

Logan Z. J. Williams

Curriculum Vitae

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📄 <https://lzjwilliams.github.io/>

Education

- 2020– **Doctor of Philosophy, PhD**, King's College London, *United Kingdom*.
Biomedical Engineering and Imaging Science
- 2014–2019 **Bachelor of Medicine and Bachelor of Surgery, MBChB**, The University of Auckland, *New Zealand*.
Graduated as [senior scholar](#)
- 2016–2017 **Bachelor of Medical Science (First-Class Honours)**, *BMedSc(Hons)*, The University of Auckland, *New Zealand*.
Department of Paediatrics & Child Health
- 2011–2014 **Bachelor of Biomedical Science, BSc**, The University of Auckland, *New Zealand*.
Specialised in neuroscience

Doctoral Thesis

- Title *Imaging the genetic influences of cognition and neuropsychiatric disorders across the lifespan*
- Supervisors [Dr. Emma Robinson](#) & [Professor David Edwards](#)
- Description The aim of my doctoral thesis is to understand genetic factors that contribute to neuropsychiatric disorders. The project utilizes large scale, multi-modal magnetic resonance imaging and genomic data from the UK Biobank and Developing Human Connectome Project.

Honours Thesis

- Title *Intermittent hypoxaemia in infants born late preterm*
- Supervisors [Dr. Jane Alsweiler](#) & [Dr. David McNamara](#)
- Description This thesis examined the frequency of intermittent hypoxaemic events in babies born between 34–36 weeks' gestational age compared to those born at term, using overnight pulse oximetry.

Publications

Williams, L. Z. J., & Grainger, R. (2020). Discussion paper: Social accountability for students in a machine learning era. *Focus on Health Professional Education: A Multi-disciplinary Journal*, 21(1), 114. <http://dx.doi.org/10.11157/fohpe.v21i1.363>

- Williams, L.**, l'Anson, J., Malarkey, M., Purcell, A., de Vries, N., & McKinlay, C. (2020). Information sharing in neonatal intensive care: Parental perceptions and preferences. *Journal of Paediatrics and Child Health*. <https://doi.org/10.1111/jpc.14842>
- Richards, G.C., Bradley, S.H., Dagens, A.B., Hasse, C.B., Kahan, B.C., Rombey, T., Wayant, C., **Williams, L.Z.J.** & Gill, P.J. (2019). Challenges facing early- and mid-career researchers: potential solutions to safeguard the future of evidence-based medicine. *BMJ Evidence-Based Medicine*. <http://dx.doi.org/10.1136/bmjebm-2019-111273>
- Williams L.Z.J.** (2019). Repurposing a rare opportunity: a brief insight into how implicit bias towards biomedicine impacts the care received by patients with a rare illness. *Orphanet journal of rare disease*, 14(1):53. <https://doi.org/10.1186/s13023-019-1024-6>
- Williams, L.Z.J.**, McNamara, D., & Alsweiler, J.M. (2018). Intermittent hypoxemia in infants born late preterm: a prospective cohort observational study. *The journal of paediatrics*. <https://doi.org/10.1016/j.jpeds.2018.08.048>
- Shen, X, Kaur, S, Power, A, **Williams, L.Z.J.**, & Ward, ML (2016). Positive inotropic effect of prostaglandin F2 α in rat ventricular trabeculae. *Journal of cardiovascular pharmacology*, 68(1), 81-88. <https://doi.org/10.1097/FJC.0000000000000392>

Conference Presentations

- Williams, L.Z.J.**, l'Anson, J, Malarkey, M, Purcell, A, Brougham, N, de Vries, N, & McKinlay, C. Parents prefer a mixture of electronic and printed health information. 23rd Annual Congress of the Perinatal Society of Australia and New Zealand, Gold Coast. 2019
- Williams, L.Z.J.**, McNamara, D, & Alsweiler, J.M. Oxygen saturation trends in late preterm infants. 2nd Annual Congress of the joint European Neonatal Societies, Venice. 2017
- Williams, L.Z.J.**, Taylor, J, & Alsweiler, J.M. Intermittent hypoxaemia and neurodevelopmental outcomes in extremely preterm infants with bronchopulmonary dysplasia. 37th Annual Scientific Meeting of the Perinatal Society of New Zealand, Wellington. 2017
- Williams, L.Z.J.**, McNamara, D, & Alsweiler, JM. (2017). Intermittent hypoxaemia in infants born late preterm. 21st Annual Congress of the Perinatal Society of Australia and New Zealand, Canberra. 2017.

Experience

Vocational

- 11/2019–
02/2020 **Foundation Year 1 Doctor**, *Middlemore Hospital*, South Auckland, New Zealand.
Completed rotation in obstetrics & gynaecology

Miscellaneous

- 2014–2017 **Anatomical dissection**, *Faculty of Medical and Health Sciences*, Auckland, New Zealand.
Responsible for developing anatomical specimens for undergraduate medical teaching

Awards

- 2020 Wellcome Genome Campus Advanced Course Bursary
- 2019 Commonwealth PhD Scholarship
- Senior Scholar Award
- MBChB VI: Rotary Club of Auckland Prize for the Most Distinguished Medical Graduate of the Year
- MBChB VI: Dean's Medal
- MBChB VI: David Scott Prize in Diabetes and Metabolic Medicine
- Royal Society for Medicine Psychiatry Section: Students and Trainees Award (2nd place)
- Centre for Evidence-based Medicine: Doug Altman Scholarship
- 2018 MBChB V: WW Phillipps Award in Medicine
- MBChB V: Population Health Prize (Academic)
- Australasian Faculty of Public Health Medicine: John Snow Scholarship
- Findacure Student Voice Essay Competition: 1st place overall
- 2017 MBChB IV: First in Course
- 2016 John Hamel MacGregor Award in Medical Science
- 2015 The University of Auckland Summer Research Scholarship
- 2014 MBChB II: Kingsley Mortimer Memorial Prize
- 2013 The University of Auckland Summer Research Scholarship
- 2011 The University of Auckland Jubilee Award - Tier 3

Teaching

- 2020 Teaching Assistant: BEng 6CCYB064 Machine Learning for Healthcare Applications
- 2015,2016 Laboratory Demonstrator: MBChB 221 A&B Microanatomy
- 2014–2016 Laboratory Demonstrator: MEDSCI 142 Biology for Biomedical Science: Human Organ Systems
- 2013,2016 Laboratory Demonstrator: MBChB 221 A&B Human Anatomy