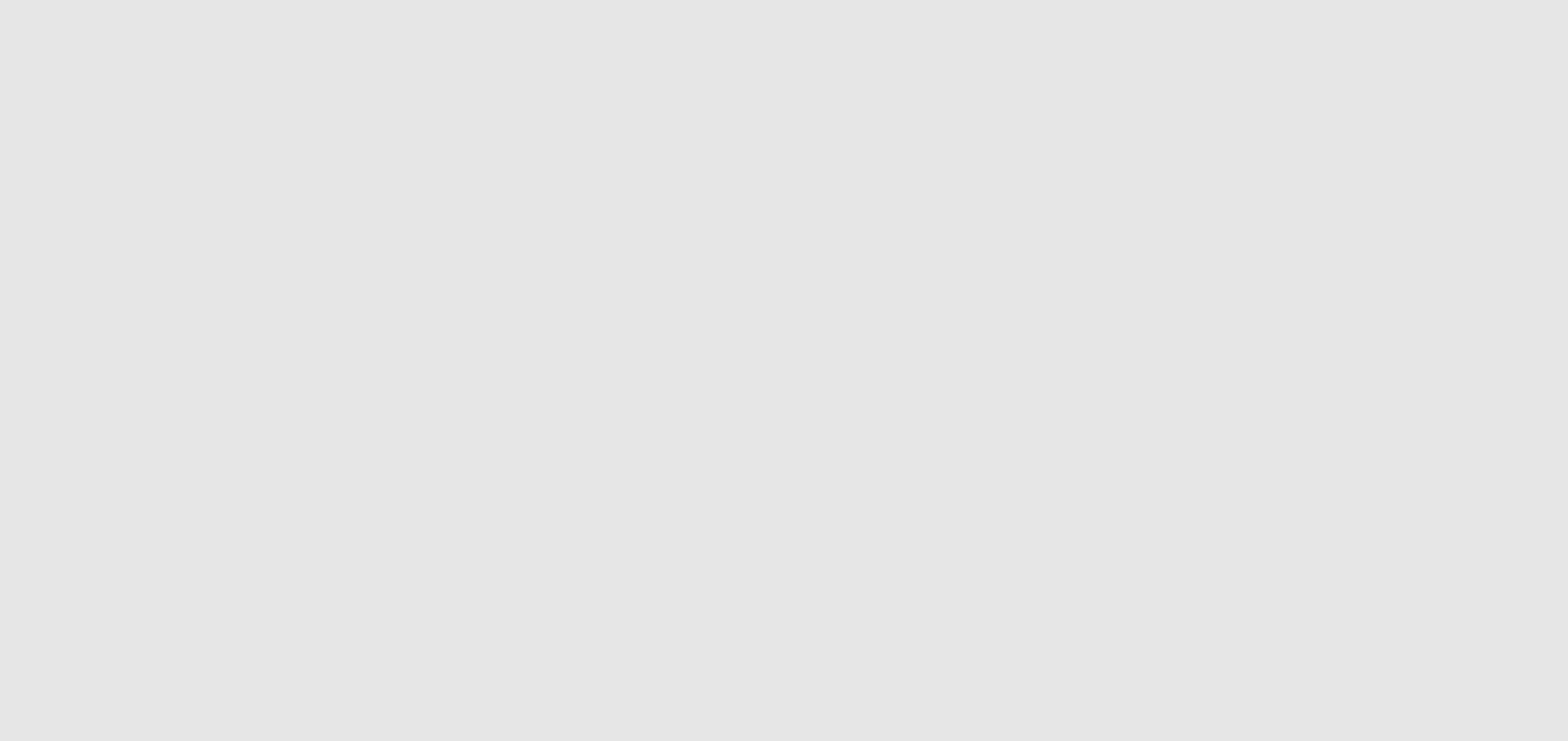
**Sung Wook Chung**

E: sungwookmonash@gmail.com • M: 0474 126 352  
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, data science, and mental health at Monash University, Monash Alfred Psychiatry research centre. Established the groundwork for the use of a rapid stimulation protocol in the prefrontal cortex for the potential treatment of the major depressive disorder and cognitive impairment. Developed the optimal method of application using complex data-analysis and robust statistical analysis methods. 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**



**Jul 2005 – Jul 2006**

**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

**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**

**PROFESSIONAL EXPERIENCE**

**Jan 2018 – Dec 2018**

**Bachelor of Science**

**University of New South Wales, Australia**

* Specialisation: Medical Microbiology and Immunology, Physiology

**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 and data analysis
* Supervising students (1 HDR, 2 Honours)

**Feb 2014 – Jan 2018**

**Jul 2015 – Apr 2016**

**Nov 2012 – Feb 2014 /  
Apr 2009 – Dec 2010**

**Jan 2011 – Oct 2012**

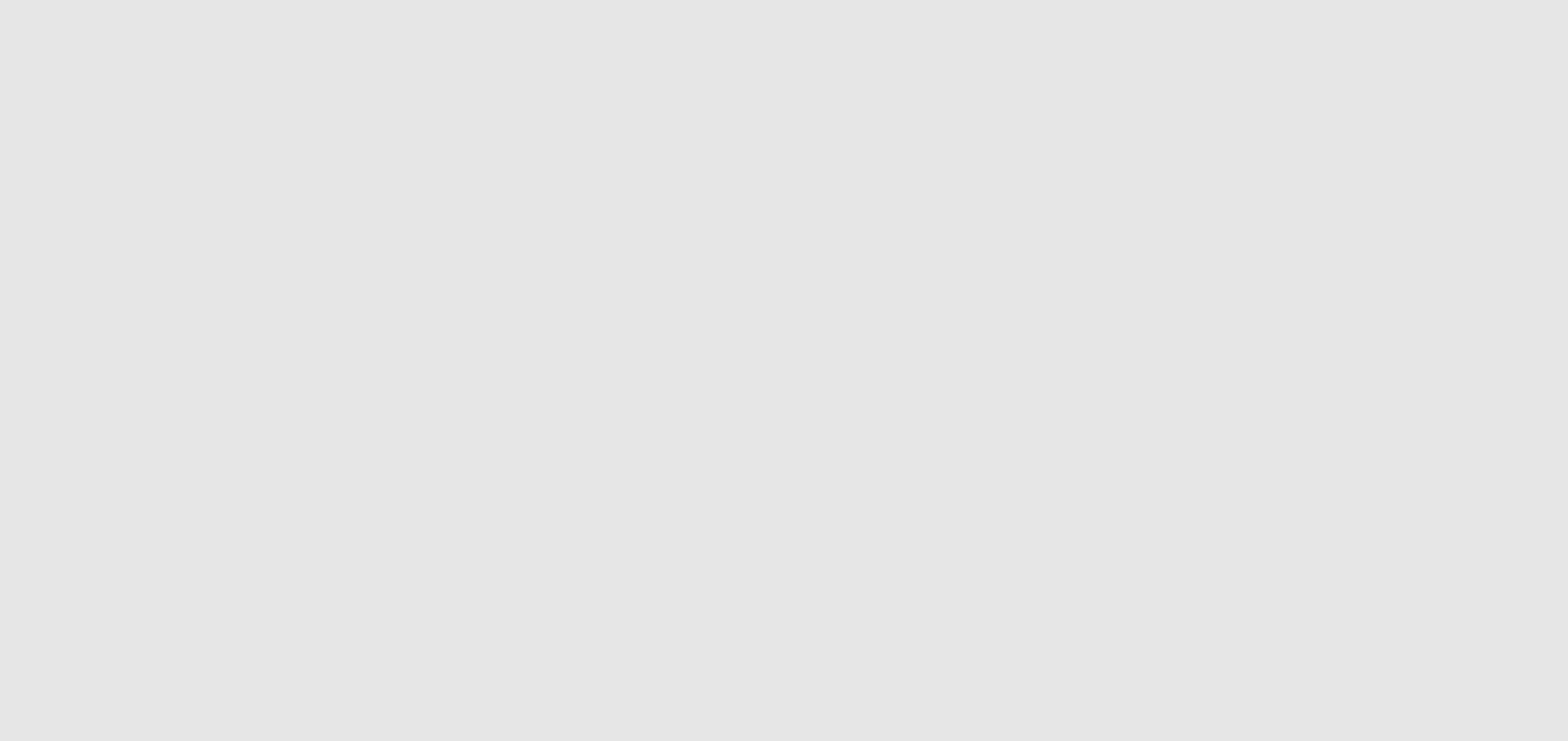
**ACHIEVEMENTS**

**2014 – 2018**

**2018**

**2017**

**2016**

****

**PhD Scholar | Full-Time**

* As above (Education)

**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

**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

**Military Service**

**Intelligence Unit, South Korea**

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

**Presented at 5 local and 2 international conferences**

**7 awards across local and international conferences**

**Journal Cover**

**Human Brain Mapping**

* 2/14 Neuroimaging ranking

**Outstanding Poster Award**

**2nd International Brain Stimulation Conference, Spain**

* One of 3 out of ~500 (US$500)

**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

**Professor Paul Fitzgerald**

Director of ECIMH, Epworth Healthcare

Tel: +61 3 9805 4287

E: paul.fitzgerald@monash.edu

Australasian Brain Stimulation Society

Australian Brain Alliance

**Student Representative** **De Castella Fund Run**

Alfred Precinct Student Information Session Xavier College, Melbourne

2014 – 2016 2014 – 2016

**REFEREES**

**A/Prof Kate Hoy Dr Rebecca Segrave**

Head, Cognitive Therapeutic Research Program Clinical Neuropsychologist

Tel: +61 3 9076 5034 Tel: +61 3 9905 0110  
E: kate.hoy@monash.edu E: rebecca.segrave@monash.edu

**MEMERSHIPS**

• Association of Neurophysiological Technologists of Australia (ANTA)

• Australasian Cognitive Neuroscience Society (ACNS)

**Interests**

Technology • Ukulele • Skateboarding

**Details**

**AWARDS & ACHIEVEMENTS**

* Cover of Human Brain Mapping in Feb 2018 issue (Publication #5)
* Travel Award for Australasian Cognitive Neuroscience Society Conference (value: AUD $250), 2017
* Outstanding Poster Award at 2nd International Brain Stimulation Conference (1 of 3 out of ~ 500; value: US $ 500), 2017
* Monash travel cover to attend 2nd International Brain Stimulation Conference (value: approx. AUD $1,800), 2017
* 2nd Prize Poster Presentation at SOBR symposium (value: AUD $250), 2016
* Monash travel grant (value: AUD $2,115), 2016
* Top ranked student abstracts for 2nd Australasian Brain Stimulation meeting (value: AUD $250), 2016
* Faculty Graduate Research International Scholarship (FGRIS) (value : AUD $39,900 per annum), 2016
* Monash Graduate Scholarship (MGS) (value : AUD $26,288 per annum), 2016
* Monash travel cover to attend 1st International Brain Stimulation Conference (value: approx. AUD $1,000), 2015
* Faculty of Pharmacy Fee Waiver (value: approx. AUD $108,989), 2007

**PUBLICATION(S)**

# Chung SW, Sullivan CM, Rogasch NC, Hoy KE, Bailey NW, Cash RFH, Fitzgerald PB. The effects of individualised intermittent theta burst stimulation in the prefrontal cortex: A TMS‐EEG study. Human Brain Mapping, 40 (2): 608-27, 2018

# Xianwei Che, Cash RFH, Chung SW, Fitzgerald PB, Fitzgibbon BM. Investigating the influence of social support on experimental pain and related physiological arousal: A systematic review and meta-analysis. Neuroscience & Biobehavioural Reviews, 92: 437-52; 2018

# Lee S, Chung SW, Rogasch NC, Thomson CJ, Worsley RN, Kulkarni J, Thomson RH, Fitzgerald PB, Segrave RA. The influence of endogenous estrogen on transcranial direct current stimulation: A preliminary study. European Journal of Neuroscience, 48 (4): 2001-12; 2018

# Chung SW, Rogasch NC, Hoy KE, Fitzgerald PB. The effect of single and repeated prefrontal intermittent theta burst stimulation on cortical reactivity and working memory. Brain Stimulation, 11(3): 566-74; 2018

# Chung SW, Rogasch NC, Hoy KE, Sullivan CM, Cash RFH, Fitzgerald PB. Impact of different intensities of intermittent theta burst stimulation on the cortical properties during TMS-EEG and working memory performance. Human Brain Mapping, 39(2): 783-802; 2018 (Cover of HBM Feb 2018 Issue)

# Chung SW, Lewis BP, Rogasch NC, Saeki T, Thomson RH, Hoy KE, Bailey NW, Fitzgerald PB. Demonstration of short-term plasticity in the dorsolateral prefrontal cortex with theta burst stimulation: A TMS-EEG study. Clinical Neurophysiology, 128(7): 1117-26; 2017

# Chung SW, Hill AT, Rogasch NC, Hoy KE, Fitzgerald PB. Use of theta-burst stimulation in changing excitability of motor cortex: A systematic review and meta-analysis. Neuroscience & Biobehavioural Reviews, 63(4):43-64; 2016

# Chung SW, Rogasch NC, Hoy KE, Fitzgerald PB. Measuring brain stimulation induced changes in cortical properties using TMS-EEG. Brain Stimulation, 8(6): 1010-20; 2015

# Chung SW, Hoy KE, Fitzgerald PB. Theta-burst stimulation: a new form of TMS treatment for depression? Depression and Anxiety, 32(3):182-92; 2015

**POSTER / ORAL PRESENTATION(S)**

1. **Chung, SW**, Sullivan CM, Rogasch NC, Hoy KE, Cash RFH, Fitzgerald PB. The effects of individualised intermittent theta burst stimulation in the prefrontal cortex: a TMS-EEG study. 7th Australasian Cognitive Neuroscience Society Conference, Adelaide, Australia. *Oral presentation* (Dec, 2017)
2. **Chung, SW**, Rogasch NC, Hoy KE, Fitzgerald PB. More is not always better: Impact of different intensities of intermittent theta burst stimulation in prefrontal cortex using TMS-EEG. 2nd International Brain Stimulation Conference, Barcelona, Spain. *Poster presentation* (Mar, 2017)
3. **Chung, SW**, Lewis BP, Rogasch NC, Saeki T, Thomson R, Bailey NW, Hoy KE, Fitzgerald PB. Demonstration of short-term plasticity in the dorsolateral prefrontal cortex with theta burst stimulation: A TMS-EEG study. SOBR Symposium, Melbourne, Australia. *Poster presentation* (Nov, 2016)
4. **Chung, SW**, Rogasch NC, Hoy KE, Fitzgerald PB. More is not always better: Impact of different intensities of intermittent theta burst stimulation in prefrontal cortex using TMS-EEG. Central Clinical School Annual Postgraduate Research Symposium, Melbourne, Australia. *Poster presentation* (Oct, 2016)
5. **Chung, SW**, Lewis BP, Rogasch NC, Saeki T, Thomson R, Bailey NW, Hoy KE, Fitzgerald PB. Demonstration of short-term plasticity in the dorsolateral prefrontal cortex with theta burst stimulation: A TMS-EEG study. 6th International Conference of Transcranial Brain Stimulation, G**ö**ttingen, Germany. *Poster Presentation* (Sept, 2016)
6. **Chung, SW,** Rogasch NC, Hoy KE, Fitzgerald PB. Intensity-dependent effect of intermittent theta burst stimulation in prefrontal cortex: A TMS-EEG Study. 2nd Australasian Brain Stimulation Meeting, Melbourne, Australia. *Oral Presentation* (Jul, 2016)
7. **Chung SW,** Hill AT, Rogasch NC, Hoy KE, Fitzgerald PB. Use of theta-burst stimulation in changing excitability of motor cortex: a systematic review and meta-analysis. SOBR Symposium, Melbourne, Australia. *Poster presentation* (Nov, 2015)

**CONFERENCES ATTENDED**

1. 7th Australasian Cognitive Neuroscience Society Conference, Adelaide, Australia (Dec, 2017)
2. 2nd International Brain Stimulation Conference, Barcelona, Spain (Mar, 2017)
3. 6th International Conference on Transcranial Brain Stimulation, G**ö**ttingen, Germany (Sept, 2016)
4. 2nd Australasian Brain Stimulation Meeting, Melbourne, Australia (Jul, 2016)
5. 1st International Brain Stimulation Conference, Singapore Expo Convention and Exhibition Centre, Singapore (Mar, 2015)