**Yann Chye**

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**PROFILE**

Postdoctoral Researcher with 6 years of experience in addiction research, and specific expertise in mining high volume of brain imaging (MRI) datasets to uncover key brain biomarkers. In addition to neuroimaging software (i.e. FreeSurfer, SPM, FSL), I am also familiar with a range of front- and back-end tools and statistical software. Proven aptitude in research data management and statistical computing methods, as demonstrable by my research output; and a history of success collaborating across global groups and management of research project deliverables. I am a committed and self-motivated learner who enjoys problem-solving and extracting valuable insights through detailed data analysis.

**KEY COMPETENCIES**

* **Technical -** Research data management, Statistical computing methods, Quantitative analytics, Data visualisation
* **Project Management -** Strategic project planning, Management of project evolution and deliverables
* **Interpersonal -** Establishing and maintaining collaborative relationships
* **Tools/Languages -** Python, Matlab, R, SPSS, MS Suite, SQL, Tableau, HTML/CSS, JavaScript

**KEY PROJECTS**

**ENIGMA Addiction Project |** <https://onlinelibrary.wiley.com/doi/abs/10.1111/adb.12830>

* Research project pooling together multinational brain imaging datasets to examine fine-grained brain changes associated with substance addiction
* Full-text available upon request

**Cannabis Multisite Study |** <https://onlinelibrary.wiley.com/doi/abs/10.1111/adb.12652>

* Research project pooling together brain imaging datasets on cannabis users to understand cannabis use-related moderators of brain and behavioural effects

**World Demographics |** <https://world-demographics.herokuapp.com>

* Built a visualisation dashboard to explore changing world demographics over the past few decades
* Python, Pandas, SQLalchemy, Flask, HTML/CSS, Javascript

**PROFESSIONAL EXPERIENCE**

**Postdoctoral Research Fellow**  2018 – current

Turner Institute for Brain and Mental Health, Monash University

**Responsibilities**

* Undertake quantitative research - including sophisticated data cleaning, processing, and statistical analysis - related to brain, cognition, and mental health in substance use
* Project coordination and development
* Staff and research student supervision
* Recruit and liaise with vulnerable individuals
* Design and deliver educational content/lectures in Psychology and Neuroscience units

**Research Assistant** 2016 – 2017

Medicine, Nursing and Health Sciences Education Portfolio, Monash University

**Responsibilities**

* Undertook a literature review for the Undergraduate Medicine and Health Sciences Admission Test (UMAT) tender process
* Prepared a comprehensive report for key stakeholders that will advise on evidence-based guidelines for the applicability of the UMAT

**EDUCATION**

**Data Analytics Bootcamp**, Monash University

2020

**Doctor of Philosophy (PhD),** Monash University

Thesis – Brain Alterations in Regular Cannabis Users: A Cannabis Multisite MRI Study

2015-2019

**Postgraduate Diploma in Psychology**, The University of Melbourne

2014

**Graduate Diploma in Psychology**, The University of Melbourne

2013

**Bachelor of Biomedicine (Neuroscience)**, The University of Melbourne

2010-2012

**PROFESSIONAL DEVELOPMENT AND SERVICE**

**Publications**

In the past **4** years, I have co-authored **19** peer-reviewed journal publications (8 first author), demonstrating **competency in research, analysis, and writing** skills. Full list of publications can be found at my profile on

ResearchGate (<https://www.researchgate.net/profile/Yann_Chye>) or

GoogleScholar (<https://tinyurl.com/yannchye>)

**Outreach/Workshops**

**3rd University of Wollongong (UOW) magnetic resonance imaging (MRI) workshop**

Invited to give a 2-day workshop on brain imaging technique and analysis method

2019

**Methodist Ladies College (MLC) 2018 NeuroDay workshop**

Invited to design and deliver a presentation that will engage, educate, and inspire high school students in neuroscience and brain research

2018

**BrainSTEM Innovation Challenge Mentor 2020**

Mentored high-school (Year9/10) students over 12 weeks to provide a practical STEM learning experience

2020

**Conference Presentations**

Delivered oral and poster presentations on research outcomes, in various conferences worldwide, including ‘Organisation for Human Brain Mapping’, Australasian Cognitive Neuroscience Society, Society for Mental Health Research, Society for Neuroscience

2016-2019