AREAS OF RESEARCH
AT MASSEY
AREAS OF RESEARCH AT MASSEY UNIVERSITY

This guide is designed to assist prospective doctoral students in matching their research interests with those of supervisors across the university. You will see that the guide is divided into five sections (Business, Creative Arts, Health, Humanities & Social Sciences and Sciences). Within each section, there are several academic units (commonly referred to as schools or institutes), representing clusters of related research topics, and each unit has an academic contact who has responsibility for postgraduate students. Larger institutes may have multiple research topic areas with their own academic contact. Academic contacts can give advice about doctoral study and supervisory expertise within their units.

We recommend prospective students take the following steps:

- Review the PhD entry criteria to check if you meet admission requirements
- Visit the Colleges (or Massey Business School) webpages through hyperlinks in this guide
- Identify the academic unit and research area that most closely align with your interests
- Research the academic unit webpages, particularly the staff profiles to find out more about research publications and supervision. This will also give you an idea about the research other doctoral candidates are doing under the staff member’s supervision.
- Carefully craft an email to a potential supervisor (avoid generic emails to a number of staff) and tell him/her
  - your background (qualifications, research experience, etc.)
  - your research interests
  - how your studies will be funded (e.g., personal funds, scholarship)
  - when you would like to enrol
- Read the requirements for the application process and apply online.
School of Accountancy
Contact: Assoc Prof Lin Mei Tan
Accounting Education
Auditing Assurance/Auditing
Financial Reporting and Governance
Management Accounting and Performance
Public Sector Financial Reporting and Assurance

School of Aviation
Contact: Dr Andrew Gilbey
Airline Business Models and Strategies
Air Transport Policy
Application of Sustainable Energy in Aviation
Aviation and Tourism Demand Forecasting
Aviation Human Factors
Aviation Performance Measurement
Aviation Strategic Management
Decision-Making (in general aviation flying)
Development of Low-cost Flight Simulators
Development of Low-cost UAVs
Efficiency and Productivity Analysis
Modernising the Features of Flight Training Simulators
Safety Management in Aviation
Transportation Economics

School of Communication, Journalism & Marketing
Contact: Prof Stephen Croucher
Communication and Journalism
Critical and Cultural Studies
Cross-cultural Communication
Developmental Communication
Digital Media and Culture
Discourse Theory and Analysis
Health Communication
History of Journalism
Indigenous Communication
Intercultural Communication
Investigative Journalism
Journalism and News Media
Media Studies
Organisational Communication
Political Communication
Professional Communication
Public Relations
Science Communication
Social Justice Communication
Marketing
Analytics
Branding
Consumer Behaviour

School of Economics & Finance
Contact: Prof David Tripe/Assoc Prof Sasha Molchanov
Economics
Agricultural Economics and Policies
Applied Microeconomic and Macroeconomic Analysis
Economic Growth, International & Development Economics
Environmental and Ecological Economics
Finance
Asset Pricing, Mutual Funds and Market Microstructure
Banking and Risk Management
Corporate and International Finance
Corporate Governance
Financial Literacy and Capability
Property
Real Estate Development and Management
Real Estate Finance and Investment

School of Management
Contact: Assoc Prof Bevan Catley
Business Information Systems/Data Analytics
Business Sustainability/Corporate Social Responsibility
Critical Organisation and Management Studies
Employment Relations
Entrepreneurship
Finance
Gender, Diversity and Work
Human Resource Management
International Business
Māori Business and Indigenous Entrepreneurship
Occupational Health and Wellbeing
Public Management
Sport Management
COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

Centre of Defence and Security Studies
Contact: Dr Wil Hoverd
Border and Biosecurity
Defence & Security studies
Intelligence Studies
International Security
Terrorism

Institute of Education
Contact: Prof Howard Lee
Early Childhood Education
Education & Teaching (Adult Education)
Education & Teaching (Early Childhood)
Education (assessment)
Education Leadership
Education (policy)
Educational Psychology
E-Learning and Digital Technologies
Inclusive Education
Mathematics Education
Specialist Teaching
Speech-Language Therapy
Teaching & Learning
TESOL

School of English & Media Studies
Contact: Assoc Prof Bryan Walpert
Academic Writing and Composition Studies
Communication Studies
Creative Activism
Creative Writing: Poetry, Fiction, Non-Fiction, Expressive Arts
Cultural Studies
English Literature: 16th-21st century, Aotearoa New Zealand,
Shakespeare, Popular, Comparative
Language and Literature
Māori and Pacific Literatures
Media and Communication
Media Production
New Media Studies
Public and Professional Writing
Screen and Media Studies
Scriptwriting
Theatre Studies

School of Humanities
Contact: Dr Geoff Watson
Ancient Philosophy
Asian Languages and Cultures
British and European History
Classical Worlds
Discourse Analysis
English for Academic Purposes
Ethics and Political Philosophy
History of War and Peace
Human Capability
Identity in language learning
Indigenous and Heritage Languages
Indigenous History and Philosophy
Justice and Reconciliation
Language Learning and Technology
Latin American Languages and Cultures
Māori History and Philosophy
Medieval History
Migration and Bi/multilingualism
Migration Studies
New Zealand History
Philosophy of Mind
Philosophy of Science
Second Language Teaching and Learning

School of People, Environment & Planning
Contact: Assoc Prof Beth Greener/Dr Trudie Cain
Anthropology
Aotearoa/New Zealand Studies
Comparative Politics
Development Studies
Economic Sociology
Environmental Sociology
Geographical Information Systems
Historical Sociology
Human Geography
International Development
International Relations
Museum Studies
Planning History
Political Sociology
Political Theory
Politics
Public Policy
Resource & Environmental Planning
Rural Sociology
Sustainable Development
Transport planning
Urban Planning

School of Education
Contact: Prof Howard Lee
Early Childhood Education
Education & Teaching (Adult Education)
Education & Teaching (Early Childhood)
Education (assessment)
Education Leadership
Education (policy)
Educational Psychology
E-Learning and Digital Technologies
Inclusive Education
Mathematics Education
Specialist Teaching
Speech-Language Therapy
Teaching & Learning
TESOL

School of English & Media Studies
Contact: Assoc Prof Bryan Walpert
Academic Writing and Composition Studies
Communication Studies
Creative Activism
Creative Writing: Poetry, Fiction, Non-Fiction, Expressive Arts
Cultural Studies
English Literature: 16th-21st century, Aotearoa New Zealand,
Shakespeare, Popular, Comparative
Language and Literature
Māori and Pacific Literatures
Media and Communication
Media Production
New Media Studies
Public and Professional Writing
Screen and Media Studies
Scriptwriting
Theatre Studies

School of Humanities
Contact: Dr Geoff Watson
Ancient Philosophy
Asian Languages and Cultures
British and European History
Classical Worlds
Discourse Analysis
English for Academic Purposes
Ethics and Political Philosophy
History of War and Peace
Human Capability
Identity in language learning
Indigenous and Heritage Languages
Indigenous History and Philosophy
Justice and Reconciliation
Language Learning and Technology
Latin American Languages and Cultures
Māori History and Philosophy
Medieval History
Migration and Bi/multilingualism
Migration Studies
New Zealand History
Philosophy of Mind
Philosophy of Science
Second Language Teaching and Learning

School of People, Environment & Planning
Contact: Assoc Prof Beth Greener/Dr Trudie Cain
Anthropology
Aotearoa/New Zealand Studies
Comparative Politics
Development Studies
Economic Sociology
Environmental Sociology
Geographical Information Systems
Historical Sociology
Human Geography
International Development
International Relations
Museum Studies
Planning History
Political Sociology
Political Theory
Politics
Public Policy
Resource & Environmental Planning
Rural Sociology
Sustainable Development
Transport planning
Urban Planning
COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

School of Psychology
Contact: Dr Natasha Tassell-Matamua
Aging and Retirement
Clinical Psychology
Disaster and Emergency Management
Health Psychology
Indigenous Psychology
Industrial/Organisational and Work Psychology
Community Psychology
Social Psychology
Security and Defence Psychology
Cross-Cultural Psychology
Poverty and Inequality
Discursive Psychology
Domestic Violence, Gender & Sexuality

School of Māori Art, Knowledge & Education (Te Putahi-a-Toi)
Contact: Dr Marg Forster
Māori and Indigenous Knowledge of the Environment
Māori and Indigenous Leadership
Māori and Indigenous Studies
Māori Education
Māori Health
### School of Arts
**Contact:** Prof Heather Galbraith

- Art and Design Publishing
- Art and Design Writing (including criticism, analysis, parallel texts, creative writing, histories etc.)
- Art in Public Space
- Community Art
- Fine Arts
- Māori Visual Arts
- Māori Visual Culture
- Photography
- The Curatorial/Exhibition Making
- Visual and Material Culture

### School of Music & Creative Media
**Contact:** Assoc Prof Andre Koti

- Ethnomusicology
- Experimental Sound Practices
- Music performance and composition
- Music Technologies
- Popular Music Studies

### School of Design
**Contact:** Prof Vicki Karaminas

- Art and Design Pedagogies
- Design for Sustainability
- Design History and Theory
- Exhibition Design
- Fan and Subculture Studies
- Fashion and the Body, Fashion and Sexuality, Fashion and Representations, Fashion and Art
- Fashion Design
- Fashion Installation
- Industrial Design
- Interaction design
- Interactive Media
- Materialism
- Political advertising, marketing, political leadership, election campaigning and visual research
- Spatial/interior and architectural design and theory
- Textile Design
- User experience
- Visual Communication (including Illustration, narrative/storytelling, graphic design, digital media, print design, typography, information design)
- Visual and Material Culture
## Institute of Fundamental Sciences

Contact: Prof Kathryn Stowell/Assoc Prof Paul Plieger

- Applied Statistics
- Biochemistry and Biomedical Science
- Bioinformatics
- Biophysics
- Chemistry and Nanoscience
- Combinatorics
- Computer Science
- Differential Equations
- Epidemiology
- Genetics, Genomics and Evolution
- Information Technology
- Mathematical Modelling
- Mathematical Physics
- Microbiology and Biotechnology
- Molecular and Cell Biology
- Molecular Plant-Microbe Interaction
- Physics
- Plant Biology
- Software Engineering
- Stochastic Modelling
- Structural Biology

## Institute of Natural and Mathematical Sciences

Contact: Prof Dianne Brunton/Assoc Prof Evelyn Sattlegger

- Artificial Intelligence and Big Data Analytics
- Biochemistry
- Biological Sciences
- Cell Biology and Genetics
- Chemistry
- Computer Science and Computer Simulation
- Computer Vision and Parallel Computing
- Data Science
- Evolution
- Information Technology
- Marine Biology
- Mathematical Biology and Modelling
- Molecular and MicroBiology
- Physics
- Pure and Applied Mathematics, Industrial Mathematics
- Quantitative Biology
- Statistics and Bioinformatics

## Massey Institute of Food Science & Technology

Contact: Prof Steve Flint/Dr Jon Palmer

- Food Bioscience
- Food Material Science
- Food Microbiology
- Food Processing and Engineering
- Food Structure
- Food Technology
- Human Nutrition
- Postharvest Technology

## NZ Inst. for Advanced Studies (NZIAS)

Contact: Assoc Prof Evelyn Sattlegger

- Computational Biology and Evolution, Game Theory
- Computational Chemistry
- Ecological Statistics
- Mathematical Biology and Modelling
- Molecular Epidemiology
- Pure Mathematics
- Theoretical Physics

## School of Agriculture & Environment

Agriculture & Horticulture-Contact: Assoc Prof Peter Tozer

- Agribusiness
- Agricultural Innovation & Extension
- Agronomy
- Ecological Restoration
- Environment and Society
- Environmental Studies
- Ethnobotany
- Farm Forestry
- Farm Management
- Farmer Learning
- Food and Fibre Chains
- Food and Resource Economics
- Horticulture/Horticultural Science
- International Rural Development
- Māori and Pacific Horticulture/Agribusiness
- Modelling of Agrifood Systems
- Molecular Pathology
- Molecular Plant-Microbe Interaction
- Natural Resources Management
- Pasture Science
- Pest and Weed Control
- Plant Breeding and Protection
- Plant Photobiology
- Precision Agriculture
- Seed technology and Conservation
- Sustainable Agriculture

## Animal Sciences

Contact: Prof Kevin Stafford/Prof Dave Thomas

- Animal Behaviour
- Companion Animal Science
- Equine Science
- Livestock Science
COLLEGE OF SCIENCES

Ecology & Wildlife - Contact: Dr Masha Minor
Animal Behaviour and Behavioural Ecology
Biodiversity and Biogeography
Botany
Chemical Ecology
Conservation Biology
Conservation and Wildlife Management
Ecosystem Function and Health
Entomology
Evolution and Genomics
Freshwater Ecology
Ornithology
Population and Community Ecology
Species Interaction
Wildlife Disease and Parasitology
Zoology

Earth & Environmental Sciences - Contact: Dr Diane Pearson
Climate Change Policy, Mitigation and Adaption
Economic Geology
Environmental Change and Management
Environmental Foot Printing
Environmental Life-Cycle Management
Environmental System Analysis
Environmental Valuation
Experimental Fluid Dynamics
Geochemistry
Geographic Information Systems
Geomorphology
Geoheritage & Geoconservation
Hydrology
Natural Hazards
Physical Geography
Quaternary Geology
Remote Sensing
Soil Characterization and Land Use
Soil Science
Spectroscopy and Imaging Spectroscopy
Stratigraphy & Sedimentology
Sustainability Sciences
Water Resources & Water Quality
Volcanology

School of Engineering & Advanced Technology (SEAT)
Contact: Dr Khalid Arif

Mechatronics, Robotics and Automation
Additive Manufacturing
Agricultural Automation
Bio-driven Robotics
Biocomposite Materials
Bioinstrumentation and Biosensors
Food Processing Robotic/Mechatronic Systems
Healthcare Robotic/Mechatronic Systems
Intelligent and Autonomous Systems
Industrial Automation
Internet of Things (IOT)
Machine Learning and AI
Machine Vision
Micro/Nano Robotics
Mobile Robotics
Sensors and Biosensors
Smart Textiles
Soft Robotics
3D/4D Printing

Electronics, Information & Communication Systems Engineering (EICSE) Acoustic/Ultrasonic imaging
Advanced Sensor Technology
Communication Systems
Embedded Systems Design
5G and Device to Device (D2D) Communication
Image and Signal Processing
Indoor Localization
Machine Vision
Micro-electronics, VLSI and Integrated Circuits
Non-Destructive Testing (NDT) using Ultrasounds
Power Electronics
Remote Sensing and Internet of Things (IoT)
Telecommunications Network Modelling and Design
3D Computer Vision
Visible Light Communication (VLC)
Wireless Network

Sustainable Processing
Chemical and Bioprocess Engineering
Chewing Studies
Collagen Structure
Crystallisation
Growing Algae
Minerals
Modelling of Food Kinetic Processes
Particle Technology
Refrigeration
Renewable Energy Systems
Smoking of Food
Spray Drying Operations
Stickiness of Powders (mainly food related)
Waste Water Treatment

Industrial Innovation and Management
Collaborative Product Development
COLLEGE OF SCIENCES

Humanitarian Engineering
Products Development and Innovation Management
Quality Management
Six Sigma and Quality Systems
Supply Chain and Logistics

**Computer Science / IT**
Health Informatics
Human-computer Interaction and Socio-technical Design
Scientific Computing
Smart Environments for Home and Industry
Software Engineering
Technology Enhanced Learning

**Built Environment**
Construction Management
Industrial and Commercial Building Services
Insurance Rebuild Costs
Local Authorities and Regulatory Bodies
Productivity and Lighting
Project Management Consultancy
Property Development or Property Management
Sustainable and Healthy Buildings
Supply Chain and Logistics

**School of Veterinary Science**

Contact: Assoc Prof Wendi Roe

Animal Health
Animal Welfare
Companion Animal Research
Epidemiology
Equine Research
Infectious Disease
Molecular Epidemiology
Parasitology
Pharmacology
Production Animal Research
Public Health, One Health and Zoonotic Disease
Veterinary Pathology
Wildlife
COLLEGE OF HEALTH

Centre for Public Health Research
Contact: Prof Jeroen Douwes
Allergies and Asthma
Cancer
Environmental Health
Epidemiology
Health Surveillance
Māori Health and Development
Neurodegenerative Diseases
Non-Communicable Diseases
Occupational Health
Pacific Health
Public Health

New Settler Communities
Pasifika Social Work
Practice-based Research and Evaluation
Sexuality

Sleep/Wake Research Centre
Contact: Prof Philippa Gander/Assoc Prof Leigh Signal
Chronobiology
Diabetes, Cancer and Cardiovascular Disease
Fatigue and Shift Work Management
Role of Sleep and Circadian Disruption in Obesity, Type 2
Healthy Sleep across the Lifespan
Sleep and Mental Health
Sleep in Aging and Dementia

Social & Health Outcomes Research and Evaluation & Whariki Research Centre
Contact: Prof Sally Casswell/Prof Helen Moewakabarnes
Drug Discovery and Development
Drugs and Human Health
Health Administration
Health Care
Health Development and Policy
Health Education
Health Informatics
Health Information Management
Health Promotion
Health Research
Indigenous Health and Development
Māori and Pacific Health and Development
Population Health
Primary Health Care
Public Health

Sports, Exercise and Nutrition
Contact: Assoc Prof Andrew Foskett
Bioactives
Dietetics and Clinical Nutrition
Exercise Prescription
High Performance Sport
Human Nutrition
Human Physiology
Nutrition and Physical activity
Physical education
Public Health Nutrition
Sport Biomechanics
Sport Coaching
Sport Management

Research Centre for Māori Health & Development
Contact: Prof Chris Cunningham
Health and Development:
Māori Health and Development
Pacific Health

School of Health Sciences
Contact: Assoc Prof Rachel Page
Environmental Health
Gut Function
Health Development and Policy
Health Promotion
Health Research
Health Sciences
Metabolic Health
Occupational Health and Safety
Physiology
Population Health
Public Health
Rehabilitation studies

School of Nursing
Contact: Prof Annette Huntington
Ageing and Aged Care
Critical Care Nursing and Patient Experience
Nursing
Primary Health Care and Rural Service Delivery including
Mental Health and Long Term Conditions
Workforce Development especially through the Role of
Nurse Practitioner

School of Social Work
Contact: Assoc Prof Keiran O’Donoghue
Ageing Populations
Children, Young People and their Families
Hauora, Well-being and Disability
Māori Social Work