



DIGITAL SCORES – INVESTIGATING THE TECHNOLOGICAL TRANSFORMATION OF THE MUSIC SCORE

Cat Hope (SZC SoMP)

European Research Council

The project is led by De Montfort University, UK, and in collaboration with Monash University, Concordia University (Canada), University of California (USA) and Central Conservatory of Music (China). It aims to investigate the shifts in creativity and musicianship that digital scores have on musicians: composers, performers, makers, designers and coders. A parallel objective is to renew the music score as a digital space for music communication. In addition to the commissioning of 50 new pieces of music, professional musicians, music researchers and students will take part in a longitudinal scientific study of digital musicianship. Case studies addressing new computational technologies such as artificial intelligence, machine learning, virtual reality, telematic networks and robotics will result from this study. Professor Hope will contribute her expertise on creation and analysis of a range of digital score prototypes. The project will be the first international scientific investigation into how digital scores affect creativity and musicianship and will lead to new ways of making and performing music worldwide.

RATIONALISING REPORTING STANDARDS AND GUIDELINES

Wendy Stubb (SoSS)

CPA Australia

Led by Deakin, the project aims to review the Environmental, Social and Governance (ESG) reporting standards to identify the similarities,

differences, and connection between the frameworks. Based on desktop research and interviews with reporting standards setting bodies and Australian regulators, the activity will provide guidance on the 'matrix' of ESG reporting standards for use by CPA Australia members including guidance on how to navigate this complexity.

ADVERSARIAL COLLABORATION TO TEST CONTRASTING PREDICTIONS FROM INTEGRATED INFORMATION THEORY AND PREDICTIVE PROCESSING ACCOUNTS OF CONSCIOUSNESS

**Jakob Hohwy (Monash Centre for
Consciousness and Contemplative
Studies (M3CS), SoPHIS)**

Templeton World Charity Foundation

This project is led by University of Amsterdam and in collaboration with Monash University, the University of Wisconsin-Madison, University of Glasgow, Schepens Eye Research with Harvard University, Columbia University and York University (Canada). The group at Monash, led by Professor Jakob Hohwy, will develop theories of consciousness, computational modelling, and conduct behavioural, electroencephalogram (EEG) and magnetoencephalogram (MEG) experiments. The Monash group advocates the Bayesian 'active inference' account of consciousness and will be testing this theory against 'integrated information theory' using Bayesian computational models and visual illusion paradigms.

METEMPSYCHOSIS: AN INTERRELIGIOUS HISTORY

**Aydogan Kars, Constant Mews and
Raphael Dascalu (M3CS, Religious Studies
Program, Australian Centre for Jewish
Civilisation, SoPHIS)**

Philanthropy

This two-year project aims to generate renewed academic focus around the interreligious history of reincarnation. Diverse religious and philosophical traditions around the world have adopted ideas of metempsychosis or the transmigration of the soul. Christians, Jews, and Muslims have also experimented with the idea, while such Abrahamic experiments have been disregarded and even silenced. On the other hand, these engagements can teach us not only the diversity within each of these faiths, but also the deep interconnections between their intellectual heritages. The adoption of metempsychosis often mirrored intellectual exchanges between religious traditions, as in the case of the prominent School of Illuminism, which exemplifies such philosophical interactions between Muslims, Jews, and Indian religions.

The project team will provide English translations of a rich set of original mystical, theological, and philosophical texts on the transmigration of the soul. They will develop an archive of historical sources on metempsychosis, and pursue the hypothesis that the history of metempsychosis is also the history of forgotten transcultural and interreligious exchanges.

BUILDING THE EVIDENCE BASE ON PERPETRATOR PROGRAM ATTRITION AND PARTICIPANT ENGAGEMENT STRATEGIES

Nicola Helps, Kate Fitz-Gibbon, Jasmine McGowan (Monash Gender and Family Violence Prevention Centre (MGFVPC), SoSS)

Family Safety Victoria, Department of Families, Fairness and Housing (DFFH) (Victoria)

This project will identify current gaps in and build a robust evidence base for best practice interventions, service delivery and innovation in family violence and sexual assault prevention and support services. This project team will comprise MGFVPC researchers in partnership with No to Violence and five Victorian program providers: the Centre for Non-Violence, Bethany Community Support, Taskforce Community Agency, inTouch Multicultural Centre against Family Violence, and Relationships Australia Victoria. This collaboration recognises the imperative of bringing together academic and practice expertise to build evidence-informed understandings of what impacts perpetrator program attrition and how we can develop more effective perpetrator engagement strategies.

CREATIVE DEVELOPMENT OF SELF- WORLD

Louise Devenish (SZC SoMP)

Australia Council for the Arts

Developed in collaboration with composer Annie Hui-Hsin Hsieh (Carnegie Mellon University), 'Self-World' is a new 40-min installation-performance for sextet and electronics placed within an instrumental infrastructure built from textural

sheet materials. Inspired by the term umwelt (Ger. surrounding-world, environment), which describes the life experience of organisms as a spatio-temporal, 'self-in-world' reference, Self-World explores how sonic events and happenings are perceived in relation to our immediate selves, each other, and environment. Depending on where within the infrastructure audience members choose to place themselves, each person will have a different perspective of the work, and the events that unfold within it.

TECHNOLOGY-FACILITATED COERCIVE CONTROL: MAPPING WOMEN'S DIVERSE PATHWAYS TO SAFETY AND JUSTICE

Asher Flynn (SoSS)

Australian Institute of Criminology

In collaboration with RMIT and Women's Services Network, the project aims to break new ground by gathering much-needed empirical data about women's experiences accessing support and justice service provision when experiencing technology-facilitated coercive control. It addresses a significant gap in an under-researched area of criminal justice policy on an emerging criminal justice and policy issue that is of growing importance both nationally and internationally. It will generate new knowledge on the current pathways to justice and safety for women experiencing coercive control within intimate relationships in the Australian context. It draws on the vital practice-based knowledge of support services workers regarding the challenges victim/survivors face in seeking help when experiencing technology-facilitated coercive control, including what resources they need to respond to the unique challenges created by this form of abuse.

STRENGTHENING CYBERSECURITY MATURITY AND CYBER SECURITY AWARENESS: AN EVALUATION OF THE ASIA-PACIFIC REGION USING CYBERSECURITY CAPACITY MATURITY MODEL FOR NATIONALS

Lennon Chang (SoSS)

Oceania Cyber Security Centre Limited

The project will conduct multi-stakeholder, in-country national cybersecurity reviews and related research using the Cybersecurity Capacity Maturity Model for Nations (CMM). A CMM review helps countries to benchmark their capacity and identify priorities for strengthening that capacity on the next steps of the cybersecurity maturity journey. The findings of the project will also provide individual countries a better knowledge on their strengths and weaknesses on their cybersecurity capacity and awareness and hence enhance further their capacity and awareness based on the recommendations provided by this research.

A DESCRIPTIVE GRAMMAR OF WARIYANGGA/THIINMA

Alice Gaby and Jacqueline Valerie Cook (LLCL)

Dreadnought Resources

Warriyangga and Thiinma are highly endangered Australian languages from the Gascoyne region of Western Australia. This project will work towards a full description of the two languages under the supervision of an Elder and native speaker. The results will feed into the current cultural revival movement, increasing the capacity for these languages to be taught and allowing for wider community engagement and reconnection to language.

**CHILD AND YOUNG PERSON MARAM
LIVED EXPERIENCE ENGAGEMENT
PROJECT**

Kate Fitz-Gibbon, Jasmine McGowan and
Rebecca Stewart (MGFVPC, SoSS)

Family Safety Victoria, Department of
Families, Fairness and Housing (DFFH)
(Victoria)

The MGFVPC team has been contracted by Family Safety Victoria (FSV) to engage with Victorian children and young people with lived experience of family violence to inform the development of the Child and Young Person Risk and Wellbeing MARAM guidance. The project will support FSV to deliver high quality child and young person-centred MARAM risk assessment and risk management practices as well as wellbeing tools and guidance by engaging directly with young people who have lived experience of family violence. The team is seeking to include the voices of young people from diverse communities including First Nations young people, young people with a disability, LGBTIQ+ young people, culturally and linguistically diverse young people, rural young people and young people who are victims of adolescent intimate partner violence.

**DEVELOPMENT, PRODUCTION
AND SUPPLY OF A 3D ANIMATED
INDIGENOUS DREAMTIME CREATION
STORY FEATURING MURRAY COD**

John Bradley (Monash Indigenous Studies
Centre, SoPHIS)

Victorian Fisheries Authority (VFA)

This project will partner with VFA and the Yorta Yorta community to develop an animation of the Traditional Yorta Yorta story of the Murray Cod. The animation will be used in the Visitors Centre of the Murray Cod Hatchery based in Arcadia VIC.

**VICTORIAN LOCAL COUNCILS AND
GENDER EQUALITY: EXAMINING
THE INTERSECTIONS FOR WOMEN
FROM NON-ENGLISH SPEAKING
BACKGROUNDS (NESBS)**

Hyein Ellen Cho and Marie Segrave
(MGFVPC and Criminology Program,
SoSS)

Commission for Gender Equality in the
Public Sector, (DFFH) (Victoria)

This project aims to analyse and provide insight into the implementation and impact of gender equality commitments in local councils, with a focus on the specificity of how those commitments target and impact women employees from Non-English Speaking Backgrounds. The findings will offer key insights into how to implement intersectional responses to gender equality and support the efforts of the Commission to work with employees and leadership in transforming the public sector more broadly.

**THE NEXUS OF PUBLIC AND ELITE
OPINIONS: IMPLICATIONS FOR
POLICIES AND INSTITUTIONS**

Robert Thomson and Dharmalingam
Arunachalam (SoSS)

ONI - NISDRG - National Intelligence
Challenges

Collaborating with Monash IT and University of Melbourne, the project aims to advance knowledge of how public and elite opinions affect the policies and political institutions of Australia's main trading partners, including China and India. It expects to generate insights into their economic and environmental policies, trade openness and adversarial international behaviour.

Combining established qualitative methods from social sciences with new automated methods from computer science, the project will provide improved measures of public and elite opinions and their effects on policies and institutions, and strengthen our capacity to understand and anticipate stability and change in other countries' policies and institutions.

**PINCHGUT OPERA - "WOMEN OF THE
PIETA" AND "MEDEE"**

Anna McMichael (SZC SoMP)

Pinchgut Opera

The researcher is engaged to perform as violinist in Pinchgut Opera's production of "Women of the Pieta" and "Medee" at City Recital hall, Angel place, Sydney and Melbourne Recital Centre. "Women of the Pieta" is an unmissable concert experience to re-create the splendour and sound of the music performed by the women and girls at Vivaldi's Ospedale della Pietà. "Medee" is one of the greatest operas of the French Baroque era and is high in drama and emotion: French tragédie lyrique in its most classic form.

**DOMESTIC DISASTER RESPONSE:
HOW WILL CLIMATE CHANGE AFFECT
DEMANDS ON ARMY RESOURCES?**

Joshua Newman (SoSS)

Australian Army

This project will examine likely scenarios in which Army may be called upon to engage in domestic disaster relief, and will analyse the impact these responsibilities may have on Army resources. The aim of the project is to spark debate and discussion on Army's ongoing role in domestic disaster response.

**AUSTRALIAN TELEVISION AND
ENVIRONMENTAL SUSTAINABILITY****Aneta Podkalicka (MFJ)****CSIRO - Energy (Brisbane)**

The project aims to examine media strategies to promote values of environmental sustainability to a wide audience in Australia. Focused on the Australian television industry, and conducted in collaboration with CSIRO, the project will collect perspectives from media makers and practitioners producing environmental content for distribution across commercial, public and independent/activist sectors. It will produce an improved, empirically grounded understanding of challenges and opportunities for creating and disseminating impactful and engaging environmental content in the Australian context.

**DEVELOPMENT OF CURRICULUM
FOR THE SOCIAL AWARENESS
LEARNING PROGRAM****Asher Flynn and Lisa Wheildon (SoSS)****Australian Minerals and Energy Skills
Alliance Limited (AUSMESA)**

The Monash team will provide expert advice on the curriculum development for a high-impact and innovative social awareness learning program led by AUSMESA. This program will be dedicated for Australia's mining and resources industry to educate their employees regarding contemporary understandings and cultural views on the behavioural domains of sexual harassment, bullying, racism, and First Nations and their impacts in the workplace; and the standards of behaviour that employers are legally obligated to ensure in order to address those impacts.

**CARTILAGE BASED STEM CELL
THERAPIES FOR JOINT DEFORMITY
AND FACIAL DISFIGUREMENT. A
FRAMEWORK FOR POINT-OF-CARE
MANUFACTURING AND DELIVERY
(ARISTOCRAT)****Claire Tanner and John Gardner (SoSS)****MRFF – 2021 Stem Cell Therapies**

ARISTOCRAT is a first of its kind stem cell-based Australian consortium that aims to advance therapies that will allow live cells to be 3D printed and used as a material for treatments. The goal of this innovative solution is to repair cartilage loss which leads towards burdensome joint deformity and facial disfigurement from ear and nose loss. Formed around the Australia's only hospital-based bioengineering research and translation institute (Aikenhead Centre for Medical Discovery), this programme will bring together leaders from class-leading hospitals (St Vincent's Melbourne, Royal Prince Alfred), biomedical universities (Melbourne, Sydney), top scientists at the forefront of bioengineering innovations (Wollongong, Swinburne, RMIT University) and experts in addressing the socio-ethical dimensions of regenerative medicine innovation (Monash, Swinburne, University of Melbourne and Toronto) to develop and deliver ethical and patient-centred models of point of care manufacturing and delivery of cartilage-based stem cell therapy. ARISTOCRAT is presenting a paradigm shift in healthcare of cartilage injury, degeneration or absence, that will revolutionize the way we think about personalized care, patient involvement and scientific advancements.

**EVALUATION OF JESUIT SOCIAL
SERVICES PROGRAMS****Naomi Pfitzner (MGFVPC, SoSS)****Jesuit Social Services (JSS)**

The project will provide expert advisory service for evaluation of two programs run by JSS, "Unpacking the Man Box" and "Modelling Respect and Equality". Both programs will be delivered to schools teachers in 100 Victorian schools and aim to build people's skills and knowledge to help them create change around issues of respect and equality, particularly among boys and men.

**BUILDING A FOUNDATION FOR
COLLABORATION ON GENDER
EQUALITY: KOREAN-AUSTRALIAN
CONNECTIONS****Ellen Cho, Marie Segrave, Siru Tan, Stefani
Vasil and Kate Fitz-Gibbon (MGFVPC and
Criminology Program, SoSS)****Department of Foreign Affairs and Trade**

This project will bring together 12 researchers and advocates on gender in/equality as part of a larger partnership project which seeks to build a foundation of knowledge exchange and collaboration between South Korea and Australia through the development of a collaborative research network in gender equality research, education, and practice.

Activities scheduled for the South Korean delegations' visit in February 2023 will create evidence-based outcomes of people-to-people links, as described in the recent Australia-Korea Comprehensive Strategic Partnership. The project outcomes will be made available to the wider audience in both Korean and English.

**GENERATION OF FINGERSPELLING
IN AUSTRALIAN SIGN LANGUAGE
(AUSLAN)****Louisa Willoughby (LLCL)****Telematics Trust**

Collaborating with Monash Faculty of IT, the project will create the first Auslan fingerspelling generator to allow learners to view fingerspelled words signed naturally by an avatar. The generator will allow users to type any word in English and see the fingerspelled translation. The fingerspelled content will be interactive by allowing the user to rotate the view in 3D space and observe the fingerspelling from different angles. The generator will also be used as a core resource for Melbourne Polytechnic's Auslan program, and the strong uptake from Auslan programs around Australia is expected given the paucity of resources currently.

**FAMILY VIOLENCE AND VIOLENCE
AGAINST WOMEN: A SYNTHESIS OF
THE EVIDENCE****Bridget Harris (MGFVPC, SoSS)****Respect Victoria**

Led by Australian Institute of Family Studies, this project will synthesise the evidence on violence against women and family violence across a diverse range of populations and specific types of violence. 11 separate research summaries will be produced by a consortium of experts across diverse forms of violence. The Monash team will primarily contribute to the summary of "Online violence and harassment perpetrated against women". Key findings across these summaries will be synthesised to identify similarities and differences and their implications for primary prevention.

**GOVERNING COMMUNITY BASED
RESOURCES RECOVERY AND
CIRCULAR ECONOMY INITIATIVES****Ruth Lane (SoSS)****Department of Climate Change, Energy,
the Environment and Water (Australia)**

The project is a part of the National Environmental Science Program 2 – Sustainable Communities and Waste Hub, hosted by the University of New South Wales, and forms Sub-project 3 of the Impact Priority 5 (IP5) Waste Impact Management Research. In local governments and regional communities across Australia there are many 'bottom-up' initiatives relevant to transitioning to a circular economy (CE) with less waste, yet existing models for CE policy prioritise commercial actors and top-down approaches. Our research will develop an innovative networked governance approach to CE modelled on the Cities for Climate Change Program and informed by Jacquelin Cramer's work on 'How Networked Governance Powers the Circular Economy'. Insights and recommendations will be developed in collaboration with end users of the research to improve the local economy and mitigate the waste problem.

DFAT ISLAMIC AWARENESS COURSE**Susan Carland (SoSS) and Aydogan Kars
(SoPHIS)****Department of Foreign Affairs and Trade**

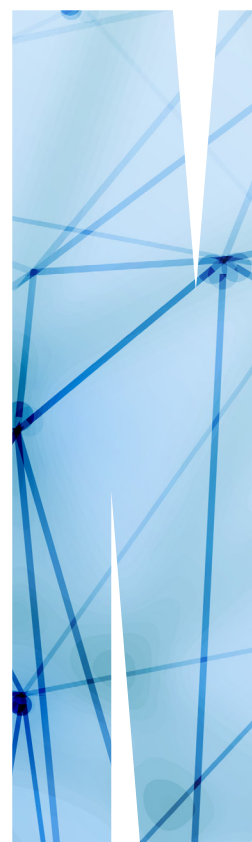
This project builds upon the success of the delivery commenced in 2018. The current contract is to continue to deliver the Islamic Awareness courses for DFAT graduate trainees, DFAT staff and Australian Public Service employees. The course will provide participants with a deeper understanding of the practice of Islam in society, politics and culture, thus developing their awareness of the value of Islamic traditions.

**ETHICAL GOVERNANCE FOR
CLINICAL AND GENOMIC DATA****Alan Peterson (SoSS)****MRFF - 2021 Genomics Health Futures
Mission**

This project aims to bring together leading researchers, patients and First Nations peoples to address pressing ethical, legal and social issues in the development and use of genomic datasets. Professor Alan Petersen is one of two sociologists involved in this project and will lead a stream of research to address social issues in the current governance of clinical and genomic datasets. The total award for this project, led by the University of Sydney, and in collaboration with 43 CIs from 20 Australian universities and research institutes, is \$5 million.

**INCLUSIVE SCIENCE LEADERSHIP
PROGRAM FOR EARLY-AND MID-
CAREER RESEARCHERS IN APEC
2022****Karla Elliott (SoSS)****Asia-Pacific Economic Cooperation
(APEC)**

In line with the theme of APEC 2022, "Open, Connect, and Balance", the program aims to provide a platform for early-and mid-career researchers to ideate and build leadership capacity in tackling issues related to Bio-Circular-Green economy. The awarded researchers are expected to gain further skills on how improved connectivity enhances the promotion of open and inclusive science ecosystems as well as the balance of multiple responsibilities and competing interests.

**DELIVERING RESEARCH INTO
AUSTRALIAN USER EXPERIENCE
WITH CONTROL FEATURES ON
SOCIAL MEDIA SERVICES AND
DATING PLATFORMS**

Asher Flynn, Bridget Harris, Brady Robards, Zarina Vakhitova and Lisa Wheildon (Criminology and Sociology Programs and MGFVPC, SoSS)

Department of Infrastructure, Transport, Regional Development, Communications and the Arts (Australia)

The project aims to understand the existence, extent of awareness, and Australian users' views on the effectiveness of user control features that impact their exposure to harmful or age-inappropriate content online. The project findings will be of direct benefit to the Department in better understanding how Australians use social media services and digital dating platforms' control and safety features, and what further strategies are needed to improve awareness of these features and their effectiveness.

**TACKLING BIODIVERSITY LOSS HEAD
ON**

Benjamin Thompson (SoSS)

Australia Red Cross Society

Led by AirSeed Pty Ltd, this project will take an applied socioeconomic research approach to understand how ecosystem restoration via drones can support livelihoods, build local confidence, support ecosystem resilience, and help address the social and environmental drivers of flood disasters in the Lismore and Ballina LGAs, NSW. It aims to help at-risk communities around Lismore in decision making for restoring biodiversity and support community resilience-building after natural disasters.

PAPER & TALK 2.0

Alice Gaby (LLCL)

Department of Infrastructure, Transport, Regional Development, Communications and the Arts (Australia)

Led by Living Languages, the project aims to support Aboriginal people in repatriating language materials to revitalise their languages including the opportunity for Community Researchers to work with archives, linguists and trainers to build skills in research, linguistics, and navigating archival collections, and then use the materials discovered to develop new language resources.

**BUILDING A FOUNDATION FOR
COLLABORATION ON GENDER
EQUALITY: JAPANESE-AUSTRALIAN
CONNECTIONS**

Ellen Cho, Marie Segrave, Siru Tan, Stefani Vasil, Kate Fitz-Gibbon (MGFVPC and Criminology Program, SoSS)

Department of Foreign Affairs and Trade

This project will bring Japanese academics to Australia and seek to build a foundation of exchange and collaboration between Japan and Australia as part of a larger partnership project through the development of a collaborative research network in the area of gender in/equality; and comes after the Australia-Japan Leaders Meeting Joint Statement in January 2022 reaffirmed a shared commitment to human rights in our region. The project outcomes will be made available to the wider audience in both Japanese and English.

**ENCOUNTERS WITH POLAND:
FOSTERING A DEEPER
INTERCULTURAL UNDERSTANDING**

Daniel Heller and David Slucki (Australian Centre for Jewish Civilisation, ACJC, SoPHIS)

The Alan and Elizabeth Finkel Foundation

The project aims to support research collaboration between ACJC and University of Wroclaw (Poland) to create an academic scholars' exchange program and enable both Universities to provide the students with immersive, intercultural learning opportunities. Joining together to research and recover the lost voices of East European Jewry this support will enable participating scholars to have a greater impact on Australian and Polish civil society by promoting the values of tolerance, empathy and understanding.

**PREVENTION, DISRUPTION,
INVESTIGATION OF AND RESPONSE
TO DOMESTIC AND FAMILY VIOLENCE**

Bridget Harris (MGFVPC, SoSS)

Queensland Police Services (QPS)

QPS has a critical policing role in the prevention, disruption, response to, and investigation of domestic and family violence and aims to run a training program to the relevant QPS members in this regard. The Monash team will co-design, develop and co-deliver the content specific to technology facilitated abuse.

**ETHICAL, SOCIAL, AND REGULATORY
ISSUES RELATING TO THE USE OF
MACHINE LEARNING FOR EMBRYO
SELECTION**

Molly Johnston, Julian Koplin, Catherine Mills (Monash Bioethics Centre, SoPHIS) and Andrea Whittaker (SoSS)

Ferring Pharmaceuticals Pty Ltd

Machine learning holds enormous promise for improving the selection of human embryos for transfer after IVF. However, ethical and regulatory analysis has not kept pace with the technology. This project will conduct the first systematic collection of data on the views of the use and implementation of machine learning for embryo selection and will identify and analyse the related key ethical, social and regulatory issues. Expected outcomes of the project include recommendations that will promote the ethically robust, clinical implementation of machine learning for embryo selection into Australian and international clinical practice.

**ANU AUSTRALIAN STUDIES
INSTITUTE VISITING FELLOWSHIP
PROGRAM**

Kate Fitch (MFJ)

The Australian National University

The project aims to offer new insights into women and promotional work during the past-war boom by investigating the career of Phyllis Parkinson, who established a public relations consultancy in the 1950s and worked closely with the Australian wine industry to promote wine. The findings will contribute to a larger cultural history and provide a stronger and historically informed understanding of feminised labour and consumption in promotional work.