



National Institute of Demographic and Economic Analysis

Te Rūnanga Tātari Tatauranga

THE UNIVERSITY OF WAIKATO

Annual Report 2020

Private Bag 3105, Hamilton, New Zealand 3240

<http://www.waikato.ac.nz/nidea>

Phone: +64 7 8384040 Email: nidea@waikato.ac.nz



THE UNIVERSITY OF
WAIKATO
Te Whare Wānanga o Waikato

NIDEA's Mission Statement

NIDEA undertakes research at the interface of population and economics to help inform choices and responses to the demographic, social and economic interactions that are shaping New Zealand's future.

NIDEA seeks to address the population-economy interface by:

- modelling the effects of demographic and economic change at global, regional and national scales on long-term social transformation, competitiveness and productivity
- conceptualizing, measuring and evaluating options for enhanced wealth creation and general wellbeing in an increasingly diverse ageing society
- researching migration and the transnational dimensions of New Zealand's population and economy in Oceania
- enhancing understanding of the patterns, causes and consequences of regional social, economic, and ethnic diversity and disparity within New Zealand.

Underpinning these research programmes are three founding principles that permeate all aspects of NIDEA's activities:

- to produce innovative and consequential knowledge at the nexus of population and economy
- to provide a bridge between new knowledge and its practical application in policy and business environments
- to build research capacities in the areas of demography and economics that will secure the reproduction of research excellence in critical areas of social inquiry.

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Annual Report from the Director

Welcome to the 2020 annual report of Te Rūnanga Tātari Tatauranga, the National Institute of Demographic and Economic Analysis.

The past year has been characterised by significant disruption generated by the emergence and spread of Covid-19 and the effects of public health controls that governments around the world have put in place to reduce or eliminate spread. The pandemic has caused devastation internationally, leading to millions of deaths, significant illness and severe social and economic implications. For NIDEA and other parts of the university the pandemic has disrupted planned research, required us to shift teaching online or into flexible arrangements, limited face to face interaction, and had considerable budgetary implications as the university faces a downturn in international student enrolments. The pandemic has also drawn attention to new possibilities, not least the capacity to work flexibly and remotely where that is feasible and the potential to carry out international collaboration on video conferencing platforms and other online environments. NIDEA researchers have also been focused on the pandemic in their service and research, taking on advisory roles in government responses and in contributions to academic dialogue on the present and future implications of the pandemic.

In November 2020, NIDEA marked 10 years since its establishment as an institute, bringing together the significant expertise that had been established in population studies and migration within the University of Waikato over the previous three decades. Since its establishment in 2010, NIDEA has maintained a significant national and international reputation for excellence in a wide range of population research. As our mission statement makes clear, NIDEA has always aimed to “inform choices and responses to the demographic, social and economic interactions that are shaping Aotearoa New Zealand's future”. Over the last decade, NIDEA has also broadened its scope and increasingly we are also focusing on research that is explicitly transformational, aimed at driving national debate and seeking change in areas of critical need for Aotearoa New Zealand. Indeed, our research now expands to include the study of a range of population dynamics as well as research that addresses wicked challenges like homelessness, data sovereignty, racism, health inequalities, migrant exploitation, forced migration and refugee resettlement, to name just a few.

At the end of 2020, NIDEA bid farewell to our colleagues in the Medical Research Centre. Established as a group of medical researchers and co-located with NIDEA since 2016, the Medical Research Centre has played a significant role in establishing and growing expertise in

medical research at the University of Waikato. Their programme of research has been particularly significant in relation to lung, bowel and breast cancers, diabetes, orthopaedics and rural health. From 2021 onwards, the Medical Research Centre will join Te Huataki Waiora School of Health in the Division of Health, Engineering, Computing and Science. We wish the medical team all the best as they continue to build a platform for medical and health research at the University of Waikato and we look forward to ongoing opportunities for collaboration.

As this annual report documents, NIDEA researchers continue to be highly productive and impactful in their areas of expertise. Collectively, researchers at NIDEA and the Medical Research Centre published 42 journal articles, 13 chapters, 4 books and gave dozens of conference presentations including many keynote and invited talks. The variety of these outputs and their contribution to advancing knowledge in Aotearoa New Zealand and internationally demonstrate NIDEA's ongoing position at the forefront of multidisciplinary population research.

I hope that you enjoy reading this annual report and learning about NIDEA's recent activities.

A handwritten signature in black ink, appearing to read 'F. Collins', with a small mark at the end of the line.

Professor Francis L. Collins

NIDEA Directorate - Staff

Director

Professor Francis Collins BA, BA(Hons), MA, PhD *Auckland*

Professors

Professor Tahu Kukutai BA BA(Hons) MSocSc *Waik* MA PhD *Stanford*

Associate Professor Polly Atatoa Carr MBChB, MSc, MPH, FNZCPHM

Professor Ross Lawrenson, Professor of Population Health MBBS, MD; DRCOG; Dip.Comm Health *Otago*; FP Cert; DHMSA; FAFPHM; FFPH; FRCGP

Emeritus Professors

Professor David Ian Pool CNZM BA MA *NZ* PhD *ANU* FRSNZ

Professor Richard D. Bedford QSO BA MA *Auck* PhD *ANU* FRSNZ

Professor Peggy Koopman-Boyden CNZM BA MA DipEd *Massey*

Professor Jacques Poot Drs *VU Amst* PhD *Well* HonFRNAAS MAE FRSAI

Senior Research Fellows

Dr Arama Rata BSc (Hons), PhD *Victoria*

Dr Lynne Chepulis (Medical Research Centre) BSc, MSc, Mphil, PhD

Dr Chunhuan Lao (Medical Research Centre) BSc, MSc, PhD

Rawiri Keenan (Medical Research Centre) MBChB, FRNZCGP

Senior Lecturer

Dr Yara Jarallah BA *Birzeit University*, MSc *American University Beirut*, PhD *Brown University*

Research Fellows

Dr Tania Blackmore (Medical Research Centre) BSocSci, MSocSci, PhD

Dr Shemana Cassim (Medical Research Centre) BSc; MAppPsys(Comm); PhD

Jonathan Kilgour MBA (Dist), LLM (Hons), BSocSc

Dr Ryan Paul (Medical Research Centre) BHB MBChB FRACP PhD

Senior Research Officer

Shefali Pawar BE *Pune University* GradDip(Stats) *Waikato* MSocSc(Hons) *Waikato*

Research Officers

Moana Rarere BMS GradCert (SocPol) BSocSc(Hons) MSocSc(Hons) *Waikato*

Brittany Morison MSc, BAppSc (Medical Research Centre)

Mohana Mondal, BSc. (Economics) MSc (Economics)

Research Assistant

Mrs Leonie Brown RGON BSc (Medical Research Centre)

CaDDANZ Research Manager

Renae Dixon BSocS *Waik*

Personal Assistant to Professor Ross Lawrenson

Mrs Gillian Hunn (Medical Research Centre)

Administrator

Mrs Sheree Findon

NIDEA Associates and Research Associates

Dr Lars Brabyn BA(Hons) BSc(Hons) PhD *Cant*

Dr John Bryant BA BA(Hons) *Cant* PhD *ANU*

Dr Michael Cameron BMS(Hons) PhD *Waik*

Dr William Cochrane BSocSc MSocSc PhD *Waik*

Dr Andrew Coleman PhD *Prin*

Len Cook CBE BA(Hons) *Otago* CB

Prof Lynda Johnston BA *Otago*, MSocSc PhD *Waik*

Dr Naomi Simmonds BSocSc MSocSc PhD *Waik*

Prof Nicola Starkey BSc(Hons) *C.Lancs*, PhD *Leeds*

Dr Sarah Jane Tiakiwai MA(Hons) *Auck*, PhD *Waik*

Prof Iain White BA(Hons), Mtpl, MRTPI, PhD *Manchester*

Affiliates

AProf Per Axelsson MSocSc PhD *Umeå*, Researcher Cedar - Centre for Demography and Ageing, Umeå University

Dr Hayley Bennett MPH MBChB BHB *Auck*, Public Health Medicine Specialist OraTaiao: NZ Climate and Health Council

Dr Sarah Berry BSc MSc *Waik*, PhD *Virginia Tech*, Research Manager, Auckland War Memorial Museum

Dr John Bryant BA, BA(Hons) *Cant* PhD *ANU*, Statistics New Zealand

AProf John Campbell BA MA *Cant*, PhD *Hawaii*, formerly Geography Programme FASS

Prof Yves Charbit BA, MA *Paris-Sorbonne*, Dip Sciences *Po*, PhD *Oxf*, Doctorat d'Etatès-Lettres *Sorbonne*

Len Cook BA(Hons) *Otago* CBE, Victoria University of Wellington/ Families Commissioner SUPERU

Dr Robert Didham MSc *Cant* PhD *Tubingen*, Statistics New Zealand

Dr Natalie Jackson DipNZIMR, BSocSc, MSocSc *Waik*, PhD *Anu*, Natalie Jackson Demographics Ltd

Prof Te Kani Kingi MA *Waik*, PGDipReoMāori *Waiariki*, PhD

PGDipMaori *Massey*, Executive Director: Research and Innovation, Te Whare Wānanga o Awanuiārangi

Dr David Maré BA, BCom, MCom *Auck* PhD *Harvard*, Motu

Prof Philip Morrison MA *Well* PhD *Toronto*, Victoria University of Wellington

Prof Susan Morton FAFPHM, PhD GradDipPH *LSHTM*, BHB MBChB *Auck*, DipED , Director: Growing Up in NZ/Centre for Longitudinal Research, University of Auckland

Dr Lynda Sanderson BA, BSc *Cant* BCA *Well* MPhil, PhD *Waik*, MBIE/MOTU

Dr Janet Sceats MSc, LSHTM, PhD *Lond*, Medical demographer

AProf Victor Thompson BA *UIUC*, MA PhD *SU*, Director of Law and Justice Program, Rider University

Dr Liza Lack, BMedSci BM BS, MRCP, DRCOG, DCH, DFFPA, FRNZCGP, Honorary Research Fellow (Medical Research Centre)

Dr Steven Lillis, BHB, MBChB, FRNZCGP, Dip Sports Med, MGP Dip Strat Leadership, PhD FAcadMed, Honorary Senior Fellow (Medical Research Centre)

Tim Norman, Honorary Associate RGON (Medical Research Centre)

Professor Adam El Gamel MB BCh, FRCS, FRCS, FRACS (Medical Research Centre) Dr

Blaithin Page, FRC, MD, M.B.Ch.B MRCS, BSc (Medical Research Centre)

Associate Professor Jacqui Kidd, PhD, MN, BHSc DipNursing, (Medical Research Centre)

Background to NIDEA

The National Institute of Demographic and Economic Analysis (NIDEA) was launched on 24 November 2010; its mission to undertake research that will help inform choices and responses to the demographic, social and economic forces that are shaping New Zealand's future. Initially an informal collaboration of researchers at the University of Waikato's Population Studies Centre, Waikato Management School and Wellington-based Motu Economic and Public Policy Research Trust, NIDEA now links together a virtual community of leading national and international researchers working at the interface of demography and economics. NIDEA research supports and guides decision-making in a broad range of areas such as the labour market, healthcare, local government planning, housing and education, welfare, business enterprise and the market generally. NIDEA also contributes to the building of research capacity in the field through its undergraduate teaching, supervision of graduate and postgraduate students, workshops and seminars.

The Year in Perspective

Highlights

- NIDEA researchers are lead investigators in two major MBIE Endeavour fund research programmes awarded in 2020:
 - o Tikanga in Technology: Indigenous approaches to transforming data ecosystems (Tahu Kukutai)
 - o WERO: Working to End Racial Oppression (Arama Rata, Polly Atatoa Carr, Francis Collins)
- 22 externally funded research projects were hosted at NIDEA in 2020, and NIDEA researchers are involved in many more projects based in other parts of the University of Waikato and at other institutions
- NIDEA researchers and students published 42 journal articles, 13 book chapters and 4 books

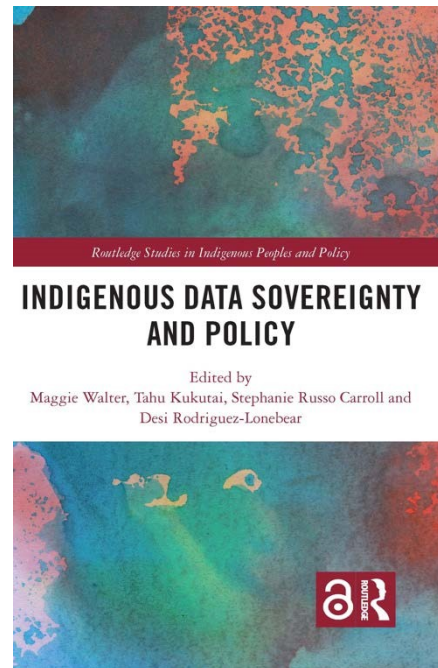
- There were 16 PhD students either studying within in NIDEA or supervised by NIDEA researchers in 2020

Featured Publications

Indigenous Data Sovereignty and Policy (Routledge)

- Edited by Maggie Walter, **Tahu Kukutai**,
Stephanie Russo Carroll, **Desi RodriguezLonebear**

This book examines how Indigenous Peoples around the world are demanding greater data sovereignty, and challenging the ways in which governments have historically used Indigenous data to develop policies and programs. In the digital age, governments are increasingly dependent on data and data analytics to inform their policies and decision-making. However, Indigenous Peoples have often been the unwilling targets of policy interventions and have had little say over the collection, use and application of data about them, their lands and cultures. At the heart of Indigenous Peoples' demands for change are the enduring aspirations of self-determination over their institutions, resources, knowledge and information systems. With contributors from Australia, Aotearoa New Zealand, North and South America and Europe, this book offers a rich account of the potential for Indigenous data sovereignty to support human flourishing and to protect against the evergrowing threats of data-related risks and harms.

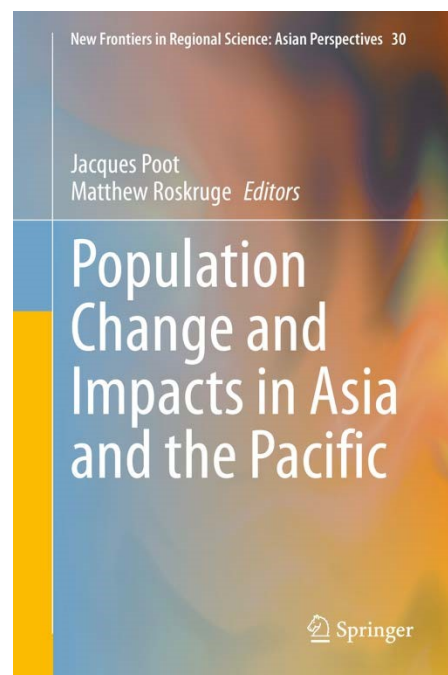


The Open Access version of this book, available at <https://www.taylorfrancis.com/books/e/9780429273957>, has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license

Population Change and Impacts in Asia and the Pacific (Springer)

- Edited by **Jacques Poot** and Matthew Roskrug

This volume brings together a range of contributions that provide contemporary regional science perspectives on population change and its socio-economic consequences in the Asia-Pacific region. This region accounts for close to two-thirds of the world's population and is highly diverse in terms of key demographic indicators such as population size, growth, composition and distribution. The authors provide quantitative assessments, either descriptively or by means of modelling, of important demographic issues affecting this part of the world. The topics addressed include: broad demographic trends across the Asia-Pacific region and its sub-regions; assessment of population decline, urbanization and spatial distribution using cases from China, Colombia, Japan and Australia; migration and economic impacts in Australasia, Chile and Timor Leste; and the impacts of declining or low fertility and population ageing in China, India, Thailand, and across Asia.



Research

NIDEA researchers have continued to be enormously successful, evidenced both in their work on a range of funded research projects as well as in publications and calls to participate in media debates. NIDEA staff published 42 peer reviewed journal articles, 13 book chapters and 4 books in 2020; other publications include commissioned reports, working papers and papers in conference proceedings. In addition, NIDEA staff gave 8 plenary or invited presentations in 2020 as well as contributing to wide range of international and national conferences, many delivered online as a result of Covid-19 related restrictions. Reflecting their visibility within and impact on local, national and international debates, NIDEA staff also appeared 34 times in the media during 2020.

NIDEA Seminar Series

NIDEA hosted four seminars in 2020, three of which were delivered online due to Covid-19 related restrictions. The seminars included:

- Emeritus Professor Jacques Poot (10 March 2020): Hometown and whānau, or big city and millennials? The economic geography of graduate destination choices in New Zealand
- Associate Professor Emily Kiddell (29 July 2020): Contextualising trends in baby removals in Aotearoa New Zealand: international patterns, inequalities, policy trends and practice logics
- Dr Kate Prickett (20 October 2020): Family economic and social wellbeing during and after the nationwide Alert Level 4 lockdown
- Dr Jesse Whitehead (24 November 2020): The spatial equity of GP services in the Waikato DHB: A mixed methods analysis

Recordings of seminars can be found on the NIDEA Seminar Series webpage:

<https://www.waikato.ac.nz/nidea/seminars>

Integrated Data Infrastructure Lab

The IDI (Integrated Data Infrastructure) continues to be widely used among NIDEA researchers and also researchers from other faculties at the University of Waikato and outside organisations such as the Ministry of Social Development. The Data Lab adjoins NIDEA offices and provides an enormously valuable and powerful resource for exploring population change. The IDI, and our ability to access microdata in the Data Lab, have become increasingly important as a wider range of statistical data has become available and also in the context of the delayed release of the 2018 New Zealand Census of Population and Dwellings.

Collaborative Health: The University of Waikato Medical Research Centre

The Medical Research team continue working on a wide ranging health research program that includes activities in Cancer Research, Diabetes, Orthopaedics/Rheumatology, Rural Health and General Practice. These activities have led to demonstrated outputs.

Achievements

Recognition for Ross Lawrenson 2020 Honorary Fellowship for Waikato Health expert

Ross Lawrenson, Professor of Population Health at the University of Waikato, has been awarded Honorary Fellowship of The Royal New Zealand College of General Practitioners. Honorary Fellowship is awarded to individuals of distinction who have made an outstanding contribution to general practice or the medical profession in general. Professor Lawrenson is already a Fellow of the UK Royal College of General Practitioners. The fellowship recognises Professor Lawrenson's unfaltering commitment to primary care research and rural health. He has a significant body of research into general practice and rural health, which has involved working with DHBs and experienced GPs as well as GP registrars.



Recognition for – Brittany Morison, Lynne Chepulis, Ryan Paul and Rawiri Keenan–



Our Waikato Diabetes Research Team, UoW who were finalists for the Kudos Science Trust - The Waikato DHB Medical Science award. Looking at better blood sugar control for our region's 25,000 diabetics is the Waikato Diabetes Research Team's goal. This joint University of Waikato/Waikato DHB initiative is examining both primary and secondary health services, aiming to streamline processes, address gaps and improve diabetes management, outcomes and equity of care. Its most recent large study (just one of the team's successes) gathered and analysed NZ's largest-ever database of real patient information, delivering valuable insights into medication access and use, barriers to good outcomes and the prevalence and impact of issues such as anxiety and depression. This informed a new primary care programme newlydiagnosed diabetics, which included culturally-appropriate support for Māori patients.

Key project: Hā Ora – Improving early diagnosis of lung cancer for Māori and rural communities

Our hypothesis is that a multi-pronged, community designed intervention will improve early detection and diagnosis for Māori with symptoms of lung cancer. Our aim was to understand the barriers to early diagnosis of Māori at risk of lung cancer. Through a series of community-based co-design processes with four localities (Ōpōtiki, Gisborne, Rotorua and Te Kuiti), we designed and implemented interventions to improve early presentation and diagnosis of at risk Māori.



The Medical Research team's four interventions are:

1. *The Hā Ora: Let's talk lung health website*, to improve awareness of lung-related ailments and provide information on local community support services.
2. *A Pou Pupuru Oranga/Cancer navigator*, to provide support and advocate for whānau diagnosed with lung cancer, and to help them navigate the cancer care pathway.
3. *A kaiawhina training programme*, involving upskilling kaiawhina and clinical staff through a series of workshops discussing lung cancer symptoms, diagnostic and treatment pathways.
4. *A series of lung cancer awareness videos*, featuring a community-composed waiata encouraging whānau to go and see a doctor if they have a persistent cough

Our HRC project has come to an end and has resulted in a number of publications. This has been an active research program in lung cancer in conjunction with the respiratory department in Waikato Hospital and the Midland Lung Cancer Steering Group. Our team took a kaupapa Māori approach with our leading Māori researchers working with 4 Māori providers including Whakatoeha Health, Maniapoto Health Trust, Turanga Health in Gisborne and Rauawaawa Kaumātua Trust. As well as our HRC funded study we are also working with Professors Mark Elwood and Mark McKeague of Auckland University on a study of EGFR testing in lung cancer. Our current study includes the development of a substantial lung cancer database which has led to an application for a further HRC project grant. We were shortlisted for consideration of this grant application worth \$1.2M with a decision expected in May 2020. As well as our publications in this field we have supported a Māori nurse in the completion of her masters, have won a summer student scholarship to look at the use of psycho-oncology services in patients with lung cancer and supported a Masters student in Public Health.

Lung Cancer

Overall lung cancer survival in NZ is poor especially for Māori. This is because lung cancer is typically diagnosed at a late stage once a patient has presented with symptoms. The reasons for late diagnosis can be due to both patient and health system factors. Both need to be addressed in order to improve survival.

Bowel Cancer

Bowel cancer is one of the most important causes of cancer death in New Zealand (NZ). We have both a very high incidence of bowel cancer and also poor outcomes compared to other high income countries. Much of the cause of our poor performance is that NZ patients with bowel cancer tend to present with more advanced disease. The cause of late diagnosis of bowel cancer is not well documented. The PIPER project showed that 35% of patients with newly diagnosed bowel cancer had presented to the ED department rather than through their general practitioner and for Māori this was nearer 50%. Research from overseas has shown that delays in bowel cancer diagnosis can be due to patient factors, tumour factors, or system problems. DHBs have focused strongly on improving the hospital system through the faster cancer treatment pathway after a patient's referral into the hospital from primary care. Our project has focused on the patient pathway from the development of symptoms to referral by their general practitioner into the hospital system and how DHBs handle those GP referrals.

I would like to thank all the patients that have participated in this project and the staff at Waikato, Lakes and Tairāwhiti District Health Boards that have given their time and expertise in supporting this study. I would like to recognise the contribution to cancer services in general that our colleagues in the Midland Cancer Network have made and wish them well in their new role with the National Cancer Agency. I would like to thank our analyst colleagues, particularly Sheena and Lucia Moosa for their help with the e-referral and Midland Cancer data. We would also like to thank our community colleagues, Hei Pa Harakeke, the Waikato Bay of Plenty Cancer Society, and NZ Bowel Cancer Group.

Finally of course I would like to thank all my co-investigators and staff on this project and the Health Research Council (HRC) for supporting this study. We hope you find this report informative and that our recommendations will help improve the pathways for bowel cancer in the future.

Breast Cancer – We continue to work with Prof Ian Campbell on breast cancer.

Dr Lao appointed Mohana Mondal who started in May assisting with the analyses on her HRC grant looking at the costs of breast cancer care (HRC 19/488). As well as continuing on other studies looking at outcomes from metastatic breast cancer. program grant with her into the role of co-morbidities in cancer care using the example of diabetes and breast cancer outcomes.

Prostate Cancer – Dr Tania Blackmore was awarded an HRC Research Activation grant to evaluate a prostate cancer health literacy program currently offered at Waikato DHB to help men to better understand their prostate cancer and treatment. This research also aims to inform future

delivery of the health literacy program and further understand how best to provide health literacy and psychosocial support for men with prostate cancer in future.

Diabetes – with the appointment of Dr Ryan Paul the Medical Research Centre has begun to develop a program of work particularly in the field of gestational diabetes and the management of type 2 diabetes in General Practice. This research has been undertaken in close collaboration with Dr Justina Wu the Clinical Director of the Waikato Regional Diabetes Service. We have been successful in attracting funding to support this research including the appointment of a summer student.

Orthopaedics – applications and work continue in conjunction with both the orthopaedic and rheumatology departments at Waikato Hospital we have undertaken a number of studies and completed our small grants from the Waikato Medical Research Foundation. These collaborations have led to a number of publications. Nicola, research fellow in orthopaedics left during the year working Mr Jo Baker from Waikato Hospital.

Rural health – We continue to be involved in rural health research. I am the co-supervisor of Associate Professor Garry Nixon of his MD study in rural health which has now been completed. In conjunction with A/P Nixon Ross Lawrenson is joint investigator on an HRC project grant on rural health, with Jesse Whitehead, who Ross is co-supervised for his PhD.

Externally Funded Research

NIDEA's staff devote the majority of their time to research. This includes actively seeking new grant applications and on-going or new funded programmes from major external funders: Health Research Council (HRC), Ministry of Business, Innovation and Employment (MBIE), and the Marsden Fund Council. NIDEA's researchers also participate in a number of commissioned reports and consultancies. NIDEA staff have also been actively involved in the National Science Challenges (NSC), not only as collaborative research partners, but also as invited members on management panels.

WERO: Working to End Racial Oppression

Ministry of Business Innovation and Employment Endeavour Fund, 2020-2025
Waikaremoana Waitoki (Science Leader) NIDEA Staff: Arama Rata, Francis Collins,
Polly Atatoa Carr

Racism, as a social structure that underpins forms of interpersonal and institutional discrimination, has had deleterious effects on Aotearoa New Zealand, evident in inequitable outcomes across almost every indicator of wellbeing, including those within health, education, housing, employment and justice. Working to End Racial Oppression is an interdisciplinary research programme that investigates the costs of racism, the systems that produce and reproduce racism, and transformative responses to reduce racism.

In addition to collating and communicating extant evidence of racial inequalities across multiple domains, the costs of racism will be investigated through specific projects analysing: income distribution over time; employment outcomes; housing disadvantage; geospatial segregation and exposure to environmental risk; and the impact of racism on health education and training, and health systems.

Systems through which racism is (re)produced will also be identified through analyses of: the settler colonial racialisation of differentially positioned communities of colour (including tangata whenua, tangata Moana, and migrants of colour); the maintenance of settler colonial narratives through national commemorations; the role of privileged populations in excluding racialised minorities; the significance of employment and housing systems in maintaining inequalities; and the role of technologies (e.g. social media) in exacerbating inequalities.

Finally, responses to racism will include (but not be limited to) the development and dissemination of: toolkits to audit and address institutional racism; protocols to promote inclusive online communication; strategies for building relationships between racialised communities; and guidelines for the ethical remembering of New Zealand history.

The programme assembles knowledge experts in Māori studies, health, Pacific studies, immigration, economics, data science, human geography, sociology and psychology, and will amplify innovation by bringing these knowledge systems into dialogue, towards the transformational long-term agenda of ending racial oppression in Aotearoa.

Tikanga in Technology

Ministry of Business, Innovation and Employment, Endeavour Fund, 2020-2024.

NIDEA Staff: Tahu Kukutai

Tikanga in Technology (TiNT): Indigenous approaches to transforming data ecosystems focuses on how tikanga Māori (customary protocols) and Mātauranga Māori (Indigenous knowledge) can inform the construction of digital identities and create a better understanding of relational responsibilities to data. TiNT is the first large multi-year Indigenous data sovereignty project and builds on several years of IDSov research undertaken by Professor Tahu Kukutai and colleagues. The three research strands focus on Indigenous data in governance, Indigenous data in systems, and Indigenous data in Artificial Intelligence. The interdisciplinary programme will explore tools and processes that can help IT workers understand and incorporate Indigenous perspectives when working on data sets, not only in terms of storage and data processing but also in the creation of algorithms that have the potential for bias. TiNT has strong support from key data stakeholders across Te Ao Māori and Government. The research team includes University of Waikato researchers Associate Professors Maui Hudson (Te Kotahi Research Institute) and Te Taka Keegan (Computer Science), as well as anthropologist Associate Professor Marama Muru-Lanning, economist Dr Jason Mika, privacy scholar Professor David Watts and cryptographer Dr Vanessa Teague.

CaDDANZ: Capturing the Diversity Dividend of Aotearoa/New Zealand

Ministry of Business Innovation and Employment Endeavour Fund, 2014-2021 NIDEA

Staff, Associates and Affiliates: Francis Collins (Science Leader), Tahu Kukutai

(Key Researcher), Arama Rata (Key Researcher), Renae Dixon (Project Manager)

NIDEA Associates and Affiliates: Lars Brabyn (Key Researcher), Michael Cameron (Key Researcher), Natalie Jackson (Key Researcher), Dave Mare (Key Researcher)

CaDDANZ investigates how Aotearoa New Zealand can better prepare for, capture and maximise the benefits of an increasingly diverse population. The research measures, maps and analyses the complex societal impacts of diversity and the implications for businesses, households and communities of mobility, migration, indigeneity, ethnic identity, demographic change (including structural ageing and fertility) and urban/regional disparities. A significant component of the research is concerned with the implications of diversity for Māori and with how Māori engage with diversity. The research programme is comprehensive, multi-phased and organised around three themes: ethno-demographic diversity; societal impacts and opportunities; and institutional implications and responses.

Throughout 2020 the CaDDANZ research team have been actively publishing the final outputs of their research findings as the project draws to a close. CaDDANZ was granted a COVID-related six-month extension from our funder MBIE. This has enabled the team to be active in the COVID-19 response field and facilitated further engagement in the community and policy space. In particular, significant media commentary was given by members of the team around

the impacts of COVID-19 on immigration in general, and for Māori and people holding temporary migrant visas. Commentary was given via a range of media channels from TV and radio stations to print media; Professor Tahu Kukutai participated in a COVID-19 Conversation with Prime Minister Jacinda Ardern about the impact on Māori and Pacific communities on Facebook live.

In total the team have published four reports, 12 journal articles, 11 books or book chapters, and 5 project briefs over the last year. In addition the team held their final hui at Waikato Tainui Research College at Hopuhopu in late 2020. This was an opportunity for the team to come together to share the highs and lows of a cumulation of six years of research and to consolidate key findings to be published in our meta-synthesis. This concluding publication will be available on our website www.caddanz.org.nz in early-mid 2021.

As the project draws to a close on 31st March 2021, the CaDDANZ team would like to thank the range of stakeholders, end users, contractors, students, researchers, community organisations, government agencies and publishers who all played a role in the successful execution of the project.

Nation and Migration: population mobilities, desires and state practices in 21st century Aotearoa/New Zealand

Rutherford Discovery Fellowship, Te Apārangi Royal Society of New Zealand, 2015-2021

NIDEA Staff: Francis Collins, Richard Bedford

In a context of increasing temporary and circular migration, there is evidence that the relationship between nation and migration is being reworked in ways that challenge our conceptions of the stability of national populations and the capacity for the state to influence national futures. This programme of research re-examines the relationship between nation and migration in this context of increasing mobility, temporariness and circularity through three studies that address the changing patterns of migration into New Zealand, the trans-Tasman mobility of New Zealanders, and the role of migration in governmental imaginings and enactments of national futures.

Counting our Tūpuna Marsden

Fund, 2017-2020 NIDEA Staff:

Tahu Kukutai

In 2020, Professor Tahu Kukutai continued work on her Marsden Fund project 'Counting our tūpuna' which investigates the impacts of land alienation and settlement on Māori population size, structure and survivorship during the peak decades of colonisation. Working alongside Ngāti Tiipa, a Waikato hapū/iwi, the project combines family reconstitution methods, oral history, and whakapapa knowledge to try and identify all Ngāti Tīpa tūpuna (ancestors) between 1840 and 1900. It is the first attempt at full population reconstruction in Aotearoa New Zealand. Consistent with Māori data sovereignty principles, all of the data sources and interviews with kaumātua have been digitised for a digital archive to be owned and controlled by Ngāti Tiipa. The interdisciplinary project team includes Prof Kukutai, historian Dr Nepia Mahuika, anthropologist Dr Des Kahotea, statistician Dr John Bryant, technologist Vanessa Clark, kaumātua Karu Kukutai, kaiarahi/facilitator Heeni Kani and MA student Denise Ewe. In 2020 Prof Kukutai and colleagues presented their work at the virtual international Indigenous Research Conference.

Promising Futures - Kia Whakapiri Mai: Bridging the home and away divide to enhance engagement

Ngā Pae o te Māramatanga (NPM) Research Platform, 2018-2020

NIDEA Staff: Arama Rata

This NPM Platform Project is building an understanding on how to build stronger, more connected iwi, through enhancing engagement with Māori governance entities. Contemporary Māori governance entities are tasked with representing, supporting, and distributing resources to their members. However, these members may be disengaged, and live a great distance from entity headquarters. Current demographic trends show that the emptying of the regions in favour of the major urban centres will continue, prompting the question: how can contemporary Māori governance entities curb the legacy of colonialism and strengthen engagement with all their members, regardless of where they're living? In this platform project we are exploring,

through qualitative interviews, how Māori governance entities engage with their affiliates. We are then partnering with one tribal governance entity and developing an indepth demographic profile of the iwi they serve, based on census and iwi register data, to determine the extent of the entity's engagement with tribal affiliates. Finally we are surveying the members of our partner tribal governance entity to co-construct an engagement strategy tailored to the entity.

Impact Evaluation of the KidsCan Early Childhood Pilot Programme

KidsCan, 2019-2020 NIDEA Staff: Polly Atatoa Carr

KidsCan is developing an initiative to extend its provision of food, clothing and health products to early childhood centres. The aim of the KidsCan programme is to “increase sustained participation at ECEs for children in material hardship by supporting families in removing the material hardship barriers to participation”. By supporting sustained participation in ECE it is hoped the children's learning will be enhanced, which in turn should support their achievement when they go to school. The KidsCan programme in the ECE environment includes a food programme, designed in partnership with the Heart Foundation, a Health programme and clothing (particularly shoes and raincoats). In partnership with staff in Te Oranga (the School of Human Development and Counselling), Assoc. Prof Atatoa Carr is working on a summative evaluation contract to determine the value of KidsCan in the ECE setting, and also to evaluate the developmental process of this programme in order to enhance progress. This connects particularly with her research and practice considering health and wellbeing outcomes, and population child health equity, through action outside of the specific health care sector.

What are the housing-related experiences of families with young children in New Zealand today?

Ministry of Social Development: Children and Families Research Fund, 2019-2020 NIDEA Staff: Polly Atatoa Carr

This research involves a partnership between Associate Professor Polly Atatoa Carr, the Growing Up in New Zealand (GUiNZ) team at the University of Auckland and Housing New Zealand (HNZ) to combine expertise, administrative and GUiNZ data and analytics to better understand the housing environment New Zealand children experience, particularly those in rental accommodation and in low income families.

The overarching aim is to determine the housing-related environment for families with young children in New Zealand throughout the critical early years, drawing on information (on

housing tenure, child context, and child and whānau outcomes) collected throughout the first seven years of the GUiNZ longitudinal study. Associate Professor Atatoa Carr was the Associate Director of GUiNZ prior to moving to NIDEA, and remains the lead investigator of the Culture and Identity Domain of this significant multidisciplinary research programme.

This research connects to Associate Professor Atatoa Carr's, and NIDEA's, research focus on the societal, community, cultural and environmental context of population outcomes, health equity, and research translation into policy and programme outcomes through partnership with community agencies such as Housing New Zealand.

He Pā Harakeke: Thriving Regions

Building Better Homes Towns and Cities National Science Challenge, MBIE, 2020-2024
NIDEA Staff: Jonathan Kilgour, Moana Rarere

He Pā Harakeke is comprised of three workstreams: Matariki Hunga, Matariki Ahunga Nui; Whakamanahia te Rangatiratanga o Mana Whenua; and He Raraunga Hapori. The first is a project focused on developing four case studies in the Hawkes Bay; and projects two and three are an integrated project in the Waikato, focusing on Pōkeno and Waharoa. The programme team consists of Jonathan Kilgour, Kym Hamilton, Dr John Ryks, James Whetu, Amy Whetu, Moana Rarere, Aramanu Ropiha and Haupai Montgomery.

He Pā Harakeke is focused on developing Māori perspectives of regional regeneration. The project principally aims to amplifying Māori aspirations in local and regional development and to understand how existing systems can empower those aspirations. We are also concerned with the vulnerability of Māori communities in the regions considering the disproportionate social, economic, cultural and environmental impacts on Māori communities. This project is looking at the relationships between regeneration aspirations, regional planning, Māori design and community outcomes, Covid-19 recovery and related social, cultural and economic impacts through a range of regional data, regional development activities and Kaupapa Māori case studies.

Key outputs from the project will include toolkits for mana whenua and local governments; policy advice; and dissemination through academic articles and webinars.

This project is connected to the South Island arm of Thriving Regions (led by researchers at AgResearch and Lincoln University). As a whole, both projects aim to reveal what practical

approaches are most effective at creating real-world change in different community, settlement and regional settings, and document examples where residents, local governments, community groups, and businesses have collaborated to create change.

Does a Whānau Ora approach improve outcomes for hospitalised tamariki?

Health Research Council Rangahau Hauora Māori, 2017-2021 NIDEA

Staff: Polly Atatoa Carr, Rebekah Graham

This research aims to measure the impact of a comprehensive and holistic Māori approach to assessing and addressing needs for children and their whānau within the paediatric department at Waikato District Health Board (DHB). The proposal builds on the existing collaboration between NIDEA, Te Puna Oranga (Māori Health) at the DHB, and Waikids, and involves Dr Bridgette Masters-Awatere in Community Psychology at the University of Waikato. A Whānau Ora assessment instrument (the Harti Hauora Tamariki, HHT) tool has been developed, and currently paediatric patients and their whānau are being randomised into the HHT intervention in order to determine the level of unmet need identified and assess the ability of the HHT to improved whānau outcomes and reduce hospital readmissions for tamariki Māori. In 2018 Drs Masters-Awatere and Graham conducted qualitative interviews of whānau with children who had required a hospital admission, and further assessment of their narrative; the quantitative impact assessment of the HHT tool is expected in 2019.

Costs of Breast Cancer

Health Research Council Breast Cancer Foundation, 2020-2021 NIDEA Staff (Medical Research Centre): Chunhuan Lao, Ross Lawrenson

Breast cancer is the most common cancer in women in New Zealand, and the incidence has been increasing steadily. The growing incidence has placed a substantial economic burden on the healthcare system. The Ministry of Health demonstrated that breast cancer is the most expensive cancer to treat at \$76.8 million a year excluding the \$42 million a year of running BreastScreen Aotearoa. In 2008, the mean price per case of breast cancer was estimated to be \$28,074. This report was produced based on the 2008 data when patients received less effective chemotherapy treatment compared to the current regimes. This report estimated the economic burden of all cancers in New Zealand but lacks detailed information for breast cancer. An up-to-date and more detailed report of the costs associated with breast cancer is needed.

Variations in the management and outcomes of women with metastatic breast cancer

Breast Cancer Foundation NIDEA Staff (Medical Research Centre): Chunhuan Lao

There are great variations in the clinical course (including pattern of metastatic spread), treatment and outcomes of women with metastatic breast cancer. This project aims to 1) demonstrate the management and outcomes of women with metastatic breast cancer, 2) examine the influence of age, comorbidities, social deprivation and ethnicity, and 3) explore the difference between women with de novo metastatic breast cancer and women with recurrent metastatic disease. The first part of this project found that the survival for patients with MBC in New Zealand is very similar to other developed countries. Patients with de novo metastatic breast cancer (dnMBC) had a much better prognosis than those with recurrent metastatic breast cancer (rMBC). Patients with triple negative disease or non-luminal HER2 positive disease had the worst prognosis. The prognosis for patient with rMBC improved the longer the time from diagnosis to the development of metastases.

Barriers to Screening for Diabetes in Pregnancy in the Waikato Region

Waikato Medical Research Foundation NIDEA Staff (Medical Research Centre): Lynne Chepulis, Ryan Paul and Brittany Morison

Diabetes in pregnancy (DiP) is associated with complications for both mother and child, and current statistics suggest that 1 in 11 pregnancies in New Zealand are affected, including a disproportionate number of Māori. However, until recently in New Zealand screening for DiP has varied widely in opinion and practice, and little is currently known about the adherence to Ministry screening guidelines, nor what the barriers / enablers are that prevent / allow for screening and timely diagnosis. This is a mixed methods study which aims to comprehensively evaluate screening for DiP in Waikato women using laboratory data for a cohort of up to 5000 Waikato women along with a series of semi-structured interviews with women and healthcare providers about their screening knowledge and experience.

Automated insulin delivery for type 1 diabetes utilising open-source technology” Health Research Council, 2019-2022

NIDEA staff (Medical Research Centre): Ryan Paul and Martin de Bock (PI - Otago)

Automated insulin delivery (or closed loop technology) for type 1 diabetes has heralded a new era of treatment, delivering improved glucose management and quality of life. While commercial systems are existent overseas, cost will be an ongoing barrier to access this

technology in New Zealand. However, an open access automated insulin delivery algorithm has been in development for years, but has previously required "hacking" of commercial insulin pumps, causing medicolegal concerns. A recent insulin pump innovation has opened the opportunity to utilize the open access technology, letting patients "close the loop" without voiding their insulin pump warranty. In this project we will compare glycaemic control, quality of life and health economics of this technology compared to standard insulin pump therapy in a multi-centred randomised controlled trial, in both children and adults with type 1 diabetes. Positive findings will lay the foundation for New Zealanders to access this life changing technology.

Cultural Competency and equity focused activities in primary care

Health Research Council

NIDEA Staff (Medical research centre): Rawiri Keenan

Dr Keenan is looking at cultural competency and equity in primary care and has the Foxley Fellowship. He started in Feb 2019 for two years. The research proposal says cultural competence is a skill and attitude essential to effective communication and therefore effective quality care. This is especially true in primary care/ general practice. All GP practices and staff in them have obligations for ongoing training and education in the areas of Cultural Competence and Treaty of Waitangi training. Additionally, all practices must have a Māori health plan. This project will review these activities reported on by GPs and practice staff as part of practice accreditation. It also looks at associated learning activities which form part of the GP training programme. Reviewing these activities will inform future recommendations on the training requirements of primary care teams.

Exploring Muslim migrant women's experiences of accessing primary healthcare

Waikato Medical Research Foundation Early Career Researcher grant, Jan-Dec 2020

NIDEA Staff (Medical Research centre): Shemana Cassim, Ross Lawrenson, Rawiri Keenan

This project will explore the experiences of Muslim migrant women in accessing primary healthcare. We aim to investigate how their navigation of a predominantly 'Westernised' primary healthcare system can affect the wellbeing of these Muslim migrant women, and explore the broader implications of the barriers or enablers they may encounter.

Monitoring and Evaluation of the Multicultural Affairs and Social Cohesion Division's (2018-2021)

(MASC) Family Violence Work Package (2018-2021) Victorian Department of Premier and Cabinet NIDEA Staff: Yara Jarallah (with Karen Block, Cathy Vaughan, Humaira Maheen, and Meghan Bohren from the University of Melbourne)

The overarching goal of the MASC Family Violence package is to promote safety from violence for women and families from culturally and linguistically diverse backgrounds. This project will develop, guide and oversee implementation of an overarching evaluation of the Family Violence Work package.

Faith Communities Supporting Healthy Family Relationships: a Participatory Action Research Project with the Multifaith Advisory Group

Victorian Department of Premier and Cabinet, 2018-2020 NIDEA Staff: Yara Jarallah (with Cathy Vaughan, Adele Murdolo, Humaira Maheen, Meghan Bohren, Regina Quiazon, Karen Block from the University of Melbourne and the Multicultural Centre for Women's Health)

This is a Participatory Action Research that involves two overarching phases- 1) a synthesis of the current evidence on promising and emerging practices related to building capacity of faith based organisations, faith communities and faith leaders to achieve social change to effectively prevent and respond to family violence and violence against women; and 2) support specified faith communities to translate evidence from phase (1) into a leadership capacity building initiative.

The MuSeS Project: Multicultural and Settlement Services Supporting Women Experiencing Violence

Australia's National Research Organisation for Women's Safety (ANROWS), 2017-2020 NIDEA Staff: Yara Jarallah (with Cathy Vaughan, Adele Murdolo, Regina Quiazon, Linda Murray, Lana Zannettino from the University of Melbourne, the Multicultural Centre for Women's Health, University of Tasmania and Flinders University)

This is a mixed methods project conducted in six geographic communities across three Australian states: South Australia, Tasmania and Victoria. It is conducted in partnership with the Victorian Foundation for the Survivors of Torture (Foundation House), Australian Red Cross, AMES Australia, and Australian Migration Resource Centre to inform strategies to supporting women experiencing family violence through multicultural and settlement services, including through specialist services for refugees who have experienced torture and trauma.

Popoia te kākano kia puawai: Family structure, family change and the wellbeing of tamariki Māori

Published by Ministry of Social Development. 2020

NIDEA Staff: Tahu Kukutai (PI), Polly Atatoa-Carr, Arama Rata.

Using data from the New Zealand Longitudinal Census and Growing Up in New Zealand, this report examines family structure and change for tamariki Māori, and their potential impacts on early childhood development and wellbeing. This is the fifth report that NIDEA has produced for the whānau wellbeing research programme that was established at Superu and is now led by MSD. Other reports have used data from the NZ Census and Te Kupenga wellbeing survey to examine whānau wellbeing indicators, concepts of whānau, self-reported whānau wellbeing, and housing quality.

An evaluation of a prostate cancer health literacy program

Health Research Council Research Activation Grant (2020-2021) NIDEA Staff (Medical research centre): Tania Blackmore, Teresa Akapita, Lynne Chepulis, Jacquie Kidd, Glenn Devcich, Michael Holmes, Ross Lawrenson

This project aims to evaluate the efficacy of a prostate cancer health information session currently offered to men newly diagnosed with prostate cancer at Waikato DHB. It will explore the current supportive care needs of men following their diagnosis and/or treatment, and analyse patient perceptions on the success and usefulness of the health literacy program in meeting their psychosocial needs in order to inform any future redevelopment of the health literacy program to ensure that the needs of all men are adequately met.

Internally Funded Research

Identifying barriers to glycaemic control in rural patients with type 2 diabetes mellitus in the Waikato region

University of Waikato Strategic Investment Fund 2019 NIDEA Staff: Ross Lawrenson, Lynne Chepulis, Chunhuan Lao

Type 2 diabetes (T2D) currently affects approximately 7% of all New Zealand adults, and these patients are generally managed in primary care, with input from specialist secondary care for diagnosis and treatment of disease complications. Currently, we know little about how well diabetes is managed in primary care, including how many patients complete the available Diabetes Annual Review that evaluates blood glucose control, disease risk factors and progression each year. This study will collect data from 15 general practices in the Waikato (including rural and urban) to quantify how glycaemic control and management of diabetes in primary care differs by patient age, gender, ethnicity, socioeconomic status and practice location. We will also undertake a qualitative study to evaluate what the patient-perceived barriers are towards appropriate diabetes care and self-management.

The Effect of Civil War and Forced Displacement on Syrian Refugees' Key Life Course Transitions

University of Waikato Strategic Investment Fund, 2020-2021 NIDEA Staff: Yara Jarallah (Primary Investigator)

To date, no research has been able to investigate the effect of war and forced displacement on key life course transitions of refugees due to lack of data. This project fills this gap by piloting the use of Life History Calendars (LHCs) to collect such data from the recently arrived Syrian Refugee Population in New Zealand (Dunedin). By focusing on the period of young adulthood—a period critical for human capital accumulation, the project is able to identify potential pathways that link civil war with marital and family formation behaviour through disruption to human capital formation in the form of school drop-out, unemployment, and displacement. Understanding this link improves our ability to tailor government programs where they are most needed especially considering evidence from non-refugee populations on the generational disadvantage and the intergenerational transmission of disadvantage from loss of human capital.

NIDEA Research Associate activity

AProf. Michael Cameron has continued to develop and apply path-breaking methods for demographic projections, including for small areas and small ethnic groups. He has completed consulting projections for Hamilton City Council, Waikato District Council, and Waipā District Council, evaluating the impact of the coronavirus pandemic on future population growth. With Mohana Mondal and as part of the CaDDANZ research programme, he has developed a prototype spatial microsimulation model for Auckland, that projects the spatial distribution of ethnic groups to the SA2 (suburb) level for a ten-year projection horizon. He has also contributed to a number of health research projects.

key outputs:

Cameron, M.P., Dunstan, K., and Cook, L. (2021 in press). The development of uncertainty in national and subnational population projections: A New Zealand perspective. In Cochrane, W., Alimi, O., and Cameron, M.P. (Eds.) *Labor Markets, Migration, and Mobility: Essays in Honor of Jacques Poot*, Singapore: Springer.

Cameron, M.P. (2020). 2020 Update of Population, and Family and Household, Projections for Hamilton City, 2013-2063, research report commissioned by Hamilton City Council, Hamilton: University of Waikato.

Mondal, M., Cameron, M.P., and **Poot, J.** (2020 in press). Economic and cultural residential sorting of Auckland's population, 1991-2013: An entropy approach, *Journal of Geographical Systems*.

NIDEA Students and Graduates

NIDEA is committed to capacity building through teaching, supervision and the provision of meaningful research opportunities for students. The core second year Population Studies undergraduate paper continues to attract a substantial number of students, including those seeking to major in Population Studies as well as students from across the BSocSci, BA and BEnvPlan. The PhD programme at NIDEA has continued to be successful, with 13 PhD candidates based in NIDEA in 2020, alongside three based in other units but supervised by NIDEA staff.

Postgraduate Completions

Congratulations to Dr. Dislorei (Desi) Rodriguez-Lonebear and Dr. Jesse Whitehead, who both successfully completed their PhD theses in 2020.

Dr. Rodriguez-Lonebear received doctoral degrees from the University of Waikato and the University of Arizona. Her thesis is entitled *Data For Sovereignty: Counting and Classifying Tribal Identity* and advances her broader research focus examining the interface of identity, enumeration, official statistics, and data sovereignty for indigenous peoples. Dr. RodriguezLonebear is now an Assistant Professor at the University of California, Los Angeles.

Dr. Whitehead's PhD thesis examined *The spatial equity and sustainability of general practitioner services* through a mixed methods analysis of the Waikato DHB region. He is now working as a researcher on projects associated with NIDEA and the Medical Research Centre.

Masters Supervision

Jonathan Kilgour

Alysha Reti (Master of Business Administration, Management) •

Topic: What is whanau transformation through education?

Fellows supervision

Ross Lawrenson

Dr Rawiri Keenan

- Topic: Cultural competence and equity focused activities in primary care

PhD Supervision

Polly Atatoa Carr

Jesse Whitehead (PhD in Population Studies)

- Topic: Are General Practitioner Services Spatially Equitable and Sustainable in the Waikato District Health Board Region?

Carole McMinn (PhD in Population Studies)

- Topic: Homeless Families of Hamilton: Exposing the Invisible Homeless of Hamilton and Their Journey to Sustained Tenancies Under a Housing First Approach
- Supported through PhD Scholarship as part of the MBIE funding “Housing First” research programme

John Natua (PhD in Population Studies)

- Topic: Understanding drivers towards better health and wellbeing for Cook Island families in the Waikato and Midland regions

Renee Schum (PhD in Geography)

- Topic: Geographies of Homelessness: A case study of The People’s Project
Supported through the MBIE funding “Housing First” research programme

Francis Collins

Kate Sewell (PhD in Geography)

- Topic: Realising Inclusion within Urban Regeneration Policy and Practice: the role of diverse perceptions, experiences and expectations
- University of Waikato Doctoral Scholarship recipient
- University of Waikato Doctoral Scholarship recipient

Zohirul Islam (PhD in Population Studies); co-supervised by Dr. Arama Rata •

Topic: Migration and Inequality

- University of Waikato Doctoral Scholarship recipient

Rachael Boswell (PhD in Geography, University of Auckland)

- Topic: The role of artist's creative spatial practices in urban regeneration after disasters

Harry Shi (PhD in Geography, University of Auckland)

- Topic: Cooking desires, living aspirations: the migration and everyday life of Chinese chefs in Auckland, New Zealand
- Funded by PhD Scholarship from Nation and Migration research programme

Tahu Kukutai

Patrick Broman (PhD, Demography).

- Topic: In pursuit of the ‘we’: Analysing demographic ‘New Zealandness’
- University of Waikato Doctoral Scholarship recipient

Desi Rodriguez-Lonebear (Dual PhD: Demography, University of Waikato; Sociology, University of Arizona).

- Topic: Data for sovereignty: Counting and classifying tribal identity
- University of Waikato Doctoral Scholarship recipient
- Robert Wood's Foundation Healthy Policy Research Scholars Programme
- American Sociological Association Minority Fellowship Programme

Moana Rarere (PhD, Demography). (co-supervised by Yara Jarallah)

- Topic: Māori fertility patterns and whānau formation in the 21st century.

Prabin Shakya (PhD, Demography).

- Topic: Premarital sexual behaviour of adolescents in Nepal.
- University of Waikato Doctoral Scholarship recipient

Love Umesi (PhD, Demography); (co-supervised by Yara Jarallah and Ian Pool).

- Topic: Underlying and state-level Contextual causes of early childhood mortality in Nigeria.
- University of Waikato Doctoral Scholarship recipient

Yara Jarallah

Co-supervisor, Love Umesi (PhD, Demography); (co-supervised with Tahu Kukutai)

Moana Rarere (PHD)

- Topic: Māori fertility patterns and whānau formation in the 21st century

Ross Lawrenson

Jesse Whitehead (PhD in Population Studies)

- Topic: Are General Practitioner Services Spatially Equitable and Sustainable in the Waikato District Health Board Region?

Sandrine Charvin-Fabre

- Topic: Homelessness and access palliative care in NZ

Megan Lenny (PhD in Psychology; Supervised with Nicola Starkey and Cate Curtis)

- Topic: Improving Access to Diagnostic Testing for Rural Communities in Aotearoa/NZ

Melissa Edwards PhD (University of Auckland)

- Topic: The influence of comorbidity on breast cancer care and outcomes in NZ

Lynne Chepulis

Malgorzata Hirsz (PhD in Health Development and Policy)

- Topic: How can we improve time to diagnosis of colorectal cancer in symptomatic patients? Symptoms and patient characteristics as criteria for diagnosis of colorectal cancer in primary and secondary care in New Zealand

Kimberley Norman PhD (University of Waikato)

- Exploring the Lived Experience and Perceived Barriers to Obesity Healthcare from Rural Waikato Healthcare Professionals and Clients

Jacques Poot

Mohana Mondal (PhD in Economics)

- Topic: Future Spatial Distribution of Ethnicity in Auckland

Summer Scholarship Programme 2020-2021

NIDEA researchers are committed to building research capacity and are keen supporters of the University of Waikato's Summer Scholarship programme. In some years, a few scholarships are co-funded by the NIDEA Research Trust Account; others are co-funded by external organisations.

Two summer Scholars were taken on by the Medical Research Centre in 2020

Christopher Mayo returned to take on a further summer studentship with our team joining Dr Ryan Paul and Dr Lynne Chepulis on a project "Establishing the first NZ and Adult site for the Australasian Diabetes Data Network".

Valentina Papa also returned taking on a further diabetes project "Characterising the epidemiology and risk factors for diabetic ketoacidosis" in the Waikato region" with Dr Ryan Paul and Dr Lynne Chepulis

Professional and Editorial Roles

Polly Atatoa Carr:

- Member of HRC Science Advisory Committee (meeting Sept 2018)
- Member, Waikato Medical Research Foundation Grants Committee
- Member, Steering Group, NZ Child and Youth Epidemiology Service
- Advisory Board Member, Racism, Discrimination and Stigma work programme - Child and Youth Wellbeing Strategy
- Member, Anglican Action Trust Board

Richard Bedford

- Member, Auckland War Memorial Museum Trust Board
- Member, Antarctic Heritage Trust Board
- Member, Committee on Freedom and Responsibility in Science (CFRS), International Science Council
- Chairperson, National Centre for Lifecourse Research Advisory Board

Francis Collins

- New Zealand Country Expert, *International Database of Migrant Rights* (George Mason University, UC San Diego, World Bank, Swiss Government)
- Reference Group Member, *New Zealand Red Cross Manaaki Manuhiri Visitor Care*
- Human Geography Editor, *New Zealand Geographer*
- Section Editor, *International Encyclopedia of Human Geography* (2nd Edition)
- Series Editor, *Pacific Rim Geographies* book series (Routledge)
- Series Editor, *Global Migration in the Asia-Pacific* book series (Anthem Press)
- Editorial Board, *Asian Migrations* book series (Routledge)
- Editorial Board, *Asian and Pacific Migration Journal*
- Editorial Board, *Social and Cultural Geography*
- Advisory Board Member, Constructing Transnational Spaces of Higher Education Research Project (Leibniz Institute for Research on Society and Space)
- Advisory Board Member, Youth Mobilities, Aspirations & Pathways Project (Australian Research Council)

Tahu Kukutai

- Member, Chief Science Advisor Forum
- Member, Census 2018 Census External Data Quality Panel
- Member, Health Research Council of New Zealand Ethics Committee
- Vice President, Population Association of New Zealand
- Co-Chair, Research Data Alliance – International Indigenous Data Sovereignty Interest Group
- Member, Technical Advisory Group to Iwi Data Leadership Group, Iwi Chairs Forum
- Editor, *New Zealand Population Review*
- Founding member, Te Mana Raraunga Māori Data sovereignty Network
- Founding member, Global Indigenous Data Alliance

Ross Lawrenson

- Member, National Lung Cancer Work Group meeting
- Chair, Hamilton Science Awards
- Member, BHealth Advisory Group
- Chair, Research Advisory Group (Waikato DHB)
- Chair, Waikato Postgraduate Medical Inc Executive
- Member, Breast Cancer NZ Register Trust, Clinical Advisory Group (CAG)
- Population Advisor, Strategy and funding, Waikato DHB
- Member, Medical Advisory Committee (Waikato DHB)
- Member, Waikato Health Memorabilia Trust
- Board Member, PHARMAC
- Member, MOH Cancer Information Strategy Board
- Member, NZ Rural GP Network

Shefali Pawar

- Secretary - Population Association of New Zealand (PANZ)

Arama Rata

- Mental Health and Wellbeing Commission, He Ara Oranga wellbeing outcomes framework, Technical Advisory Group
- Centre for Asia Pacific Refugee Studies (CAPRS) Expert Advisory Board

- Human Rights Commission, Advisory Group on Migrant Exploitation
- Waikato-Tainui Kōiora Strategy Panel member
- NZRIS Funder-Researcher Working Group
- New Zealand Alternative, Steering Group
- MAI Journal, Board of Editors
- current: Māori Association of Social Science, Committee Member

Yara Jarallah

- Honorary Research Fellow, Centre for Health Equity, Melbourne School of Population and Global Health, University of Melbourne
- Honorary Research Fellow, Australian Research Council Centre of Excellence for Children and Families over the Lifecourse, University of Queensland.
- Member, Lancet Palestinian Health Alliance
- Member, Public Health in the Arab World
- Population Studies undergraduate Advisor, University of Waikato
- Member of the Academic Planning Committee within the ALPSS Division, University of Waikato

Jacques Poot

- Emeritus Professor of Population Economics, University of Waikato, Hamilton, New Zealand
- Member, European Science Foundation College of Expert Reviewers
- Lead Assessor, New Zealand Ministry of Business, Innovation and Employment (MBIE) Endeavour Fund applications (Smart Ideas and Research Programme)
- Journal Editor, special issue of *Journal of Geographical Systems* on Spatial Demography in Regional Science.
- Visiting Professor, Department of Spatial Economics, School of Business and Economics, Vrije Universiteit Amsterdam, The Netherlands
- Appointed Honorary Professor, School of Accounting, Finance & Economics (SAFE), University of Waikato (July 2019 – June 2021)
- External examiner for PHD Thesis at the University of Cambridge

- Reviewer for papers submitted to PLOS One, Journal of Economic Surveys, *Economia Internazionale*, *Review of Regional Research: Jahrbuch für Regionalwissenschaft*, *Applied Spatial Analysis and Policy*, *Annals of Regional Science*, *Cities*, *Economics*

Rawiri Keenan

- Member, Health Quality and Safety Commission Patient Experience of Care Governance Group
- Member, Medical Council of New Zealand - Cultural Competence, Partnership and Health Equity Advisory Group
- Executive member, Te Akoranga a Māui; Māori representative group for Royal New Zealand College of General Practitioners
- Treasurer, Royal New Zealand College of General Practitioners Waikato/ Bay of Plenty Faculty

Ryan Paul

- President of the New Zealand Society of Endocrinology (NZSE)
- Member, Clinical Associate Maurice Wilkins Centre
- Member, RACP New Zealand Endocrinology Advanced Training Subcommittee •
Member, New Zealand Society for the Study of Diabetes Executive Member
- Member, National Transition Project Member for Diabetes in New Zealand.
- Member, DESA Committee Member
- Chair, NZSE Clinical Meeting Conference Committee
- Clinical Advisor, Diabetes and Eating Disorders Awareness

Shemana Cassim

- 2020 – Present: Editorial Board Member of the *Journal of Community and Applied Social Psychology*.
- 2020 – Present: Research Associate and Honorary Lecturer in the Māori and Psychology Research Unit, School of Psychology, University of Waikato.
- 2019 – Present: Co-convener of the Aotearoa Migration Research Network.
- 2018 – Present: Member of the executive council of The International Contemporary Ethnographies Across the Disciplines Association (CEAD).

- Summer Research Project: Supervision:
(2019-2020) Lead supervisor on a UoW Summer Research Scholarship project
entitled: Designing a website for improving awareness of Lung Health – student:
Joshua Fellingham

Guest Lectures

Cassim, S. Guest lecturer for 175.201 Social Psychology, presenting a lecture entitled “Migration, acculturation & settlement” (Massey University, Albany Campus). Guest lecturer for PSYCH 320 Culture and Psychology, presenting a lecture entitled “Migrant settlement and hybrid (cultural) identities” (University of Auckland).

Collins, F.L. Guest lecturer for GEOG210/381 Social Geography, presenting a lecture entitled “Intersections of Migration and Inequality” (Otago University).

Kukutai, T. Guest lecture ‘Te Tiriti, immigration, attitudes towards Māori culture and multiculturalism’, POLS 488 Approaches to Migration Studies (Victoria University of Wellington)

Lawrenson, R. Public Health Paper on Health Well-Being (Guest Lecture for Katrina Roen)
17 Sept, 2019

Lawrenson, R. Rural Health lecture, POPS508 Population Health class -
(Guest Lecture for Polly Atatoa-Carr) 24 Sept, 2019

Keynote Addresses, Plenary and Invited Presentations, Discussants

Collins, F.L. (2020). Invited Speaker. Border Experiments and New Topologies of Control. *International Workshop on International Student Mobilities and Post-Pandemic Futures*. Hosted by the Asia Research Institute, National University of Singapore. 5-6 November.

Collins, F.L. (2020). Invited Speaker. The Migration-Discrimination System and Workplace Exploitation. *Narratives of Migrant and Refugee Discrimination in Aotearoa New Zealand*. Centre for Global Migrations, Otago University. 3-4 December.

Collins, F.L. (2020). Invited Speaker. Migration Policy in Aotearoa: The way we were and how we can build back better. Hosted by the New Zealand Association of Migration and Investment. 25th October.

Kukutai, T. 2020. Invited speaker. Panel on Indigenous data sovereignty: Opportunities and challenges. Data Salon hosted by The Atlantic Council. 22 October.

Kukutai, T. 2020. Invited speaker. Panel on the quantification of race and ethnicity: Promises and pitfalls. Institute in Critical Quantitative and Computational Methodologies – Critical methodologies for a critical moment. 3 August.

Kukutai, T. 2020. Invited speaker. Identity as a taonga. IdentityNORTH virtual annual summit. 18 June. <https://www.identitynorth.ca/events/identitynorth2020/>

Lawrenson, R. Rural Health for Public Health Registrar forum (May 2019)

Poot, J. 2020. Migration economics for the 2020s. Invited keynote lecture at the conference “International and internal migration: challenges and opportunities in Europe”, Gran Sasso Science Institute, L’Aquila, Italy, January 16-17, 2020.

Other Invited Presentations

Barber, S., Rākete, E., **Rata, A.**, & Vallely, N. Indigenous Internationalism against Regimes of Race and Deportation. Social Movements Resistance and Social Change, 11-14 November 200, Wellington.

Hulme-Niuapu, A., Gee, S., **Rata, A.**, DeSouza, R., & Brown-Davis, S. Conversations on Tangata Whenua and Asian solidarity. Social Movements Resistance and Social Change, 11-14 November 2020, Wellington.

Jarallah, Y. (2020). The ties that bind? Marriage formation, consanguinity and war in Lebanon and Palestine. In *The Population Association of America's 2020 annual meeting*. Washington DC, USA [Cancelled] but held virtually.

Kukutai, T. (2020). Indigenous data sovereignty. In Te Tiriti Based Futures + Anti-racism 2020. Virtual conference.

Lawrenson, R. and Whitehead J., Mahitahi Hauora presentation. Virtual presentation to CEO Phillip Balme and Executive Leadership team - Collaborative research with Mahitahi Hauora supporting and providing relevant data re: HRC project - Urban-Rural Classification development for health policy and research purposes. Otago Rural Seminar – August 2020

Marsters, E., Nash, T., Harris, M., & **Rata, A.** Breakfast with New Zealand Alternative. Ōtaki Summer Camp, 17-20 January 2020, Ōtaki.

Ngata, T., Marsters, E., Case, E., Wilton, A., & **Rata, A.** A feminist aid policy in Aotearoa? DevNet 2020, 2-4 December 2020, Palmerston North.

Poot, J. Hometown and whānau, or big city and millennials? The economic geography of graduate destination choices in New Zealand. NIDEA Seminar, March 2020.

Poot, J. The impact of covid-19 on New Zealand's international migration. Hamilton Rotary, June 2020.

Rata, A., & Mio, J. Weaving Intentions for the Kāwanatanga Sphere. Social Movements Resistance and Social Change, 11-14 November 2020, Wellington.

Rata, A. Insitute of Judicial Studies. Critical demography: Race, colonialism and population. Insitute of Judicial Studies Diversity Seminar, 8-9 October 2020, Wellington.

International Conferences

Jarallah, Y. (2020). [Cancelled Conference] The ties that bind? Marriage formation, consanguinity and war in Lebanon and Palestine. In *The European Population Conference 2020*. Padova, Italy [Cancelled].

National Conferences

Lawrenson, R. Biannual Seminar, Waikato Clinical campus, University of Auckland.

Publications and Research Output

Peer reviewed Journal Articles

Atatoa Carr, P., Sadani, S., Whitehead, J., McManus-Emery, D., Parsonson, T., & Roe, J. (2020). Supporting child wellbeing: a health assessment tool for the Hamilton Children's Team. *Policy Quarterly*, 16(1), 10-17. doi:10.26686/pq.v16i1.6350

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Cassim S, Kidd J, Keenan R, Middleton K, Rolleston A, Hokowhitu B, Firth M, Aitken D, Wong J, **Lawrenson R.** Indigenous perspectives on breaking bad news: ethical considerations for healthcare providers. *J Med Ethics* 2021;0:1–5. doi:10.1136/medethics-2020-106916

Cassim, S., Hodgetts, D., & Stolte, O. (2020). Exploring distancing among Sri Lankan migrants in New Zealand. *International Journal of Intercultural Relations*, 79, 165-176. doi:10.1016/j.ijintrel.2020.09.003

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- Chepulis, L., Mayo, C., Morison, B., Keenan, R, Paul, R., Lawrenson, R.** Metformin Adherence in Patients with Type 2 Diabetes, and Association with HbA1c Levels. Submitted to *Journal of Primary Health Care* (May 2020)
- Chepulis L, Morison B, Lao C, Keenan R, Paul R, Lawrenson R.** The prevalence of mental health medication use in a cohort of New Zealand patients with diabetes. *Prim Care Diabetes*. 2020 Jul 25:S1751-9918(20)30226-6. doi: 10.1016/j.pcd.2020.07.004
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- Collins, F. L.** (2020). Migration ethics in pandemic times. *Dialogues in Human Geography*, doi: 10.1177/2043820620975964
- Collins, F. L.** (2020). Geographies of migration I: Platform migration. *Progress in Human Geography*, doi:10.1177/0309132520973445
- Collins, F. L.** (2020). 'Give me my pathway!': Multinational migration, transnational skills regimes and migrant subjectification. *Global Networks*. doi:10.1111/glob.12294
- Collins, F. L., & Bayliss, T.** (2020). The good migrant: Everyday nationalism and temporary migration management on New Zealand dairy farms. *Political Geography*, 80. doi:10.1016/j.polgeo.2020.102193
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NIDEA staff with Jenny Robertson and Suzanne Guilford (Division of Arts, Law, Psychology, and Social Sciences Senior Research Management Advisor and Research Contracts Management Advisor) and Euan Kilgour (ICT Support Consultant)

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