

## WUN RESEARCH DEVELOPMENT FUND

*Information on University of Alberta (UALberta) recipients and collaborators*

### 2020 RESEARCH DEVELOPMENT FUND RECIPIENTS

#### UALBERTA PRINCIPLE INVESTIGATORS

*Norms, standards, and enforcement of the COVID-19 International Certificate of Vaccination*

**PI:** Dr. Whitfield Andy Knight, Professor, Department of Political Science

**WUN Partners:** University of Auckland, University of Sheffield, University of Western Australia

*Impact of the COVID-19 Pandemic on Adolescents' Sexual and Reproductive Health in Low- and Middle-Income Countries.*

**PI:** Dr. Salima Meherali, Assistant Professor, Faculty of Nursing

**WUN Partners:** University of Ghana, University of Sheffield, Universidade Federal de Minas Gerais

*MommyDaddyCovid Stress Study.*

**PI:** Dr. David Olson, Professor, Departments of Obstetrics & Gynecology, Pediatrics and Physiology

**WUN Partners:** University of Massachusetts, University of Rochester, University of Southampton

#### UALBERTA COLLABORATORS

*Exploring the changing social networks of low-income migrants in post-COVID cities: Implications on community-based health infrastructure*

**PI:** Dr. Yiming Wang, University of Bristol

**UALberta collaborator:** Dr. Bukola Salami, Faculty of Nursing

**Research Team:** University of Alberta, University of Bristol ; The Chinese University of Hong Kong; National Cheng Kung University; University of York; Zhejiang University

*Gendering Public Health - Women's Leadership in the context of COVID-19*

**PI:** Dr. Roberta Guerrina, University of Bristol

**UALberta collaborator:** Dr. Denise Spitzer, School of Public Health

**Research Team:** University of Alberta, The University of Auckland; University of Bristol; The Chinese University of Hong Kong; University of Ghana; Maastricht University; University of York

*Global comparative assessment of the role of oceans in a sustainable future*

**PI:** Dr. Susan Gourvenec, University of Southampton

**UALberta collaborator:** Dr. Ryan Li, Faculty of Engineering

**Research Team:** University of Alberta, The University of Auckland; University of Bergen; University of Cape Town; The Chinese University of Hong Kong; University of Lausanne; University of Southampton; The University of Western Australia

*Heritage and Climate Change: The state of the research on climate change-induced impacts to cultural landscapes*

**PI:** Dr. Elizabeth Brabec, University of Massachusetts Amherst

**UALberta collaborator:** Dr. Florence Glanfield – Faculty of Education/ Brenda Parlee, Faculty of ALES

**Research Team:** University of Alberta, The University of Auckland; University of Bristol; University College Dublin; University of Massachusetts Amherst

*Life Below Water: Using Fish as Global Indicators of Microplastics*

**PI:** Dr. Adrian Jordaan, University of Massachusetts Amherst

**UALberta collaborator:** Dr. Greg Goss, Faculty of Science

**Research Team:** University of Alberta, University of Bergen; University of Ghana; University of Massachusetts Amherst; National Cheng Kung University; University of Southampton; The University of Western Australia

## 2019 RESEARCH DEVELOPMENT FUND RECIPIENTS

### UALBERTA PRINCIPLE INVESTIGATORS

*Global Research Network on the Economic Empowerment of Women (ReNEW)*

**PI:** Dr. Rhonda Breitzkreuz, Professor, Department of Human Ecology

**WUN Partners:** University College Dublin; Universidade Federal de Minas Gerais; University of Ghana; The University of Sydney

### UALBERTA COLLABORATORS

*Addressing the impact of heatwaves and drought on food security*

**PI:** Dr. Yoselin Benitez-Alfonso, University of Leeds

**UALberta collaborator:** Dr. Jocelyn Ozga, Department of Agricultural, Food and Nutritional Science.

**Research Team:** University of Alberta; The University of Auckland; Universidade Federal de Minas Gerais; The Chinese University of Hong Kong; University of Leeds; University of Massachusetts Amherst; National Cheng Kung University; The University of Sheffield; University of Southampton; The University of Western Australia; University of York; Zhejiang University

*Climate-Induced Migration: Global Scope, Regional Impacts and National Policy Frameworks*

**PI:** Dr. Andreas Neef, University of Auckland

**UALberta collaborator:** Dr. Bukola Oladunni Salami, Faculty of Nursing

**Research Team:** University of Alberta; The University of Auckland; University of Bristol; University College Dublin; University of Ghana; Maastricht University; University of Massachusetts Amherst; University of Rochester; University of Southampton; Tecnológico de Monterrey; The University of Western Australia; University of York

*!Gâ re – Rangatiranga – Dadirri : Decolonizing the 'capture of knowledge'*

**PI:** Dr. June Bam-Hutchison, University of Cape Town

**UALberta collaborator:** Dr. Florence Glanfield, Department of Secondary Education.

**Research Team:** University of Alberta; The University of Auckland; University of Bristol; University of Cape Town; University of Ghana; University of Massachusetts Amherst; The University of Sydney; The University of Western Australia; University of York; Zhejiang University

*Innovating the mathematics curriculum in times of change: towards local and global relevance*

**PI:** Dr. Alf Coles, University of Bristol

**UALberta collaborator:** Dr. Elaine Simmt, Department of Secondary Education.

**Research Team:** University of Alberta; University of Bristol; University of Cape Town; The Chinese University of Hong Kong

*WUN Health Humanities initiative: towards the development of the patient-centred and compassionate Health Professional through education*

**PI:** Dr. Sandra Carr, University of Western Australia

**UAlberta collaborator:** Dr. Pamela Brett-MacLean, Department of Psychiatry

**Research Team:** University of Alberta; University of Cape Town Maastricht University; The University of Sydney; The University of Western Australia

## 2018 RESEARCH DEVELOPMENT FUND RECIPIENTS

### UALBERTA PRINCIPLE INVESTIGATORS

*African Child and Youth Health in the Context of Migration and Displacement*

**PI:** Dr. Bukola Salami – Associate Professor, Faculty of Nursing

**WUN partners:** University of Auckland, University of Cape Town, University of Ghana, Maastricht University, University of Massachusetts Amherst, University of Rochester, University of Sheffield, University of Sydney, University of Western Australia

*Modelling Microplastic Waste Transport in Rivers and the Coastal Oceans*

**PI:** Dr. Bruce Sutherland – Professor, Department of Physics and Earth & Atmospheric Sciences

**WUN partners:** University of Auckland, University of Western Australia

### UALBERTA COLLABORATORS

*Climate resilient African landscapes*

**PI:** Sheona Shackleton, Deputy Director, African Climate and Development Initiative, University of Cape Town

**UAlberta Collaborator:** Dr. MK Luckert – Professor, Resource Economics & Environmental Sociology

*Intercultural Communication in Interaction: multimodal approaches*

**PI:** Dr. Ulrike Schröder – Universidade Federal de Minas Gerais, Belo Horizonte

**UAlberta Collaborator:** Dr. Jennifer Dailey-O’Cain – Professor, Modern Languages and Cultural Studies

*Family costs of palliative and end of life care: setting the global research agenda*

**PI:** Dr. Merryn Gott – Professor, Health Sciences, University of Auckland

**UAlberta Collaborator:** Dr. Konrad Fassbender – Assistant Professor, Oncology

*Migrants’ Decision Making in the Context of Shifting Migration Regimes*

**PI:** Dr. Majella Kilkey – Co-Director Migration Reader Group and Reader in Social Policy, Department of Sociological Studies, University of Sheffield

**UAlberta Collaborator:** Dr. Amy Kaler – Assistant Chair, Sociology

## 2017 RESEARCH DEVELOPMENT FUND RECIPIENTS

### UALBERTA PRINCIPLE INVESTIGATORS

*Facilitating international research collaboration between economists working on the integration of renewable generation into electricity markets*

**PI:** Dr. David Brown – Assistant Professor, Economics

**WUN partners:** University of Auckland

### **UALBERTA COLLABORATORS**

*Health Education Literacy and Mobility for Musicians: A global approach*

**PI:** Dr. Suzanne Wijsman – Associate Professor, Faculty of Arts, Business, Law and Education, University of Western Australia

**UALberta Collaborator:** Dr. Christine Guptil – Assistant Professor, Faculty of Rehabilitation

*Communicating Good Health and Wellbeing: Promotion, Advocacy and Resilience*

**PI:** Dr. Rob Cover – Associate Professor, School of Social Sciences, University of Western Australia

**UALberta Collaborator:** Dr. Philomina Okeke-Ihejirika – Professor, Women's & Gender Studies

### **2016 RESEARCH DEVELOPMENT FUND RECIPIENTS**

#### **UALBERTA PRINCIPLE INVESTIGATORS**

*No UAlberta led WUN RDF projects.*

#### **UALBERTA COLLABORATORS**

*Social remittances, health and well-being*

**PI:** Dr. Sarah Salway, Professorial Research Fellow, Professor of Public Health, University of Sheffield

**UALberta Collaborator:** Dr. Zubia Mumtaz, Associate Professor, School of Public Health

*Impacts of Legume Research and Development on Developing Countries*

**PI:** Dr. Hon Ming Lam – Professor, School of Life Sciences, Chinese University of Hong Kong

**UALberta Collaborator:** Dr. Sven Anders – Professor, Agricultural, Life and Environmental Sciences

*Migration Policy, Welfare Boundary, Social Integration & Health-related Quality of Life of Children from Immigrant Families*

**PI:** Dr. Qiaobing Wu – Assistant Professor, Chinese University of Hong Kong

**UALberta Collaborator:** Dr. Philomina Okeke-Ihejirika – Professor, Women's & Gender Studies; Dr. Reza Hasmath – Professor, Political Science

*Hidden Voices: Exploring the health experiences of children who migrate*

**PI:** Dr. Jill Thompson – Lecturer, School of Nursing & Midwifery, University of Sheffield

**UALberta Collaborator:** Dr. Bukola Salami – Assistant Professor, Faculty of Nursing

*Assessment and intervention technologies for the movement ability of older adults*

**PI:** Dr. Gangmin Ning – Professor, Biomedical Engineering, Zhejiang University

**UALberta Collaborator:** Dr. Eleni Stroulia – Professor, Computing Science; Dr. Lili Liu – Chair, Faculty of Rehabilitation

### **2015 RESEARCH DEVELOPMENT FUND RECIPIENTS**

#### **UALBERTA PRINCIPLE INVESTIGATORS**

*No UAlberta led WUN RDF projects.*

#### **UALBERTA COLLABORATORS**

*Sustainable Care: Connecting People and Systems*

**PI:** Dr. Sue Yeandle – Professor, Professor of Sociology and Director of Centre for International Research on Care, Labour & Equalities (CIRCLE), University of Sheffield

**UALberta Collaborator:** Dr. Janet Fast – Professor, Department of Human Ecology, Faculty of Agricultural, Life, and Environmental Sciences (ALES)

*Sustainable Care: Connecting People and Systems*

**PI:** Dr. Mindel van de Laar – PhD director Governance and Policy Analysis (GPAC2), Maastricht Graduate School of Governance Maastricht University/UNU-MERIT, University of Maastricht

**UALberta Collaborator:** Dr. Bukola Salami – Assistant Professor, Faculty of Nursing; Dr. Margaret Law – Director, External Relations, University of Alberta Libraries

## 2014 RESEARCH DEVELOPMENT FUND RECIPIENTS

### UALBERTA PRINCIPLE INVESTIGATORS

*Himalayan climate change: debris covered glacier response, water availability, biodiversity, and ecosystem response*

**PI:** Dr. Andrew Bush – Professor, Department of Earth and Atmospheric Sciences

**WUN partners:** Chinese University of Hong Kong, University of Leeds, University of Sheffield, and University of Western Australia

*Optimal Pregnancy Environment Risk Assessment (OPERA)*

**PI:** Dr. David Olson – Professor, Department of Obstetrics and Gynecology

**WUN partners:** University of Auckland, University of Bergen, University of Bristol, University of Leeds, University of Sydney, University of Western Australia, and Zhejiang University

### UALBERTA COLLABORATORS

*Addressing multiple forms of migrant precarity – beyond ‘management’ of migration to an integrated rights-based approach*

**PI:** Dr. Nicola Piper – Professor, Department of Sociology and Social Policy, University of Sydney

**UALberta Collaborator:** Dr. Bukola Salami – Assistant Professor, Faculty of Nursing

*Climate change: understanding systemic shocks in integrated infrastructures*

**PI:** Dr. Nick Taylor-Buck – Research Associate, Department of Town and Regional Planning, University of Sheffield

**UALberta Collaborator:** Dr. Evan Davies – Assistant Professor, Department of Civil and Environmental Engineering

*Feasibility study of recommender systems in academia*

**PI:** Dr. Evgueni Smirnov – Assistant Professor, Department of Knowledge Engineering, Maastricht University

**UALberta Collaborator:** Dr. Osmar Zaiane – Professor, Department of Computing Science

*Health promoting responses to climate change*

**PI:** Dr. Ralph Maddison – Associate Professor, National Institute for Health Innovation, University of Auckland

**UAlberta Collaborators:** Dr. Amit Kumar – Professor, Department of Mechanical Engineering; Dr. John C. Spence – Associate Dean (Research), Faculty of Physical Education and Recreation

*Labour market outcomes among highly skilled immigrants and return migrants: the role of place of education*

**PI:** Dr. Yuying Tong – Associate Professor, Department of Sociology, Chinese University of Hong Kong

**UAlberta Collaborator:** Dr. Gillian Stevens – Professor, Department of Sociology

*Legumes as the hub of diversification and adaptation to climate change in Mediterranean agriculture*

**PI:** Dr. Michael Considine – Lecturer, School of Plant Biology, University of Western Australia

**UAlberta Collaborator:** Dr. Jocelyn Ozga – Professor, Department of Agricultural, Food and Nutritional Science

*Multilingualism and mobility in the northern and southern hemispheres*

**PI:** Dr. Kristine Horner – Multilingualism/Endowed Chair and Director of the Centre for Luxembourg Studies, University of Sheffield

**UAlberta Collaborator:** Dr. Jennifer Dailey-O’Cain – Professor, Department of Modern Languages and Cultural Studies

*Understanding the impact of migration on health: synthesizing the evidence, improving methods and reviewing current policies*

**PI:** Dr. Yoav Ben-Shlomo – Professor, School of Social and Community Medicine, University of Bristol

**UAlberta Collaborator:** Dr. Bukola Salami – Assistant Professor, Faculty of Nursing

## 2013 RESEARCH DEVELOPMENT FUND RECIPIENTS

### UALBERTA PRINCIPLE INVESTIGATORS

*67,000 more helping hands: An international collaboration to further engage pharmacists in improving primary healthcare*

**PI:** Dr. Ross Tsuyuki – Professor, Department of Medicine

**WUN partners:** University of Auckland, University of Sydney

### UALBERTA COLLABORATORS

*Global Farm Platforms for Optimization of Grazing Livestock Production Systems*

**PI:** Dr. Mark Eisler – Chair in Global Farm Animal Health, University of Bristol

**UAlberta Collaborator:** Dr. Ellen Goddard – Professor, Department of Resource Economics and Environmental Sociology

*Indigenous research network*

**PI:** Dr. Catriona Elder – Associate Professor, Sociology and Social Policy, University of Sydney

**UAlberta Collaborator:** Dr. Makere Stewart-Harawira – Associate Professor, Educational Policy Studies



## 2012 RESEARCH DEVELOPMENT FUND RECIPIENTS

### UALBERTA PRINCIPLE INVESTIGATORS

*Evaluating the potential for urban agriculture to enhance food security in response to climate change*

**PI:** Dr. Debra Davidson – Professor, Department of Renewable Resources

**WUN partners:** Chinese University of Hong Kong, University of Auckland, University of Leeds, University of Western Australia

*Older workers and caregiving: statistical evidence from the UK, Australia, and Canada*

**PI:** Dr. Janet Fast – Professor, Department of Human Ecology

**WUN partners:** University of Leeds, University of Sydney

### UALBERTA COLLABORATORS

*Bridging health promotion and sustainability science: transition to the green economy*

**PI:** Dr. Maurice Mittelman – Professor, Department of Health Promotion and Development, University of Bergen

**UALberta Collaborator:** Dr. Jane Springett – Professor and Director, Centre for Health Promotion Studies

*The impact of climate change on the socio-ecology of animals: effects on epidemic disease spread and species invasion*

**PI:** Dr. Luca Giuggioli – Senior Lecturer, Complexity Sciences, University of Bristol

**UALberta Collaborator:** Dr. Mark Lewis – Professor, Department of Biological Sciences

*Migration with and without children: causes and economic, social, and psychological consequences*

**PI:** Dr. Junsen Zhang – Professor, Department of Economics, Chinese University of Hong Kong

**UALberta Collaborator:** Dr. Runjuan Liu – Associate Professor, Alberta School of Business

*Pregnancy exposome and fetal growth restriction*

**PI:** Dr. Phil Baker – Professor, Maternal and Fetal Health, University of Auckland

**UALberta Collaborator:** Dr. David Olson – Professor, Department of Obstetrics and Gynecology

*Comparative analysis of international refugee resettlement international law obligations and policy*

**PI:** Dr. Chris Mahoney – Deputy Director, New Zealand Centre for Human Rights Law, Policy and Practice, University of Auckland

**UALberta Collaborator:** Dr. Anna Kirova – Professor, Department of Elementary Education; Dr. Philomina Okeke-Ihejirika – Professor, Department of Women's and Gender Studies

*WUN international inflammation network (in-FLAME)*

**PI:** Dr. Susan Prescott – Professor, School of Pediatrics and Child Health, University of Western Australia

**UALberta Collaborator:** Dr. Anita Kozyrskyj – Associate Professor, Department of Pediatrics

*Reducing inequality in oral health*

**PI:** Dr. Linda Slack-Smith – Professor, School of Dentistry, University of Western Australia

**UAlberta Collaborator:** Dr. Maryam Sharifzadeh-Amin – Associate Professor, School of Dentistry

## 2011 RESEARCH DEVELOPMENT FUND RECIPIENTS

### UALBERTA PRINCIPLE INVESTIGATORS

*International Symposium on Maternity and Immigration*

**PI:** Dr. Gina Higginbottom – Professor, Faculty of Nursing

**WUN partners:** University of Leeds, University of Sheffield, University of Sydney

*Invasive species under climate change: economic impacts*

**PI:** Dr. Linda Hall – Professor, Department of Agricultural, Food and Nutritional Science

**WUN partners:** University of Auckland, Pennsylvania State University, University of Southampton, University of Sydney, University of Western Australia

### UALBERTA COLLABORATORS

*Geographies of power: justice, revolution, and the cultural imagination*

**PI:** Dr. Sophia A. McClennen – Professor, School of International Affairs, Pennsylvania State University

**UAlberta Collaborator:** Dr. George Pavlich – Professor, Faculty of Law

*Ice sheet and climate interaction - implications for coastal engineering*

**PI:** Dr. Mark Siddall – Research Fellow, Department of Earth Sciences, University of Bristol

**UAlberta Collaborator:** Dr. John England – Professor, Department of Earth and Atmospheric Sciences

*Lessons for Life: innovating and evaluating school age health education interventions for the prevention and control NCDs*

**PI:** Dr. Marcus Grace – Southampton Education School, University of Southampton

**UAlberta Collaborator:** Dr. Paulus Veugelers – Professor, Public Health Sciences

*Media, tobacco, and trade: innovative approaches to reducing non-communicable disease in the Pacific*

**PI:** Dr. Judith McCool – Senior Lecturer, Department of Social and Community Health, University of Auckland

**UAlberta Collaborator:** Dr. John Church – Associate Professor, School of Public Health

*Navigating from below: patients shaping health systems to address NCDs*

**PI:** Professor Stephanie Short – Head of the Discipline of Behavioral and Social Sciences Short; Dr. Kirsten Harley – PDF, Health Systems and Global Populations Research Group, University of Sydney

**UAlberta Collaborator:** Dr. Trish Raey – PDF, Health Systems and Global Populations

*State and society and the uses of culture in china*

**PI:** Dr. Gray Sigley – Asian Studies, University of Western Australia

**UAlberta Collaborator:** Dr. Gordon Houlden – Director, China Institute

*WUN global health literacy network: the role of health literacy in addressing the social determinants*



of NCDs

**PI:** Dr. Sian Smith – PDF, School of Public Health, University of Sydney

**UALberta Collaborator:** Dr. Jane Springett – Professor and Director, Centre for Health Promotion Studies

## 2010 RESEARCH DEVELOPMENT FUND RECIPIENTS

### UALBERTA PRINCIPLE INVESTIGATORS

*Global social initiative in aging (GSIA)*

**PI:** Dr. Norah Keating – Professor, Department of Human Ecology

**WUN partners:** University of Sydney, University of Leeds, University of Cape Town, Nanjing University

*Characterizing space radiation and its impact on climate change*

**PI:** Dr. Ian Mann – Professor, Department of Physics

**WUN partners:** University of Leeds and University of Bergen.

### UALBERTA COLLABORATORS

*Public health and climate change - combining climate change and chronic disease prevention*

**PI:** Dr. Ruth Colagiuri – Associate Professor, Health and Sustainability Unit, University of Sydney

**UALberta Collaborator:** Dr. Colin Soskolne – Professor, School of Public Health

*Putting new paradigms into practice: transatlantic lessons in population health improvement*

**PI:** Dr. Tom Oliver – Professor, Population of Health Sciences, University of Wisconsin-Madison

**UALberta Collaborators:** Dr. Ken Zakariasen – Professor, School of Public Health

*Early life opportunities for the prevention of noncommunicable disease in developing countries*

**PI:** Dr. Mark Hanson – Professor, Academic Unit of Human Development and Health, University of Southampton

**UALberta Collaborator:** Dr. Art Quinney – Professor Emeritus, Department of Physical Education and Recreation; Dr. Paul Veugelers – Director, Population Health Intervention Research Unit; Dr. John Spence, Associate Dean, Faculty of Physical Education and Research; Dr. David Olson – Professor, Department of Obstetrics and Gynecology; Dr. Tanya Berry – Professor, Faculty of Physical Education and Recreation

## 2009 RESEARCH DEVELOPMENT FUND RECIPIENTS

### UALBERTA PRINCIPLE INVESTIGATORS

*Xeno-racism and extremism*

**PI:** Dr. Andy W. Knight – Professor, Department of Political Science

**WUN partners:** University of Leeds, University of Southampton, University of Sheffield

### UALBERTA COLLABORATORS

*Gender and climate change*

**PI:** Dr. Nancy Tuana – Professor of Ethics, Penn State University

**UAlberta Collaborator:** Dr. Naomi Krogman – Associate Professor, Department of Resource Economics and Environmental Sociology

*Arctic environments: vulnerabilities and opportunities AEVO*

**PI:** Dr. Katherine Arrell – Faculty of Environment, School of Geography, University of Leeds

**UAlberta Collaborator:** Dr. Marianne Douglas – Director, Circumpolar Institute

*Medieval plays in modern performance (2MP)*

**PI:** Professor Pamela King – Professor, Department of English, University of Bristol

**UAlberta Collaborator:** Dr. Garrett Epp – Professor, Department of English and Film Studies

*Nanotechnology for healthcare*

**PI:** Dr. Maurits de Planque – Faculty of Engineering, Science and Mathematics, University of Southampton

**UAlberta Collaborator:** Dr. Chris Backhouse – Professor and Director, Engineering Physics Program, Department of Electrical and Computer Engineering

*Sea level, ice sheets and isostasy*

**PI:** Dr. Mark Siddall – Research Fellow, Department of Earth Sciences, University of Bristol

**UAlberta Collaborator:** Dr. John England – Professor, Department of Earth and Atmospheric Sciences

*Global warming effects on pathogen behavior and implications for world food security: case studies relating to choices of Brassica crops to cope with abiotic stresses*

**PI:** Dr. Martin Barbetti – Professor, School of Plant Biology, University of Western Australia

**UAlberta Collaborator:** Dr. Stephen Strelkov – Professor, Department of Agricultural, Food and Nutritional Science