

BRIAN KIM

Physiotherapist



0450 802 407



briankim.wk@gmail.com



linkedin.com/in/brianwskim

PROFILE

Collaborative, detail-oriented educator, physiotherapist, and PhD candidate with concurrent roles as a health science academic and researcher in exercise science and neuromuscular imaging (multi-muscle segmentation machine learning models). Passionate about improving the communication and landscape of advanced musculoskeletal imaging for improved clinical translation, particularly for orthopaedic outcomes.

EMPLOYMENT HISTORY

Tutor

The University of Sydney

Jul 2023 – Present | Contract

Assistance was provided for clinical teaching units for Master's musculoskeletal physiotherapy (PHTY5204) and undergraduate sports (PHTY4226) units, managing the unit's Canvas page and addressing student queries in forums. I offered changes to tutorial content regarding applied anatomy activities for the cervical spine.

Physiotherapist

Mater Clinic Physiotherapy

May 2023 – Present | Part time

I am managing a predominantly sports orthopaedic caseload, closely connected with the North Sydney Orthopaedic and Sports Medicine Centre. Providing physiotherapy services through data-driven rehabilitation, I monitor high performance by incorporating force/torque-time variables into clinical practice.

Research Assistant & Tutor

Australian Catholic University

Apr 2022 – Present | Contract

I developed the doctoral research team's data cleaning processes and provided expert advice on study design for reliability studies and randomised controlled trials. Shortly after, I was identified as an engaging and influential tutor, so I began facilitating weekly tutorials and workshops for introductory biostatistics (BMSC100), biological foundations (BIOL121, BIOL125) and sports injury rehabilitation (EXSC346) units.

Achievements

- Received the highest tutor student evaluation results (/5) for biological foundations for three consecutive semesters (Median individual score: 4.83; Median unit score: 4.56) and biostatistics (Median individual score: 4.80; Median unit score: 4.56).
- Submitted two papers to Q1 journals in the field of motor control rehabilitation and sports epidemiology.
- Proactively produced technical documentation for the setup of new brain oxygenation and biomechanics devices, resulting in a 7% improvement of joint angle detection accuracy.

Physiotherapist

Physioworks Health Group

Mar 2021 – Jul 2022 | Full time

Working under two of Australia's specialist musculoskeletal physiotherapists, I progressed through the graduate program and was responsible for provision of physiotherapy and rehabilitation services across multiple clinics and head physiotherapist of a premier division football club.

Achievements

- Managed the clinic's highest new-graduate workload of regularly seeing fifteen patients per day in addition to regular letter and report writing to doctors, employers, and insurance companies.
- Liaised with multidisciplinary healthcare teams in a sporting setting as head physiotherapist for Pakenham Football Club, including a network of Melbourne's most reputable sports physicians.
- Used adaptable communication skills to successfully collaborate with clients across surgical units on their concerns, expectations, treatment plans and medical reports.

Teaching Associate

Monash University
Mar 2018 – Dec 2020

I was a Peer Assisted Study Sessions (PASS) Leader for first-year physiotherapy units. I collaborated with unit coordinators to discuss learning outcome difficulties of present cohorts before creating weekly worksheets that focused on physiotherapy theory, human anatomy, and research methods.

EDUCATION

Doctor of Philosophy (Faculty of Medicine and Health)

The University of Sydney
2023 – Present
Thesis title: *Deep learning applications in rotator cuff related shoulder pain*

Achievements

- **University of Sydney Postgraduate Award (2023):** A scholarship awarded to students of exceptional research potential for the duration of their postgraduate studies.
- **Beryl & Jack Jacobs Travel Award (2023) - \$8,218:** Supported by the Kolling Institute to assist and learn at Northwestern University's Musculoskeletal Biomotion Laboratory in 2024.

Bachelor of Physiotherapy (Honours)

Monash University
2017 – 2020
GPA: 3.688, WAM: 85.000

Achievements

- **Monash University Anatomy Prize (2020):** Finished the course with the highest cohort cumulative score for anatomy assessments.
- **Constance Read Memorial Prize (2020):** Achieved Monash Physiotherapy's highest four-year cumulative scores across all theory- and research-based assessments.
- **Monash University First-Year Physiotherapy Prize (2017):** Attained the highest aggregate score across all practical, anatomy, theory, and research units of first year.
- **Monash University Second-Year Physiotherapy Prize (2018):** Maintained the highest aggregate course score in second year.
- **Sir John Monash Scholarship for Excellence (2017):** Placed within the top ten international applicants across all courses at Monash University who completed Australian secondary education.
- Spearheaded independent research proposal and thesis applications as part of the Research Mentorship Program, formerly known as Physiotherapy Advanced – Research (Honours).

PROFESSIONAL RESEARCH/PUBLICATIONS (submitted & accepted)

2023

- **B Kim**, DA Opar, PJ Tofari, N Maniar, SJ Cormack, B Horsely, RG Timmins, DS Carmichael, JT Hickey. Establishing the validity of low sample rates for assessing isometric rate of force/torque development. *Submitted*.
- M Anthis, S Gourd, **B Kim**, JD Ruddy, R Whitely, RG Timmins, N Maniar, JT Hickey, DA Opar. The Fragility Index of risk factors for hamstring strain injuries. *Submitted*.

2020

- R Painter S Rahman, **W Kim**, A Frazer, J Tallent, A Pearce, D Kidgell. High-Volume Light-Load Strength Straining, but Not Low-Volume Heavy-Load Strength Training Increases Corticospinal Excitability. *Accepted*.

PROFESSIONAL MEMBERSHIPS

- Member of Australian Physiotherapy Association, Sport & Exercise National Group
- Member of Statistical Society Australia
- Member of Monash Musculoskeletal Research Unit
- Member of Neuro-Musculoskeletal Research Collaborative

LEADERSHIP & ACTIVITIES

Journal Reviewer

Various dates

- Orthopaedic Journal of Sports Medicine (2023 – Present)
- American Journal of Sports Medicine (2023 – Present)
- Musculoskeletal Science and Practice (2021 – 2023)
- British Journal of Sports Medicine (2021 – 2022)

Chief Editor

Postgraduate Research Student Society

Apr 2023 – Present

- Migrated society newsletter designs to university-recommended platforms
- Drafted the society's constitution for a successful application to the University of Sydney Union

Research Supervisor

Kolling Institute – Neuromuscular Imaging Research Laboratory

Apr 2023 – Present

- Technical supervisor for MD student research projects building deep learning models for automated quadriceps muscle segmentation

Executive Assistant

Monash Musculoskeletal Research Unit

May 2021 – Feb 2023

- Led social media platforms and designed meeting minute template for the research collaborative
- Actively participated in monthly meeting feedback for early career researcher presentations and studies