

# Enhance your academic journey at Swinburne.

Choose from a range of research areas and the faculty that specialises in them.

At Swinburne, we are dedicated to producing world-class research that meets the highest standards of quality and ethics. Our specialist centres, state-of-the-art facilities, and focus on societal benefit and scientific discovery make the university an exciting place to continue your academic journey.

Swinburne is also home to some of the best minds in their individual fields. Our faculty is home to award-winning researchers with extensive experience in the areas they teach. Develop your research skills, expand your critical thinking and participate in transformative academic work under their guidance.

From psychosis to sports science, our faculty specialises in a range of fields. It's just a matter of choosing the area that you're most passionate about.

## Dr Adrian Pranata

### Research

- Physiotherapy
- Lumbar spine
- Spine
- Low back pain
- Motor control
- Joint coordination
- Kinematics
- Kinetics
- Chronic musculoskeletal pain
- Lower limb kinematics/kinetics
- Musculoskeletal and sports rehabilitation
- Strength/resistance training
- Sensor technology
- Optoelectric movement analysis

### Contact details

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## Associate Professor Amanda Benson

### Research

- Exercise physiology
- Wearables and sensor technology
- Physical activity
- Resistance training
- Exercise for the prevention and treatment of chronic disease

### Contact details

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## Dr Andrea Phillipou

### Research

- Anorexia nervosa
- Eating disorders
- Body image
- Eyetracking
- Neurocognition

### Contact details

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## Associate Professor Andrew Pipingas

### Research

- Ageing
- Cognition
- Nutraceutical
- Cardiovascular
- Neuroimaging
- Nutrition

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## Professor Andrew Scholey

### Research

- Cognitive enhancement
- Nutritional interventions
- Drugs and alcohol
- Caffeine

### Contact details

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## Dr Annie Lassemillante

### Research

- Nutrition
- Food groups
- National Nutrition and Physical Activity Survey
- Hepatology
- Prostate cancer
- Osteoporosis

### Contact details

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## Dr Brian Cornwell

### Research

- Anxiety
- Brain oscillations
- Cognition-emotion interactions
- Dementia
- Neuroimaging
- Magnetoencephalography
- Spatial learning
- Virtual reality

### Contact details

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## Professor Con Stough

### Research

- Intelligence
- Illicit drugs
- Nutrition
- Emotional intelligence
- Driving
- Workplace

### Contact details

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## Professor David Crewther

### Research

- Attention
- Neuroimaging
- Visual psychophysics
- Autistic tendency
- Facial emotion
- Appearance
- Conscious awareness

### Contact details

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## Dr David Sly

### Research

- Hearing augmentation
- Auditory neuroscience
- Anxiety disorders
- Neuroscience wearables
- Medical technology

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## Professor Denny Meyer

### Research

- Mental health
- Sport
- Applied statistics
- Statistical modelling
- Big data

### Contact details

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## Dr Jahar Bhowmik

### Research

- Biostatistics
- Health statistics
- Experimental design
- Inference
- Applied statistics

### Contact details

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## Dr Carolynne White

### Research

- Health promotion and disease prevention
- Long-term health conditions (physical and mental)
- Health and well-being
- Primary health care
- Qualitative research

### Contact details

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## Associate Professor Conrad Perry

### Research

- Reading
- Dyslexia
- Language
- EEG
- Computation

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## Professor David Liley

### Research

- Anaesthesia
- Electroencephalography
- Dry electrodes
- Computational neuroscience
- Mean field modelling

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## Dr David White

### Research

- Neuro-feedback
- Cognitive enhancement
- EEG
- fMRI
- SSVEP
- Ageing

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## Dr Eric Tan

### Research

- Schizophrenia
- Formal thought disorder
- Quality of life
- Neurocognition
- Language

### Contact details

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## Associate Professor Jason Howitt

### Research

- Autism
- Parkinson's disease
- Brain development
- Exosomes
- Cellular signalling

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## Dr Jonathan (Yotti) Kingsley

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### Research

- Health promotion
- Qualitative research
- Ecosystem approaches to health

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## Associate Professor Joseph Ciorciari

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### Research

- Cognitive neuroscience
- Disorders of personality
- EEG and neuroimaging
- Personality

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## Prof Karen-leigh Edward

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### Research

- Mental and physical health
- Resilience
- Practice based research in health
- RCT
- Systematic reviews
- Mixed methods

### Contact details

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## Dr Luke Downey

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### Research

- Emotional intelligence
- Driving
- Drugs
- Eye movements

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## Dr Mark Schier

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### Research

- Sensory systems
- Attention
- Visual systems

### Contact details

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## Dr Michael Fahey

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### Research

- Biostatistics
- Measurement error
- Validation studies
- Epidemiology
- Data science
- Prostate cancer

### Contact details

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## Associate Professor Jordy Kaufman

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### Research

- Cognitive development
- Social development
- Cognitive neuroscience
- Media psychology
- Altruism

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## Dr Joshua Ameliorate

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### Research

- Augmented reality
- Traumatic brain Injury
- Anatomy
- Aquaporins
- Virtual reality
- Neuropathology
- Anatomy education
- Virtual reality and clinical simulation

### Contact details

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## Dr Loretta Garvey

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### Research

- Higher education
- Nursing
- Medical education
- Assessment
- Blended learning

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## Dr Mark Merolli

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### Research

- Digital health
- Health informatics
- Participatory health
- mHealth
- Social media

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## Dr Matthew Cooke

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### Research

- Obesity
- Metabolism
- Supplements
- Energy balance
- Genetics

### Contact details

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## Dr Oren Tirosh

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### Research

- Biomechanics
- Wearable technology
- Gait
- Running injuries
- Biofeedback
- Wheelchair
- Spine
- Sport

### Contact details

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## Professor Penny Schofield

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### Research

- Cancer
- Oncology
- Health behaviours
- Communication
- Peer support
- Decision aids
- Self-management
- Psycho-educational
- Psycho-social
- E-health
- Interventions
- Implementation

### Contact details

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## Dr Rachel Batty

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### Research

- Psychosis
- Schizophrenia
- Traumatic brain injury
- Neuroimaging
- Neurophysiology
- Cognitive neuropsychiatry

### Contact details

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## Associate Professor Rachael McDonald

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### Research

- Disability
- Assistive technology
- Wheeled mobility and seating/wheelchairs
- Disruptive technology
- Occupational therapy
- Intellectual disability
- Cerebral palsy

### Contact details

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## Associate Professor Regina Belski

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### Research

- Nutrition
- Dietetics
- Sports Nutrition
- Functional Food
- Metabolic Health
- Nutrigenomics
- Pregnancy Nutrition

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## Dr Saimon Moraes Silva

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### Research

- Bionic implantation
- Antifouling surfaces
- Polymeric materials for biomedical applications
- Drug delivery
- Materials engineering

### Contact details

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## Dr Sam Wu

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### Research

- Exercise science
- Pacing
- Endurance exercise
- Compression garments
- Cycling
- Exercise in chronic patients

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## Dr Shakuntla Gondalia

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### Research

- Diet and nutrition
- Gut microbiota
- Blood biomarkers
- Gut-Brain connection
- System biology

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## Dr Stephen Quinn

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### Research

- Logistic regression
- Goodness-of-fit
- Simulations

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## Professor Susan Rossell

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### Research

- Schizophrenia
- Body Dysmorphic Disorder
- Cognition
- Language
- fMRI
- Neuropsychology

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