bias-correction method to identify over-represented gene-sets in boutique arrays. Kevin YX Wang, et. al. 2018, bioRxiv 240234; doi: 10.1101/240234

Computational skills

R	Fluent in writing research level scripts, including Rmarkdown and Shiny. Basic experience in developing packages. Designed and delivered workshops for students and industry professionals.
LaTeX	Expert. Written extensive university materials using LaTeX. Designed and delivered workshop for undergraduates.
Mathematica	Working knowledge. Used it to assist research and teaching at the University level.
MATLAB/Julia	Working knowledge.

Miscellaneous

Professional Society Memberships

- Statistical Society of Australia
- International Biometric Society (Australasian Region)
- Royal Statistical Society
- Australian Bioinformatics & Computational Biology Society

Attended Conferences

- AMSI BioInfo Summer (2015)
- Sydney Bioinformatics Research Symposium (2016)
- Sydney Cancer Conference (2016)
- Aust. Bioinformatics & Computational Biology Society Conference (2016, 2017 poster)
- Australian Statistical Conference (2016 presentation)
- International Conference in Robust Statistics (2017 presentation)
- European Molecular Biology Laboratory PhD Course (2017)
- International Biometrics Society - Australasian Region (2017 best student presentation)