Sung Wook Chung

DATA SCIENTIST | NEUROSCIENTIST

0474126352

Melbourne, VIC

sungwookmonash@gmail.com

LinkedIn

GitHub

Google Scholar

SKILLS

- Neuroimage & Signal Processing
- Data Analysis & Statistical Modeling
- Machine Learning & Predictive Analytics
- Visualisation & Reporting
- Database Management & Software Development
- Web Development & Cloud Solutions

TOOLS & SOFTWARE

Python, NumPy, pandas, scikit-learn, git, Jira, R, MATLAB, terminal, Google Cloud, SQL, Docker, CSS, HTML, JavaScript

LANGUAGES

- English – *Proficient*
- Korean – *Proficient*

ABOUT ME

I am a data scientist with a Ph.D. in neuroscience and over six years of experience in data analytics, spanning both academic research and industry applications. My expertise includes data analysis, machine learning, and neuroimaging, with a strong foundation in programming languages such as Python, R, and MATLAB. I have a proven track record of developing data processing pipelines, performing statistical analyses, and visualising complex datasets to provide actionable insights. I excel at solving real-world challenges with data-driven solutions. A self-motivated learner who values collaboration and continuous growth, I am eager to contribute to innovative projects that deliver meaningful impact.

WORK EXPERIENCE

Data Scientist / 2023 - Present
Cyban / Melbourne, VIC

- Develop machine learning models using neuroimaging data for real-time patient monitoring
- Automate data processing pipelines for analysis, reporting, and predictive modelling
- Enhance predictive capabilities to improve patient outcomes through data-driven insights
- Optimise code for efficiency and reliability following software engineering best practices

Data Scientist and Analytics Engineer / 2023
Bionics Institute / Melbourne, VIC

- Develop data processing pipelines and analyse neurophysiological data
- Design individualised treatment regimens using advanced signal-processing algorithms
- Build and deploy cloud-based algorithms using Google Vertex AI
- Implement real-time data visualisation solutions for animal experiments using AWS architecture

Data Scientist / 2019 - 2022
Australian Institute for Teaching and School Leadership (AITSL)
Social Research Centre (SRC) / Melbourne, VIC

- Analyse education and workforce data, developing reports and visualisations
- Build and refine data models to support predictive analysis and strategic decision-making
- Manage stakeholder communications to present data-driven insights

EDUCATION / ACAMEDIA

PhD in Neuroscience | Post-doctoral Research / 2014 - 19
Monash University / Melbourne, VIC

Bachelor of Science (Hons) / 2004 - 06
Monash University / Melbourne, VIC
University of New South Wales / Sydney, NSW

GRANTS & AWARDS

- Blockchain Project Grants (>US$50,000)
- Nominations for Mollie Holman Doctoral Medal (Thesis Excellence)
- 7 awards across local and international conferences
- Journal Cover (Human Brain Mapping; 2/14 Neuroimaging ranking)
- Monash Graduate Scholarships (AU$26,288 per annum)
- Faculty Graduate Research International Scholarships (AU$39,900 per annum)

STUDENT SUPERVISION

PhD Candidate co-supervision: Mr. Robert Cooper / 2019
Monash University / Melbourne, VIC

Honours Students co-supervision:
Mr. Harry Geddes, Mr. Oliver Baell / 2019
Monash University / Melbourne, VIC