

Sung Wook Chung

E: sungwookmonash@gmail.com • M: 0474 126 352

[linkedin.com/in/sung-wook-chung](https://www.linkedin.com/in/sung-wook-chung) • Permanent Resident of Australia

A passionate researcher and science communicator who holds a PhD spanning disciplines of neuroscience, non-invasive brain stimulation, and mental health at Monash University, Monash Alfred Psychiatry research centre. Established the groundwork for the use of a rapid stimulation protocol (known as Theta Burst Stimulation) and developed the optimal method of application in the prefrontal cortex using electroencephalogram (EEG) as an outcome measure. Potential clinical applications include treatment of major depressive disorder and cognitive impairment. Working with both healthy and patient populations, conducts clinical trials with the highest form of care, dedication and professionalism (certification in Good Clinical Practice). Core skills:

Neurophysiology • Data / Statistical Analysis • Scientific Writing • Communication

EDUCATION

Feb 2014 – Jan 2018

Doctor of Philosophy, PhD | Full-Time

Monash University, Monash Alfred Psychiatry research centre

PhD Title: *Developing optimal methods for theta burst prefrontal brain stimulation*

Investigating what theta burst stimulation (TBS) does in the prefrontal cortex and identifying optimal parameters of TBS in its ability to alter brain activity in humans. A novel method was developed to obtain the most robust neurophysiological and behavioural outcome.

- Coordinating clinical trials in healthy individuals
- Conducting highly specialised experiments independently and as part of a collaborative team
- Programming of MATLAB scripts and analysis of EEG data
- Effectively communicated research ideas and concepts to a variety of audiences

Jul 2005 – Jul 2006

Bachelor of Science (Honours – Immunology)

Monash University, Australia

- Title of Honours Thesis: *The effect of HIV infection on matrix metalloproteinase (MMP) expression on monocytes and macrophage subsets*

Feb 2004 – Jul 2005

Bachelor of Science

University of New South Wales, Australia

- Specialisation: Medical Microbiology and Immunology, Physiology

PROFESSIONAL EXPERIENCE

Jan 2018 – PRESENT

Post-doctoral Researcher | Full-Time

Monash University, Monash Alfred Psychiatry research centre

- Recruitment and screening of research participants
- Performing non-invasive brain stimulation and collecting EEG data
- Programming of MATLAB scripts
- Supervising students (1 HDR, 2 Honours)

Feb 2014 – Jan 2018

PhD Scholar | Full-Time

- As above

Jul 2015 – Apr 2016

Research Assistant | Part-Time

Monash University, Monash Alfred Psychiatry research centre

- Recruitment and screening of research participants
- Collection and delivery of blood samples
- Analysis of neurophysiological data
- Writing scientific papers for publication

Nov 2012 – Feb 2014 /
Apr 2009 – Dec 2010

Assistant Global Sales and Marketing Manager / Web Designer | Full-Time

Grand Vertex Trading (www.gvt.co.kr), South Korea

- Sales and marketing
- Web design, editing and management

Jan 2011 – Oct 2012

Military Service

Intelligence Unit, South Korea

ACHIEVEMENTS

2014 – 2018

Co-author on 9 neuroscience publications (7 first-author)

Presented at 5 local and 2 international conferences

7 awards across local and international conferences

2018

Journal Cover

Human Brain Mapping

- 2/14 Neuroimaging ranking

2017

Outstanding Poster Award

2nd International Brain Stimulation Conference, Spain

- One of 3 out of ~500 (US\$500)

2016

Monash Graduate Scholarships (AU\$26,288 per annum)

Faculty Graduate Research International Scholarships (AU\$39,900 per annum)

VOLUNTEER ACTIVITIES

TMS course assistant

MAPrc, Melbourne

2014 – 2018

Student Representative

Alfred Precinct Student Information Session

2014 – 2016

De Castella Fund Run

Xavier College, Melbourne

2014 – 2016

REFEREES

Professor Paul Fitzgerald

Director of ECIMH, Epworth Healthcare

Tel: +61 3 9805 4287

E: paul.fitzgerald@monash.edu

A/Prof Kate Hoy

Head, Cognitive Therapeutic Research Program

Tel: +61 3 9076 5034

E: kate.hoy@monash.edu

Dr Rebecca Segrave

Clinical Neuropsychologist

Tel: +61 3 9905 0110

E: rebecca.segrave@monash.edu

MEMERSHIPS

Australasian Brain Stimulation Society

Australian Brain Alliance

- Association of Neurophysiological Technologists of Australia (ANTA)
- Australasian Cognitive Neuroscience Society (ACNS)

Interests

Technology • Ukulele • Skateboarding