

## Jamin Wu

---

Website: <https://wjmn.github.io>  
GitHub: <https://github.com/wjmn>

- OBJECTIVE** I am interested in clinical medicine and computer science. I am particularly interested in how type systems can be used to model domain logic and how this might be applied to programs used in the medical setting.
- EDUCATION**
- Bachelor of Medical Science and Doctor of Medicine** 2015-curr.  
*Monash University*  
Semester at Karolinska Institutet, Sweden (Exchange 2018)  
WAM (current): 85, InternZ Score: 5.4
- Bachelor of Medical Science (Honours)** 2019  
*Monash University* — Department of Physiology, and  
Department of Electrical & Computer Systems Engineering  
Supervised by Dr Yan Wong & Dr Nicholas Price  
Minor thesis titled *Generative Adversarial Networks for Simulated Prosthetic Vision*
- Western Australia Certificate of Education** 2010-2014  
*Perth Modern School*  
ATAR: 99.95
- EXPERIENCE**
- School of Biomedical Sciences, Monash University** 2018  
Summer Research Scholarship, supervised by Prof Paul McMenamin (Department of Anatomy and Developmental Biology).
  - Project on dissection of head and neck specimens.
  - Applied anatomy knowledge and dissecting skills to produce presentable specimens.
- School of Biomedical Sciences, Monash University** 2018  
Winter Research Scholarship, supervised by Dr Lan Nguyen (Department of Biochemistry and Molecular Biology).
  - Project on a web interface for producing survival analyses of open-access cancer data.
  - Usage of Python (Flask) and JavaScript (React) to produce a web app hosted on a university server.
- School of Mathematical Sciences, Monash University** 2017  
Summer Research Scholarship, supervised by Prof Hans de Sterck and Prof Hans Elmlund.
  - Project on automated particle picking for cryo-EM.
  - Usage of Fortran for writing image processing routines within existing codebase.
- School of Psychological Sciences, Monash University** 2016-2017  
Summer Research Scholarship, supervised by A/Prof Naotsugu Tsuchiya.
  - Project on incidental memory in rapid series visual presentation.
  - Project on integrated information theory in relation to ECoG data.
  - Usage of Matlab, Python and R for data analysis and visualisation.
  - Presentation of results and data using Jupyter Notebooks and org-babel.

## AWARDS

**Grand Prize Winner** of the 2019 APL Problem Solving Competition (Dyalog) 2019  
Received 2500 USD in recognition of solutions written in the APL programming language for a range of programming problems.

**Silver Certificate** in MUMUS Physiology Competition (MUMUS) 2016  
2nd place in medical student-run physiology competition.

**Year 1 Faculty Prize** (FMNHS, Monash University) 2016  
Awarded to top two students based on Year 1 results in the MBBS cohort.

**Academic Scholarship** (Monash University) 2015-18  
Monash Scholarship for Exceptional Achievement 2015  
Summer Research Scholarship (School of Psychological Sciences) 2016  
Monash Global Grant 2017  
Summer Research Scholarship (School of Mathematical Sciences) 2017  
Winter Research Scholarship (School of Biomedical Sciences) 2018  
Summer Research Scholarship (School of Biomedical Sciences) 2018

**Beazley Medal** (SCSA, Government of Western Australia) 2015  
Awarded for highest aggregate Year 12 results in Western Australia.

**Cert. of Distinction** (School Curriculum and Standards Authority) 2015  
in Mathematics, Physics, Chemistry and Japanese  
Awarded for achieving in top 0.5% of students in course.

**Dux** (Perth Modern School) 2014  
Awarded for highest aggregate Year 12 results in school.

**Australian Chemistry Summer School** (Australian Science Innovations) 2013  
Selection based on outstanding achievement in National Qualifying Exam.

## SKILLS

Experience using **Python** for general programming, writing backend servers, data science and machine learning tasks on vacation-scholarship or full-year research projects. Extensive usage of numpy, scipy, matplotlib, Jupyter, flask, django, tensorflow and keras.

Experience using **Matlab**, **R** and **Fortran** for numerical and statistical tasks during vacation projects.

Experience using **JavaScript** (with React) and **Elm** for frontend development, and have independently written full-stack applications consisting of a client-side single-page application and a REST backend.

Experience using **APL**, **J** and **Haskell** for hobby programming tasks.

Well-acquainted with Git and GitHub, bash, and LaTeX.

<b>EXTRA- CURRICULAR</b>	Revision Lecturer (Treatments in Psychiatry) for Year 4 medical students	2019
	Revision Lecturer (Neurology) for Year 3 medical students	2018
	Momentum Mentor (for junior medical students)	2018-2019
	Volunteer software developer for Code Stroke Alert	2018
	Violinist in Strokett (chamber string group at Karolinska Institutet)	2018
	Violinist in Monash Medical Orchestra	2015-2019

**PUBLICATIONS** Seah, H., Burney, M., Phan, M., Shell, D., **Wu, J.**, Zhou, K., Brooks, O., Coulton, B., Maingard, J., Tang, J., Yazdabadi, G., Tahayori, B., Barras, C., Kok, H., Chandra, R., Thijs, V., Brooks, D. and Asadi, H. (2019). CODE STROKE ALERT—Concept and Development of a Novel Open-Source Platform to Streamline Acute Stroke Management. *Frontiers in Neurology*, 10.

Matthews, J., **Wu, J.**, Corneille, V., Hohwy, J., van Boxtel, J. and Tsuchiya, N. (2018). Sustained conscious access to incidental memories in RSVP. *Attention, Perception, Psychophysics*, 81(1), pp.188-204.