



University of  
South Australia

# EARLY CAREER RESEARCHER DEVELOPMENT PROGRAM



## 2020 Cohort Members



**Dr Sheree Bailey**

*Centre for Cancer Biology and Health and Biomedical Innovation, UniSA Clinical and Health Sciences*

Dr Sheree Bailey is a medical scientist with a keen interest in blood cell biology and development of blood disorders. Sheree uses flow cytometry to study abnormalities in cell phenotype and signalling pathways that lead to haematological malignancies such as leukaemia, lymphoma and myeloproliferative disorders with the aim to identify new biomarkers for prognostication and targeted therapy.



**Dr Alex Barker**

*Health and Biomedical Innovation, Musculoskeletal Biology Research Laboratory, Cancer Research Institute, UniSA Clinical and Health Sciences*

Dr Alex Barker is an orthopaedic researcher with a focus on testing new bone implant devices with antimicrobial properties. Alex specifically works on developing and testing preclinical models to assess the antimicrobial and bone integrating capabilities of novel surfaces. This research has applications for trauma patients and those requiring joint replacement.



**Dr Ashlee Borgkvist**

*Centre for Workplace Excellence, UniSA Business*

Dr Ashlee Borgkvist is a researcher who is interested in the intersections of gender, family, work, and health. Ashlee's research aims to better understand men and women's constructions of identity and positioning in relation to work, family, and parenting, as well as organisational culture, and the impact of work-family relations and policies upon women and their careers. Ashlee has further interests in the intersections between gender, gender performance, criminology, and mental health and well-being.



**Dr Felicity Braithwaite**

*Body in Mind Research Concentration, & Innovation in IMPLementation & Clinical Translation in Health (IIMPACT), UniSA Allied Health and Human Performance*

Dr Felicity Braithwaite is a researcher with a background in physiotherapy. Felicity is currently coordinating a multicentre clinical trial investigating the effect of pain neuroscience education and physical activity for knee osteoarthritis. Felicity is interested in furthering our understanding of pain mechanisms to improve the treatment of pain. Felicity has a particular interest in placebo effects in pain and how we can control them clinical trials and optimise them in clinical practice.



**Dr Samuel Chalmers**

*Alliance for Research in Exercise, Nutrition and Activity (ARENA), UniSA Allied Health and Human Performance*

Dr Samuel Chalmers is an applied exercise physiologist and sport scientist who investigates the interaction of the environment and human physiology during sport and exercise. Secondly, Samuel investigates injury surveillance and prevention in youth sport.



**Dr Joe Cho**

*Centre for Applied Finance and Economics, UniSA Business*

Dr Hyunbum (Joe) Cho is an early career researcher who investigates real estate: in particular, real estate investment, real estate fund management, property technology (PropTech) and housing issues.



**Dr Kate Christ**

*Centre for Sustainability Governance, UniSA Business*

Dr Kate Christ is a sustainability accounting researcher with a particular interest in environmental management accounting, water accounting and management of and accounting for modern slavery risk in corporate operations and supply chains. Kate has 29 peer reviewed publications in these areas and has previously received funding from Wine Australia and CPA Australia. Kate has presented her research nationally and internationally to both academics and practitioners and believes in undertaking research with real world impact.



**Dr Chris Desire**

*Future Industries Institute*

Dr Chris Desire is an analytical chemist, who focuses on the preparation and application of new materials in order to improve the separation and detection of important biological compounds.



**Dr Dinithi Dissanayake**

*Centre for Sustainable Governance, UniSA Business*

Dr Dinithi Dissanayake is a sustainability accountant who explores the way that the notions of accountability and governance are understood, operationalised and affect people and institutions in modern society.



**Dr Carl Gu**

*UniSA STEM*

Dr Carl Gu is an aviation researcher who devoted to increasing flight training quality and safety by helping students establishing correct habit patterns. Carl's second research focus is improving airport sustainability through the application of innovative technologies and strategies.



**Dr Nicole Hartnett**

*Ehrenberg-Bass Institute for Marketing Science, UniSA Business*

Dr Nicole Hartnett is a marketing scientist who investigates advertising and media effects on consumer memory and behaviour. Nicole is particularly interested in identifying evidence-based principles and processes to improve the creativity and effectiveness of advertising linked to marketing objectives (e.g. sales, market share).



**Dr Frank Huo**

*Centre for Workplace Excellence (CWeX), UniSA Business*

Dr Frank Huo is a researcher in Human Resource Management (HRM). Frank's research investigates how HRM affects organizational performance and employee wellbeing.



**Dr Emma Karran**

*Body in Mind Research Concentration, & Innovation in IMpLementation & Clinical Translation in Health (IIMPACT), UniSA Allied Health and Human Performance*

Dr Emma Karran is a Physiotherapist who is interested in understanding the contributors to poor low back pain outcomes and exploring strategies to optimise the clinical management of low back pain in primary care. Emma's current research involves mixed methods to explore the social determinants of persistent low back pain, including the relationships between social disadvantage and persistent pain.



**Dr Jessica Logan**

*Mechanisms in Cell Biology and Disease Research Group, Cancer Research Institute, UniSA Clinical and Health Sciences*

Dr Jessica Logan is a medical scientist with a keen interest in histopathology. Jessica's research focus involves using cell biology to illustrate disease pathogenesis in cancer. Jessica is also interested in understanding the cellular regulation of venom production in advanced snake species with may lead to potential therapeutic advances.



**Dr Jantina Manning**

*Molecular Regulation Laboratory, Centre for Cancer Biology*

Dr Jantina Manning is a cellular biologist investigating how the modification of proteins after translation is relevant to disease, in particular those of the cardiovascular and renal systems.



**Dr Carmela Martino**

*Mechanisms in Cell Biology and Disease Research Group, Cancer Research Institute, UniSA Clinical and Health Sciences*

Dr Carmela Martino is a medical scientist whose research interests are histopathology, cell biology, and molecular biology to study cancer pathogenesis. Carmela is particularly interested in cancer establishment, vascular invasion and metastatic disease. Carmela is also interested in the role of platelets in cancer progression and metastasis.



**Dr Jenna Meiksans**

*Australian Centre for Child Protection, UniSA Justice and Society*

Dr Jenna Meiksans is a child protection researcher with a background in Psychology, interested in improving outcomes and service responses for children who have been removed from their home due to abuse and neglect. This includes child protection system design and reform; improving practice with vulnerable children and young people; and understanding decision making within complex systems.



**Dr Sarah Moulds**

*Transforming Societies, UniSA Business*

Dr Sarah Moulds is a public law researcher with a passionate interest in improving the quality of the law making process in Australia by ensuring that a broader range of views and voices are heard in Parliament. Sarah has subject-specific expertise in areas including administrative law, anti-discrimination law, criminal law and constitutional law and a broad interest in connecting academic research with end users, and forging stronger links between research and government policy making.



**Dr Kim Neylon**

*Rosemary Bryant AO Research Centre, UniSA Clinical & Health Sciences*

Dr Kim Neylon is a social anthropologist who investigates clinician and patient health care experiences, currently concerning cancer survivorship and nurse burnout. Kim's research interests also include social constructions of health, work, and gender relations in Australia; with a focus on authenticity, urban-rural relations, ethical consumption and popular mis/representations of health and science.



**Dr Thao Nguyen**

*Molecular signaling laboratory, Centre for Cancer Biology*

Dr Thao Nguyen is a cancer research scientist who investigates the underlying mechanisms responsible for acute myeloid leukaemia relapse, and in turn contributes to the development of strategies to improve patient survival.



**Dr Olivia Octoman**

*Australian Centre for Child Protection, UniSA Justice and Society*

Dr Olivia Octoman is a social science researcher with a psychology background who is interested in research regarding child protection system design and response. Olivia is interested in improving early intervention and prevention responses to children who are subject to child abuse and neglect and their families to improve outcomes for children and families and reduce demand on already overwhelmed child protection departments.



**Dr Helen Palethorpe**

*Gene Regulation in Cancer Group, Centre for Cancer Biology*

Dr Helen Palethorpe is a post-doctoral researcher investigating the role of the gene Quaking (QKI) in prostate cancer progression and resistance to androgen deprivation therapies and the link between this gene and disease recurrence as well as poorer patient survival. Through her research Helen hopes to show how knockdown and overexpression of QKI in prostate cancer cell lines affects their behaviour and resistance to current androgen deprivation therapies. This will allow for the study of potential mechanisms and provide opportunities to discover drugs that can target QKI.



**Dr Ray Quek**

*UniSA STEM*

Dr Ray Quek is a polymer chemist with a broad interest in developing stimulus-responsive polymers that can be used for different biomedical applications. Ray's current work is focused on the design and synthesis of polymers that are responsive to the presence of virulence factors produced by bacteria.



**Dr Jeremy Rao**

*Energy and Advanced Manufacturing, Future Industries Institute*

Dr Jeremy Rao is currently working with the industry-scale equipment to produce 30 printing parts as a key member of the ARC Surface Engineering for Advanced Materials (SEAM) project, ensuring the delivery of experimental outcomes and research milestones for industry. These parts will find applications in industries such as oil & gas and mining.



**Dr Aparna Samaraweera**

*Natural and Built Environments Research Centre, UniSA STEM*

Dr Aparna Samaraweera research focus is on Sociology in Built Environment: in particular studying culture in different contexts such as in construction project management, disaster management, waste management, team negotiations etc., where culture is defined as a set of basic assumptions being held by individuals or groups of people.



**Dr Ty Stanford**

*Quality Use of Medicines and Pharmacy Research Centre, UniSA Allied Health and Human Performance, & UniSA Clinical and Health Sciences*

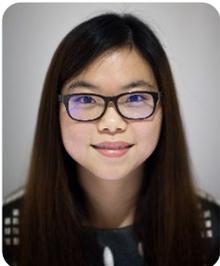
Dr Ty Stanford is a biostatistician, with research and private sector experience, with a passion for applying computational statistics for better health outcomes. Currently, Ty is investigating the safety profiles of biologic pharmaceuticals using sequence analysis, disproportionality analysis and pattern discovery.



**Dr Brad Stenner**

*Alliance for Research in Exercise, Nutrition and Activity, UniSA Allied Health and Human Performance*

Dr Brad Stenner is an occupational therapist who investigates the value and benefits of sport for older adults. As a form of exercise and physical activity, sport can provide older adults with opportunity to continue to play as they age, and as such, obtain physical, mental and cognitive benefits from doing so. Brad is also particularly interested how sports can be adapted/modified for older adults and those with disability.



**Dr Lih Tan**

*Vascular Biology and Cell Trafficking Laboratory, Centre for Cancer Biology*

Dr Lih Tan is a biologist that utilises microscopy techniques to visualise interactions of CAR T cells with cancer cells and blood vessels with hopes to improve CAR T cell therapy in solid tumours.



**Dr Chris Thornton**

*Design Research for Health and Wellbeing, UniSA Creative*

Dr Chris Thornton is a designer and educator who specialises in research on human-nature relations and the ways in which social, ecological and psychological theory can be used to enhance our understanding of, respect for and connection to the natural world through design.



**Dr Neil Tippet**

*Research in Educational and Social Inclusion (RESI), UniSA Justice and Society*

Dr Neil Tippet is a cross-disciplinary researcher whose interests include child health, wellbeing and behaviour. Neil's work covers multiple areas, predominantly psychology and education. Neil has particular expertise in relation to qualitative and quantitative research design, data collection and analysis, and dissemination of research findings through both traditional and non-traditional research outputs.



**Dr Ash Tower**

*Creative People, Places, and Products (CP3), UniSA Creative*

Dr Ash Tower is a cultural studies scholar and art theorist whose work sits at the intersections of art, science, and knowledge practices. Ash's previous research foci have addressed the social studies of knowledge, learning in communities of practice, and interdisciplinary collaboration.



**Dr Ysabella (Bella) Van Sebille**

*Cancer Treatment Toxicities Group and C3L*

Dr Bella Van Sebille investigates one of the most debilitating side effects of cancer treatment, mucositis. In addition to further understanding the mechanisms that underpin mucositis, Bella's research focuses on how we can use digital health to support cancer patients, and make cancer treatment more tolerable.



**Dr Damien Wallace**

*Centre for Applied Finance and Economics, UniSA Business*

Dr Damien Wallace is a financial market expert who investigates asset pricing and financial markets, with a focus on emerging markets, sustainable finance, defence and space financial literacy and funding and on passive investment securities.



**Dr Amanda Watson**

*Alliance for Research in Exercise, Nutrition and Activity (ARENA), UniSA Allied Health and Human Performance*

Dr Amanda Watson is a researcher who investigates children's use of time (physical activity, sedentary behaviour and sleep), diet, health, fitness and academic performance. A particular research interest of Amanda's centers on the effect of physical activity on academic performance.



**Dr Mirjam Wiedemann**

*Aviation, UniSA STEM*

Dr Mirjam Wiedemann is an economist who investigates best practises in urban design with a special focus on airport-centred regions. Mirjam has a strong interest in sustainable regions and its necessary (aviation) infrastructure, urban design principles and economic factors. Making a positive contribution to current and future generations living conditions such as the integration of smart technology and developing design principles for healthy and sustainable urban living is what Mirjam is passionate about.



**Dr Xuan Wu**

*Future Industries Institute*

Dr Xuan Wu's research mainly focus on the solar-thermal energy conversion and applications, in particular, using photothermal effect for seawater desalination and wastewater purification.