UC
UNIVERSITY OF CANTERBURY
Te Whare Wānanga o Waitaha
CHRISTCHURCH NEW ZEALAND

Hui Whakapūmau Graduation Programme

Ōtautahi, Christchurch, Ākuhata, August 2025

Ngā Kai o Roto
Contents


University
of
Canterbur

Nau mai, tauti mai | Welcome

Tēnā koutou e ngā kaiwhiwhi tohu paetahi, tohu paerua, tohu kairangi hoki o Te Whare Wānanga o Waitaha. Nau mai, tauti mai ki te hapori mātauranga o te whare wānanga nei.

Greetings to you, the recipients of certificates, diplomas and degrees from the University of Canterbury. Welcome to the community of scholars of this University.

To our graduates and whānau celebrating here with you at this graduation celebration, congratulations on your achievements. After years of hard work and dedication, you have earned your place on the graduation stage.

A graduation celebration is an important occasion, a significant milestone in your life and something you will look back on with pride in the years to come.

We hope your university education, along with the many experiences you have had and the networks you have developed, will open doors for you across Aotearoa New Zealand and around the world.

Graduation signifies your transition to the University of Canterbury's Alumni Community, a cohort of over 140,000 people living around the world, as well as our historical alumni of great innovators and history makers. Take your place amongst them and add to our great story, which began over 150 years ago.

We hope to see you back here at the University in the near future, whether it be for further study, to engage with students through work experience opportunities or to work with researchers on new innovations and developments.

In our world of online connectivity, it has never been simpler to stay in touch, so please remember to share with us what is happening in your world.

Hon Amy Adams
Tumu Kaunihera | Chancellor

Te Ranga Āpiha Whare Wānanga University Officers and Structure

Tumu Kaunihera | Chancellor

Hon Amy Adams, LLB Hons (UC)

Tumu Tuarua Kaunihera | Pro-Chancellor

Hon Poto Williams, MBA (Southern Cross University)

Tumu Whakarae | Vice-Chancellor

Professor Cheryl de la Rey, PhD (Cape Town), MA (cum laude), BA Hons (cum laude), BA (Natal)

Pou Whakarae, Office of Treaty Partnership

Professor Te Maire Tau (Ngāi Tahu), PhD, MA, BA (UC)

Te Amorangi | Pro-Vice-Chancellor Pacific

Distinguished Professor Steven Ratuva, PhD (Sussex), MA (S. Pacific), BA (S. Pacific)

Tumu Tuarua Akoranga Deputy Vice-Chancellor Academic

Professor Catherine Moran, PhD (UC), MSc, BSc (Western Ontario)

Tumu Tuarua Rangahau | Deputy Vice-Chancellor Research & Innovation

Professor Lucy Johnston, PhD (Bristol), MA Hons (Oxford), MSc (Staffordshire)

Pouroki | General Counsel and Registrar

Adela Kardos, LLB (Hons), BA (UC), CELTA (Cambridge)

Te Kaunihera o te Whare Wānanga o Waitaha | University Council

Graduates will be doffed at today's celebration by Tumu Kaunihera | Chancellor Hon Amy Adams, Chair of te Kaunihera o Te Whare Wānanga o Waitaha University Council and the ceremonial head of the University. Similar to a board of directors, the Council is responsible for the governance of the University, including oversight of the institution's policy, degree, financial and capital matters. Membership of the Council is defined by the Education and Training Act, 2020.

Te Ohu Whakahaere Senior Leadership Team

Te Tumu Whakarae | Vice-Chancellor is employed by Council to run the University and is its Chief Executive Officer. The Vice-Chancellor is assisted by Te Ohu Whakahaere Senior Leadership Team, comprised of leaders from the University's faculties and major service units who are responsible for management of their areas and leadership of the University as a whole.

Te Poari Akoranga | Academic Board

The University's principal academic body, Poari Akoranga | Academic Board, coordinates the faculties and is responsible for advising the University Council on all academic matters. It has authority to make recommendations and reports on matters including research, courses of study, students, bursaries and scholarships, prizes and examinations.


Te Whare Wānanga o Waitaha
University of Canterbury

Ngā Hātepe | Order of Proceedings

Tūrei 26 Ākuhata, Hui Whakapūmau i te ata
Tuesday 26 August, Morning Celebration

At approximately 9.45am the piper will herald the entry of the graduates
Please remain seated.

Piper: Tom Glover BE (Hons), Grad Dip Management

Brief silence.

Fanfare (composed by Emeritus Professor John Ritchie)

Entry of the academic procession
Please stand.

Processional March: *Cantuariensium* – The University Song (composed by Dr J. C. Bradshaw, first Professor of Music).
Organist: Martin Setchell

Please remain standing.

Whakatau (Welcome)
The whakatau recognises the place of Ngāi Tūāhuriri as mana whenua and Te Whare Wānanga o Waitaha | University of Canterbury's commitment to bicultural development.

Pao
A call of welcome by a Māori woman representing mana whenua. A representative group of graduates will proceed into the auditorium.

At the conclusion of the pao please be seated.

Mihi
A greeting by Kaihautū Matua | Executive Director, Office of Treaty Partnership Pou Whakarae Professor Te Maire Tau, on behalf of Te Whare Wānanga o Waitaha | University of Canterbury and Ngāi Tūāhuriri.

Waiata
A song, Manu tiria, concludes the Māori welcome (words in back of programme).

Opening greeting by Tumu Kaunihera Chancellor Honourable Amy Adams.

Please stand and join in singing E Ihowā Atua – God Defend New Zealand.
Led by Qiqi Wang and Aidan Soper (words inside back cover and on screen).

Tumu Kaunihera | Chancellor Honourable Amy Adams will open the proceedings.

Tumu Kaunihera
Presentation of Graduates to the Chancellor

Doctoral Degrees

Associate Dean: Professor B. McNeill

Doctor of Philosophy

Lauren Nicole Bland, in Political Science and International Relations

Xiangyi Dong, in Economics

Johnpaul Christopher Smith, in Marketing

Peng Sun, in Economics

Neel Rajesh Vanvari, in Political Science and International Relations

Faculty of Arts

Executive Dean: Professor K. Watson

Master of Arts with Distinction

Jodie Nicole Davies, in Psychology

Charlotte Rose Duff, in Philosophy

Benjamin Samuel Harris, in English

Saoirse Persephone Grace Hill-Shearman, in Cultural Studies

Caitlyn Bethanie McMillan, in Media and Communication

Michael John Miller, in Psychology

Alexandra Pallett Seren-Grace, in Psychology

Christiana Grace Taigel, in History

Josiah Tavita Tualamali'i, in History

Master of Arts

Bianca Marie Amataiti, in Music

Benito Stoakes, in Media and Communication

Master of Applied Translation and Interpreting with Distinction

Jennifer Liu Bromby

Xintao Li

Mengying Qiu

Master of Applied Translation and Interpreting with Merit

Razia Ahmadi

Master of International Relations and Diplomacy with Distinction

Xavier James Dickason

Charles Simon Osborne

Bryce Senosain Vevey

Master of International Relations and Diplomacy

Geoffreyna Leituaso Mafoa

Master of Linguistics with Distinction

Lauren Kay Millar

Master of Māori and Indigenous Leadership with Distinction

Rosemary Anderson

Charlotte Rose Repia

Master of Māori and Indigenous Leadership with Merit

Mamaeroa Merito

Master of Māori and Indigenous Leadership

Anna Faau

Master of Policy and Governance with Distinction

Luke David Baker-Garters

Benjamin David Eric Eaves

Master of Policy and Governance with Merit

Matthew David Cairns

Master of Writing with Distinction

Ashlin Deena Mathews

Charlotte Jayne Bell

Tara Ngaere Hurley

Stephanie Sygnet Ingham

Sophie Julia Grace Taylor-Brown

James Keith Tempero

Susan Pamela Benjie Cornah Tull

Bachelor of Arts with First Class Honours and Bachelor of Arts

Jackson Stratford Head

Emily Rose Shirley Perry

Bachelor of Arts with Second Class Honours (Division Two) and Bachelor of Arts

Thomas Christian Rowley Hemphill

Postgraduate Diploma in Translation and Interpreting with Distinction

Michiko Ward

Postgraduate Certificate in Translation and Interpreting with Distinction

Aseel Ahmad Aiel Al-Azzawi

Conjoint Bachelor of Arts and Science

Ella Jane Braidwood

Bachelor of Arts and Bachelor of Commerce

Jordan Alexander Herbert

Bachelor of Arts and Diploma in Languages

Aroha Anne Connew

Bachelor of Arts and Certificate in Arts

Scott David Janiszewski

Bachelor of Arts and Bachelor of Science

Henrietta Bryony Bullen

Bachelor of Arts

Michelle Jane Andrews

Olivia Charlotte Apatu

Brittany Jayne Ashdown

Sept Narona Belleza

Eva Catherine Anne Bloomfield

Roghan Joseph Botica

Beth Alice Macintosh Broughton

Saffron Ella Ruby Brown

Eliece Isobel Button

Eva Esther Calje-van der Klei

Catherine Amelia Carroll

Luke Alexander Challies

Jackson Alexander Christie

Emilia Dybka

Callum Benedict Allan Entwistle

Megan Mary Erasmus

Alexander Edward Familton
Annabelle Alice Rose Fisher
Sophie Margaret Marie Forbes
Harriet Antoinette Fraser
Teille Emily Gaines
Jessica Louise Gibson
Caroline Ann Gordon
Finn Dai Greenland
Akilah Ramone Smith Hammond
Emma Seguret Hartshaw
Matthew Thomas Hattrill
Grace Anne Heenan
Wing Lam Raven Heung
Vera Anna Hoé
Lily Anna Howson
Emma Maree Iles
Joshua Richard Inglis
Aiden Noel Ireland
Hannah Rose Jones
Melody Ina-Belle Jones
Mahina Johnni Kalauta Kanavatoa
Emma Louise Kelliher
Meg Joy Rose Kinder
Yuya Antonio Konishi
Isabella Catherine Lemond
Tegan Mair Lewis
Amy Caitlin Lowndes
Zelina Francesca Judith Marks
Brylee Marrinia
Ethan John Corry Mattingley
Paige Kathleen McCullough
Cale William McIvor-Seddon
Millar Josef McLauchlan
Emily Ruth McNeill
Maigen Adelle McNulty
Jackie Lee Miller
Rachael Emma Mogey
Hugh Sione Montgomery
Roni Themis Moran
Natasha Morgan
Eseta Claire Navunisaravi
Charis Renee Naylor
Jacob Henry Neal
Campbell John Nicolson
Luke Alexander Patrick O'Sullivan
Franz Joy Sales Pabellon
Hannah Louise Audrey Parker
Riley Charles Parnell
Charlotte Hazel Penman
Biplata Pokhrel
Dominique Catherine Pope
Genevieve Rose Pope
Georgia Lily Roberts-Maidens
Sarah Myra Robertson
Hannah Karen Ross
Dong Xian Ruan
Angel Valerie Rutherford
Joshua Samuel Santich
Ashley Grace Sefton
Grace Ellen Collins Sharman
Holly Orman Shortus
Emebet Solomon
Christine Claire Stewart
Caleb James Asher Strickland
Rira Takahashi
Zhao Qi Tan
Felicia Muco Tanzer
Jackson Roy Teramura-Clayton

Sarah Elizabeth Thomas

Holly Tomlinson

Kady Joyce Tull

Jack Michael Dennis Tuohy

Kristina Varbai

Jasper Todd Fionnlagh Vartan

Mackenzie Ann Walbridge

Louise Marie Waldmann

Jasmine Chihiro Webber

Nico Elliott Wildbore

Madison Louise Williams

Bachelor of Social and Environmental Sustainability and Bachelor of Commerce

Shannon Marie McLean

Bachelor of Social and Environmental Sustainability

Alessandra Maree Ward

Diploma in Arts and Certificate in Arts

Kieran David Fitzwilliam

Diploma in Arts

Taylah Jane Simpson

Master of Strategic Communication with Distinction

Brooke Ruby Sowden

Loredana Francesca Unsworth

Dinda Veskarahmi

Yuying Wei

Qingmou Zhao

Master of Strategic Communication with Merit

Jiayi Chen

Amy Charlotte Philip

Bachelor of Communication

Brook Fullford Bennett

Winston Davey

Zachariah Seth Dawson

Daisy Alice Francis

Claudia Elizabeth Neva Jones

Mollie Gemma McWhannell

Benjamin George Morton-Jones

Francis Jeremy Romero Salcedo

Caleb-Anaru Ngatuere Tawhirimatea Harrison Shadbolt

Lucy Elizabeth Daphne Singer

Jessica Anne Tavendale

Nicholas Walter Vague

Master of Fine Arts with Distinction

Gemma Kimberley Root, in Sculpture

Bachelor of Fine Arts with First Class Honours

Clarise Savannah Lowther

Bachelor of Fine Arts with Third Class Honours and Diploma in Arts

Grace Elizabeth Abigail Nelson

Bachelor of Fine Arts

Rebekah Rachel Smith

UC Business School

Executive Dean: Professor P. Ballantine

Master of Commerce with Merit

Ruiyi Chen, in Taxation

Master of Applied Finance and Economics

Lincoln Andrew Haigh

Master of Business with Distinction

Kenza Alami Marrouni, in Marketing

Caitlin Ellen Clarke, in Marketing

Theodore Quinn Gilbertson, in Financial Management

Gardiya Pramitha Rochana Hewawasan, in Management

Master of Business with Merit

Anna Abdurakhmanova, in Marketing

Zi Yu Chan, in Management

Isha Mahesh Masurkar, in Financial Management

Alia Leilani Binti Rosli, in Management

Aditi Verma, in Management

Master of Business

Shravani Sanyog Deshpande, in Financial Management

Karuna Romil Shah, in Marketing

Joel Ananda Sundra Sagaran, in Management

Master of Business Administration with Distinction

Danny Alexander Berghan

Tessa Helen Datlen-Carter

Samuel Pringle Eames

Kevin Brian Ervine

Katherine Ruth Gee

Katrin Hobson

Allison Elizabeth Joubert

Charru Gaayatri Mohan

Lexie Jean Reuben

Michael David Simcock

Shannon Wright

Master of Business Administration

Tracy Leonie Esme Ahern

Patrick Sheldon Bryant

Nor Aida binti Hj Mohd Nordin

Amandeep Kalra

Simeon Andrew Joseph Lodge

Raquel Joan Miller

Shomya Pandey

Sani Wilson

Master of Business Information Systems with Distinction

Svetoslava Bogomilova Aleksieva Bryant

Aye Min

Abhiram Krishnakumar Nair

Areesha Munira Binti Norman

Zhikai Yao

Yufei Zhu

Master of Business Information Systems with Merit

Xin Gao

Sunny Gulia

Jidapa Ketcharung

Lokesh Paduchuri

Satya Dev Singh

Junjie Tao

Jhih Min Yang

Bowen Zhao

Master of Business Information Systems

Yu Deng

Parikssit Surabh Shah

Ziyu Yang

Yikun Zhao

Postgraduate Diploma in Business

Aswath Kumbalamthuruth Ramesh

Shyamsundar Manikandarajan

Postgraduate Certificate in Information Systems and Technology

Saiyi Yang

Musical performance midway through the presentation of graduates

UC Music Quartet presents Francois Devienne: Quartet Op. 73 No. 1 in C major

Please remain seated. No entry to, or exit from, the hall during this performance.

Bachelor of Commerce

Nur Hamidah binti Abdul Jabbar

Zakiyyah Anis Binti Alimi

Aperahama Amiri Chiloon Anaru-Astwood

Ainin Sofiya Binti Aziz

Aljin Maris Martos Balili

Albert Stanley Bell

Alan Benny

Nur Syazana Binti Husaini

Ainnur Shasya Dayini Binti Jamros

Nur Fatimah Azzahra Binti Mohd Saufi

Maryam Binti Zainuddin

Reuben David Boyes

Kade William Ross Bramwell

Jacob Pangan Cabanlong

Chloe Dorothy Carr Paterson

Isabella Jane Muhan Lin Carter

Reagan Brooke Chamberlain

Kate Alice Charteris

Banxi Chen

Lisa Robyn Christie

Reid Norton Clancy

Finn Henry Clarke

Logan Thomas Clarke

Flynn William Cochrane

Logan James Connor

Muhammad Haiqal bin Deski Samad

Oliver Geoffrey Dew

Samuel George Dickie

Lachlan John Gavin Doyle

Joseph William Spark Drury

Engku Dalia Yasmin Binti Engku Mohd Azmi

Jonny James Evans

Rebecca Lelea'i Eleanor Fala

Oliver David Farag

Aizelle Quintela Fernandez

Victoria Kathleen Fisher

Jane Greaselly Flores Vilchez

Jack Antonio Forrest

Jessica Maree Frost

Sophie Lee Fiona Gardyne

Connor William Bruce Graham

Zack Darren Green

Jacob John Grove

Cooper Mitchell Haines

Lexus Maya Hanson

Abdiqani Nur Hassan
Ikram Nur Hassan
Alistair Holmes Hayes
Carlos Taua-Tini-O-Arera Heather
Farina Zhoriifah Binti Helmy Zaidi
Rowan Lucy Hickey
Annabelle Dorothy Mae Hodder
Jack Richard Bruce Hollamby
Jacob Ian Howison
Lawson Charles Inglis
William Thomas Jordan
Amy Juriss
Ellie Rose Keenan
Sam Douglas Battyanyi Le Quesne
Ju Yeon Lee
Ella Mary Leith
Hoi Fung Leung
Tyler Phillip Levington
Chelsea Hope Lewis-Greenham
Yanyu Li
Yuxiangde Li
Chenxi Liang
Reilly James Liddell-Williamson
Cameron Allan Long
Marlia Binti Mahmud
Han Tong Bao Mai
Bronte Elizabeth Malcolm
Antonette Dizon Mano
Lee William McGregor
Ben Gregory John McIntyre
Quentin John McIntyre
Grace Emily McNabb
Shazani binti Md Sham Miri
Caleb Frano Mihaljevic Middlemiss
Emir Amani Bin Mohamad Nasir
Nur Fatin Aqilah Binti Mohamad Shukri
Izzat Danial Mohamed
Oscar Morton
Charlie Angus Newsome
Sabrina Lisset Officer
Grace Violet Olsen
Armando Shaun O'Shannessey
Henry Robert Payne
Gianni Francesco Pessione
Ka Hei Poon
Yifan Qin
Nur Ainul Mardhiah Arif Binti Ramlee
Johannes Nicolaas Ras
Thomas William Rea
Avigail Catherine Elizabeth Richardson
Joshua Michael John Richmond
Alexander John Michael Ross
Nurul Huda Binti Salim
Luke Stephen Scott
Lucy Isabella Semple
Mohamed Jasran Seyed Farook
Nur Sabrina Binti Shariffuddin Ali
Matthew Campbell Shearer
Hannah Grace Simpson
Primo Gurgot Singh
Matthew Cleon Sinma
Hugo Tayler Smith
Marshall John Soanes
Patrick Donald Stanley
Danielle Amy Stevenson
Dian Qiu Tang
Rayhan Aristia Tjoa
Bao Phuc Tran
James Bentley Wakelin
Oscar Henry Waldegrave

Wan Ainul Afiqa Wan Azman

Levi David John Noel Ward

Shanaya Rose White

Tane Alexander Hirawani Williams

Sarah Kate Wilson

Alicia Theng Rong Yap

Rui Yin

Yufan Zhang

Diploma in Commerce

Azkiya Tabbasum Mohammed

Faculty of Law

Executive Dean: Professor P. Butler

Master of Laws (International Law and Politics) with First Class Honours

Becky Sprau Carlson

Yin Yin Chai

Lianne Audrey Dalziel

Matthew Douglas Penno

Master of Laws (International Law and Politics) with Second Class Honours (Division Two)

Maurice Arthur Austin

Bachelor of Laws with First Class Honours and Bachelor of Arts

Rana Cawley

Lucia Isabel Fuller

Alice Kathleen Tiso

Bachelor of Laws with First Class Honours and Bachelor of Commerce

Angus James Cuthbert

Bachelor of Laws with First Class Honours

Asta Elizabeth May Hinton

Bachelor of Laws with Second Class Honours (Division One) and Bachelor of Commerce

Pauline Caringal Dela Cruz

Bachelor of Laws and Bachelor of Arts

Piper Kathryn Tishey Adamson

Caitlin May Baber

Alexandra Jayne Brown

Neve Maia Campbell Reinheimer

Chiara Alison Dunlop

Amy Elizabeth Agnus Eveleigh

Harriet Grace Evans Kennelly

Nikhil Prakash

Tessa Elizabeth Rayner

Bachelor of Laws and Bachelor of Commerce

Bennet Clifton Anderson

Madeline Irene Anderson

Todor Cvetanov

Saskia Hannah Dunlop

Dylan Graeme Albert Johnson

Pamela Karen Bandojo Sapico

Bachelor of Laws and Bachelor of Criminal Justice

Joseph Matthew Hoole

Madeleine Rose Newton

Charne Schwartz

Bachelor of Laws and Bachelor of Health Sciences

Catherine Gabrielle Thwaites

Bachelor of Laws and Bachelor of Science

Samantha Rose Plows

Bachelor of Laws and Diploma in Commerce

Isabella Grace Shillito

Bachelor of Laws and Certificate in Arts

Marize Ras

Bachelor of Laws

Veronica Elsie Bagley
Lawrence Redmond Birch
Claudia Rose Bouvet
Nathan William Chase Brookes
Sandra Elizabeth Butler
Ti-Hua Chang
Lauren Breanna Louise Finnie
Sophie Catriona Flett
Andrei Golovko
Alyxys Joan Seo-as Kigis
Austin Roy Lamberg
Saskia Anne Lane
Joshua Tony Mortensen
Mikayla Grace Nortman
Rosemary Janet Pearcy
Oliver Arnold Persson
Dominique Aba Quainoo
Ronjay Marini Ayag Reforial
Hugh Charles Russ
Josephine Sit
James Graham Tavendale
Alex Adi Turner-Robinson
Bella Rose Wagenvoord
Xuyang Wang
Taulesulu Olevia Westerlund
Olivia Sara Wilkie
Justin John Williamson
Chang Xi
Guy Nicolas Yarrell
Yao Zhao

Master of Criminal Justice with Distinction

Natalia Sabrina Iacono Porcel
Jeremy William Procter

Master of Criminal Justice with Merit

Coen Kennedy Kilcullen
Negeen Sanaei

Bachelor of Criminal Justice

Cody Leslie Adlam
Kirsten Lee Atkinson
Sian Chrissy Cummins Badcock
Kate Erin Bassick
Sarah Kate Beck
Ria Raj Bhuranda
Sandray James Bourke
Rosie Amelie Burns
Raja Keith Dinesh Chand
Jacob Graeme Craig
Kimberly Jane Deans
Paige Emma Dollimore
Mackenzie Ella Cathryne Dowell
Cooper James Gibb-Faumuina
Saskia Lulu Green
Natashia Siulia Ieti
Rhian Kelly-Hulse
Mikaela Rose King
Taylor Paula Lovell
Rainbow Manley
Tumaru Rebbecca Mataio
Crystal Teresa McLenaghan

Lilly Grace Neame

Tiaan Raukatauri Owen

Naomi Tania Palmer

Shirley Vandhana Prasad

Sheik Abdulahad Saheb

Sian Lily Margaret Southall

Lokni Jacob Stevens

Mia Olive Turner

Georgia Elaine White

Ethan Christopher William Wilson

Samantha Rebecca Woolford

Certificate in Criminal Justice

Alexis Anne Gordon

Sumeet Sanil Jagan

Nathaniel Uther Walton

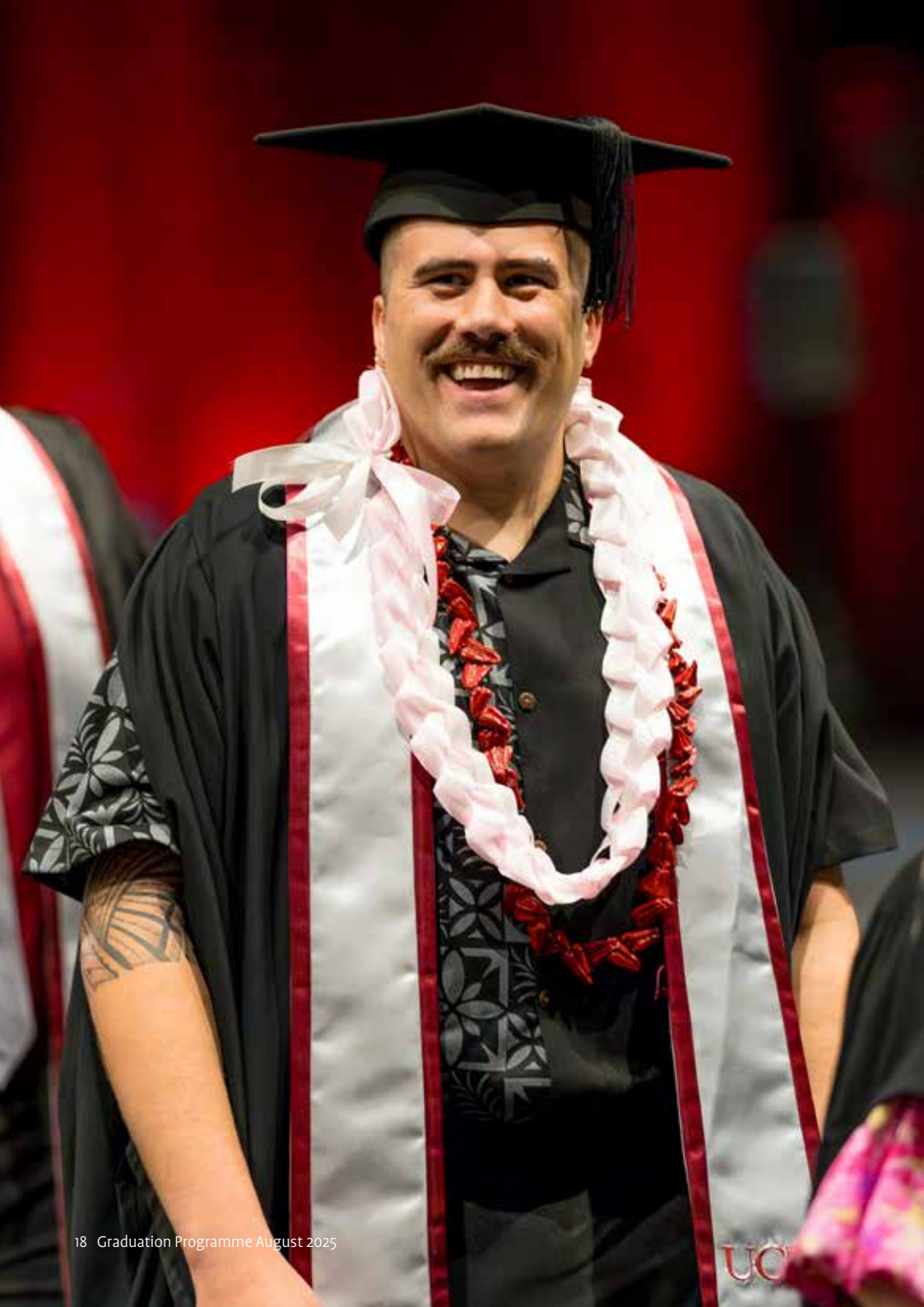
Graduation Address
Delivered by Luc MacKay

Close of proceedings
Delivered by Tumu Whakarae
Vice-Chancellor

When announced, please stand and join in singing *Gaudeamus* (words inside back cover).

Please remain standing until the academic procession and graduates have left the auditorium.

Recessional Organ Music: *Graduation March in G* (Henry Smart).



Ngā Hātepe | Order of Proceedings

Tūrei 26 Ākuhata, Hui Whakapūmau i te ahiahi
Tuesday 26 August, Afternoon Celebration

At approximately 1.45pm the piper will herald the entry of the graduates
Please remain seated.

Piper: Tom Glover BE (Hons), Grad Dip Management

Brief silence.

Fanfare (composed by Emeritus Professor John Ritchie)

Entry of the academic procession
Please stand.

Processional March: *Cantuariensium* – The University Song (composed by Dr J. C. Bradshaw, first Professor of Music).
Organist: Martin Setchell

Please remain standing.

Whakatau (Welcome)
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A representative group of graduates will proceed into the auditorium.

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Waiata
A song, Manu tiria, concludes the Māori welcome (words in back of programme).

Opening greeting by Tumu Kaunihera Chancellor Honourable Amy Adams.

Please stand and join in singing E Ihowā Atua – God Defend New Zealand.
Led by Qiqi Wang and Aidan Soper (words inside back cover and on screen).

Tumu Kaunihera | Chancellor Honourable Amy Adams will open the proceedings.

Tumu Tuarua Kaunihera
Presentation of Graduates to the Chancellor

Doctoral Degrees

Associate Dean: Professor B. McNeill

Doctor of Education

Lynne Davis Connor

Isaac Philip Day

Susanna Mary Wilson

Doctor of Philosophy and Postgraduate Diploma in Science with Distinction

Jade Anne Humphrey, in Geology

Doctor of Philosophy

Simon James Blue, in Mechanical Engineering

Joanne Catherine Borren, in Health Sciences

Park Min Chul, in Audiology

Lachlan Mackay Crawford, in Mechanical Engineering

Mathew John Darling, in Disaster Risk and Resilience

Pavithran Devananthan, in Mechanical Engineering

Harry William James Dobbs, in Computer Science

Siqi Dong, in Civil Engineering

Phoebe Kate Eggleton, in Health Sciences

Richard James Morrin Ellingham, in Bioengineering

Henry Joseph William Hickman, in Computer Science

Tessa Carol Hiscox, in Microbiology

Felipe Andres Kuncar Garcia, in Earthquake Engineering

Nicholas Ning Lam, in Mechanical Engineering

Marlene Anne Leggett, in Biological Sciences

Yunying Liang, in Education

Nyasha Makaruse, in Audiology

Brooke Louise Matthews, in Chemistry

Mariah Aroha McDonald, in Mechanical Engineering

Tyler Jordan McNabb, in Geography

Nor Sharliza Binti Mohd Safaai, in Chemical and Process Engineering

Jennifer Moir, in Psychology

Jack Muir, in Chemical and Process Engineering

Sophie Adelaide O'Brien, in Ecology

Ali Bassil Mohammad Othman, in Electrical and Electronic Engineering

Oliver Henry James Ploeg, in Psychology

Francis Craig Pooke, in Mechanical Engineering

Sangeeta Prasad, in Education

Amelia Samandari, in Computer Science

Sulaiman Sarwary, in Disaster Risk and Resilience

Aaron Eric Smith, in Computer Science

Madeline Dana Stone, in Chemical and Process Engineering

Sofie Joanna Studholme, in Physics

Rachel Mary Teen-O'Teachain, in Water Resource Management

Karan Amol Titus, in Renewable Energy Engineering

Michael James Williams, in Mathematical Physics

Aminu Hassan Yusuf, in Chemistry

Xueqi Zhang, in Chemical and Process Engineering

Zhe Zhang, in Civil Engineering

Te Kura Tāura
UC Graduate School

Associate Dean: Professor B. McNeill

Master of Philosophy

Amaya Nirmani Hitihami Appuhamilage, in Product Design

Jonathon David MacIntyre, in Fire Engineering

Megan Sook Hing Tan, in Biological Sciences

Faculty of Education

Executive Dean: Professor J. Nuttall

Master of Education with Distinction

Adela Imagene Brown, in Literacy

Katrina Jayne Bunn, in Hōaka Pounamu: Te Reo Bilingual and Immersion Teaching

Tanya Marie Kenworthy, in Leadership

Anita Mary Nicholls

Master of Education with Merit

Jing Bi

Janina Katharina Good, in Leadership

Jessie Susan Kathleen Lauder

Kate Emily Whelen, in Teaching and Learning Languages

Master of Education

Georgia Kathryn Fergy Kimpton, in Inclusive and Special Education

Master of Specialist Teaching with Merit

Te Wai Haa Rangi Patricia Biddle-Amoroa, in Learning and Behaviour

Master of Teaching English to Speakers of Other Languages with Distinction

Frances Siew Wei Ngui

Taylin Cleo Pearson

Laura Xavier Assumpcao

Chuqiao Xu

Xuan Zuo

Master of Teaching English to Speakers of Other Languages with Merit

Xinmeng Yang

Master of Teaching English to Speakers of Other Languages and Graduate Diploma in Teaching and Learning

Kaitlin Shikoski

Master of Teaching English to Speakers of Other Languages

Monireh Etminan

Lina Yan

Jiayi Zhang

Postgraduate Certificate in Teaching English to Speakers of Other Languages

Diana Jocelyn Castillo Millan

Charlotte Elizabeth Clements

Graduate Diploma in Teaching and Learning

Keriata Poto Kurene

Ryan Terrence McLaughlin

Graduate Diploma in Teaching and Learning (Early Childhood)

Kahurangi Rose Stone

Bachelor of Teaching and Learning (Early Childhood)

Tianlang Chen

Learna Woods Crosby

Olivia Mackenzie Hair

Jenna Annette Pannett

Bachelor of Teaching and Learning (Primary)

Jessica Lynne Agnew

Nita Elsie Allen

Mikayla Lesley Cameron

Giana Angela Clark

Rebeka Tarati Mckenzie Tuari Fair

Holly Margaret Haig

Ashna Ashneeta Mannu

Kyu Seo Park

Tasmin Huia Dawson Taylor

Diploma in Education and Learning

Nell Elizabeth Fisher

Georgia Rose Wilson

Bachelor of Youth and Community Leadership

Robeteiti Baua

Serenity Lorraine Tahnuli Fidow

Faculty of Health

Executive Dean: Associate Professor C. Andrew

Master of Counselling with Distinction

Chiaki Bolam-Smith

Daniela Florencia Jolly

Eamonn Anthony Lowe

Master of Health Sciences Professional Practice with Distinction

Neethu Anand

Dmitrii Maliasev, in Health Information Management

Master of Health Sciences Professional Practice with Merit

Rebecca Joseph, in Palliative Care

Franziska Dorothea Kerdemelidis, in Health Behaviour Change

Fiona Vattappalath Sabu

Master of Health Sciences Professional Practice

Divya Antony

Postgraduate Diploma in Child and Family Psychology

Emma Kate Marrison

Postgraduate Diploma in Health Sciences with Distinction

Amber Louise Vera, in Health Leadership and Management

Postgraduate Diploma in Health Sciences with Merit

Priyanka Sanjay Desai, in Health Leadership and Management

Pallavi Singh, in Health and Community

Shameer Valappil

Abby Kate Wright, in Taha Hinengaro - Health and Wellbeing Practice

Postgraduate Certificate in Clinical Teaching

Lucinda Anne Hickman

Emily Louise Ide

Olivia Julie Enid Rogers

Ronelle Margaret van Dongen

Postgraduate Certificate in Counselling Studies

Lynette Susan Hardman

Bachelor of Health Sciences

Caitlyn Ann Jerard

Susana Mateaki-He-Lotu Kaufononga

Preston Joel Pickworth

Matthew Thomas Taylor

Veisinia Koaupeteulava Veikoso

Jade Isabel Vesty

Imagine Haley Ahyoka Weatherford

Master of Sport Science

Shreyash Bandu Jamdar

Bachelor of Sport Coaching

Erick Esteban Carreno Espinoza

Rosa Annabel Ellingham

Luke Phillip James Foster

Ellis Jakob Hare-Reid

Tomas McNamara Higgins

Ethan Bailey Latimer

Richard David Lennox

Emma Rochelle Miles

Avi Prabhakar

Samuel Ian Rei Porter-Samuels

Meg Olivia Rongen

Charlie Jack Steer

Sarah Paige Valintine

Jack Robert Wylie

Certificate in Sport Coaching

Ruby Grace Hull

Molli Maria O'Neill

Master of Social Work with Distinction

Tyler Mae Davies

Master of Social Work with Merit

Takofe Jim Kalauta

Master of Social Work (Applied) with Distinction

Christina Sophie Greenwood

Master of Social Work (Applied) with Merit

Ashley Alice Rafferty

Faculty of Science

Executive Dean: Professor S. Parsons

Master of Science with Distinction and Postgraduate Diploma in Child and Family Psychology

Kimberly Renee Ballam, in Child and Family Psychology

Chloe Sherie Fraser, in Child and Family Psychology

Zara Noor Kashkari, in Child and Family Psychology

Preethi Anne Lawerance, in Child and Family Psychology

Hannah Louise McLeod, in Child and Family Psychology

Master of Science with Distinction and Bachelor of Arts

Keito Matsumoto, in Industrial and Organisational Psychology

Master of Science with Distinction

Quin William Aicken Davies, in Astronomy

Jack Liam Anderson, in Ecology

Matthew John Elliot Archbold, in Psychology

Daniel Ciaran Craig Bain, in Disaster Risk and Resilience

Danielle Catherine Bishop, in Biological Sciences

Saskia Katharina Brown, in Biological Sciences

Ethan Cole Bull, in Astronomy

Haris Ali Butt, in Industrial and Organisational Psychology

Lachlan James Campion, in Mathematics

Chrizia Nicole De Vera Cayanan, in Medical Physics (Clinical)

Jonathan Isaac Gerard Coulson, in Biological Sciences

Sarah Louise Crossen, in Child and Family Psychology

Elysha Maiwenn De Rybel, in Biological Sciences

Ella Luciana Farrugia, in Environmental Science

Finnegan Linus Ferguson-Lees, in Industrial and Organisational Psychology

Daniel Peter Foss, in Biological Sciences

Nathan James Gapes, in Medical Physics

Rene Martin Gimpl, in Chemistry

Georgia Sarah Mae Gwatkin, in Biological Sciences

Paul Alexander Hulston, in Industrial and Organisational Psychology

Kwanho Kim, in Statistics

Ling Qian Li, in Industrial and Organisational Psychology

Wai Ho Li, in Industrial and Organisational Psychology

Deborah Tina Manton, in Biological Sciences

Tayla Grace Marshall, in Environmental Science

Jack William Delahunty McMecking, in Water Science and Management

Melinda Ruth Meuli, in Industrial and Organisational Psychology

Maddison Jo Mitchell, in Psychology

Sophie Harriet Judith Nelson, in Industrial and Organisational Psychology

Julia Gwendoline Hayes Palmer, in Biological Sciences

Hunter John Price, in Water Science and Management

Keighley Emmie Robertson, in Industrial and Organisational Psychology

Bella Kate Rothwell, in Child and Family Psychology

Olivia Joy Elizabeth Selwood, in Child and Family Psychology

Heather Romayne Sinclair-Wentworth, in Astronomy

Laura Anne Somerville, in Geography

Manon Anne Van Zyl, in Physics

Sophia Louise Witham, in Mathematics

Evelyn Mei Shi Yeo, in Medical Physics

Master of Science with Merit, Bachelor of Arts with Second Class Honours (Division One) and Bachelor of Arts

Katrina Lynda Robertson, in Psychology

Master of Science with Merit

Zoe Diana Daisy Ambrose, in Biological Sciences

Alaina Maeve Baker, in Environmental Science

Caitlin Elizabeth Booth-Richards, in Industrial and Organisational Psychology

Gabriel David De Leon Garcia, in Cellular and Molecular Biology

Stephanie Pamela May Dorreen, in Psychology

Meg Christina Grace Laker, in Psychology

Spandan Mukherjee, in Industrial and Organisational Psychology

Mariana Nunes Bermudez Rodrigues, in Psychology

Sheen Francis Dianne Esteban Reyes, in Psychology

Ella Grace Richardson, in Industrial and Organisational Psychology

Master of Science and Bachelor of Science with Second Class Honours (Division One)

Sarah Grace Mabin, in Disaster Risk and Resilience

Master of Science

Esme Phyllis Lillian Maillard, in Psychology

Master of Water Resource Management with Merit

Matthew Joseph Jones

Master of Antarctic Studies with Distinction

Hubertha Sophia Wichers

Master of Applied Data Science with Distinction

Ting Cheng

Margarita Grishechkina

Amber Sarah Halton

Haimin He

Nelson Philip Pearson

Elliot Jack Stephenson

Hongyu Su

Fang Tan

Qing Yang

Yuxia Yang

Chenyang Zhao

Master of Applied Data Science with Merit

Sergio Alberto Alvarado Molina

Hydin Antony

Diana Carolina Castano Castano

Siyuan Huang

Linchun Lu

Pretty Mathew Punnoor

Jacob Athol Reid

Shahron Shaji

Junpeng Shu

Fahad Ahmed Syed

Jingjing Xia

Xuemeng Yan

Fan Yu

Master of Applied Data Science

Ann Benji

Andre Brescancini De Vito

Jeena Joseph

Karthik Ananthanarayanan Mahadevan

Shantikrishna Panicker

Viet Hang Pham

Calvin Joseph Pigarez

Christoinette Monaana Momolilaauifogaa Tausa

Xiaowen Yu

Master of Artificial Intelligence with Distinction

Ruben Luke Castaing

Reilly James Haskins

Lachlan Steel Jones

Patrick Francis Whiting

Yang Zong

Master of Artificial Intelligence with Merit

Timothy George Lindbom

Adam Joshua Venroy

Zhun Yang

Master of Artificial Intelligence

Harsha Valagerehalli Manjunatha

Master of Urban Resilience and Renewal with Merit and Bachelor of Arts

Hannah Jane Robertson Ashton

Master of Urban Resilience and Renewal with Merit

Ben Cameron John Hendrie

Tanya Catherine Smith

Haoze Wang

Professional Master of Geospatial Science and Technology with Distinction

Hannah Mei Ling Yeo

Professional Master of Geospatial Science and Technology with Merit

Chida Nanda Chapagain

Bhawana Kafle

Bachelor of Science with First Class Honours and Bachelor of Science

Harrison Arch Donald Cooper

Bachelor of Science with First Class Honours

Celiece Katrena Clarke

Bachelor of Science with Second Class Honours (Division One)

Levi Nate Michael McNabb

Bachelor of Science with Second Class Honours (Division Two)

Ryan Michael Hastie

Bachelor of Environmental Science with First Class Honours

Blair John Galvin

Sho Kojima Mathieson

Postgraduate Diploma in Applied Data Science

Anju Eldhose

Postgraduate Diploma in Clinical Psychology

Lihini Wasundara Mendis

Andrea Brigid Musgrave

Postgraduate Diploma in Science with Merit

Daphne Nicole Moreno Jarpa, in Biochemistry

Postgraduate Diploma in Science

Michelle Thinnasagaren, in Psychology

Postgraduate Certificate in Antarctic Studies with Distinction

Ken Livingston

Postgraduate Certificate in Antarctic Studies with Merit

Geoffrey Gordon Falkenmire

Postgraduate Certificate in Geospatial Data Science with Distinction

Sophie Anne Stuart

Postgraduate Certificate in Science

Peng Dong, in Data Science

Musical performance midway through the presentation of graduates

UC Music Quartet presents Francois Devienne: Quartet Op. 73 No. 1 in C major

Please remain seated. No entry to, or exit from, the hall during this performance.

Graduate Diploma in Science

Lori Andrea Rankin

Bachelor of Science and Bachelor of Arts

Isabella Moya Louise Spong

Bachelor of Science and Bachelor of Commerce

Tahlia Jo-Anne Jane Robinson

Bachelor of Science

Calen John Bryan Anderson
Karen Adriana Baquita
William John Bargh
Zack Harrison Bennett
Cindy Bond
Crystal Angeline Brown
Nathan Curtis Burch
Penny Mary Burridge
Eden Joan Belle Butterworth
Joshua Elliot Caldwell
Nicholas James Camp
Blake Liam Campbell
Reuben Levick Carrodus
Jack Henry Castle
Alexandra Mei Ling Cater
Bryson Jacky Chen
Chen Chen
Kangzheng Chen
Brayden Marc Clapp
Joseph James William Collins
Adam Thomas Cragg
Joshua Glen Crankshaw
Tom Donald-George Crawford
Lucy Julia Aqushla Crockett
Dhanalakshmi Danthakani
Emma Ruth Devlin
Linley Anne Earnshaw
Jack David Eggleston
John Henry Elliott
Charlotta Josefina Farrant
Asher Tomas Flynn
Sean Cameron Frogley
Solange Gailhard
Ashutosh Gauniyal
Pascal Diego Gea
Isabella Claire Gibson
Aniela Neda Grbavac
Samuel Davidson Grundy
Jack Robert Gulliver
William Timothy Hamilton
Ruby Josephine Harris
Mya June Harvey
Duncan Alan Harvie
Helaman Hamilton Hatcher
Guy David George Heslop
Juliana Rose Hodgkinson
Sam Mark Hopkins
Kate Elizabeth Huggins
Marshall Lester Inch
Benjamin James Ironside
Brae Peter Carl Jones
Justine Star Kairau-Mortimore
Eva Ellen Jones Kerton

Eddie-Adam Kotze
Sophia Lisa Larkin-Boyer
Piper Tamsin Lavery-Coulson
Annika Elin Hickson Lehmann
Jacob Thomas Liddle
Emily Rose Massey
Lucas James Matheson
Amelia Grace Mephan
Olivia Hannah Millar
Ahmick Grant Montana
Aidan Russell Morris
Jelena Mrkailo
Summer-Rose Kayla Murphy
Zachary George Newton
Falefitu Puni One
Sai Kiran Pandranki
Naga Apoorva Patelkhana
Sarah Kate Peterson
Jonty Ray Pinkerton
Radu-Theodor Pop
Fenton Sho Prickett
Isaac Quinn
Anita Angelina Reale
Xaia Meghana Reddy
Andrew Findlay Rennie
Abigail Jane Reynolds
Jordan Elisha Melville Riddell
Trinity Joan Ries
Libby Jane Vinnell Rodda
Benjamin Ian Rodger
Paige Brianna Rushton
Ezra Samy
Connor James Sawyer
Ching Ying Athena Seak
Clayton Aaron Shadbolt
Fiona Grace Sharp
Taisei Shimizu
Emily Jane Isabella Smith
Liam Russell Murray Stanton
Shane Philip Stewart
Sophie Eileen Stewart
Sharon Phonglada Sudjai
Sofonias Tekele Tesfaye
Georgia Rose Traforti
Paris Jayde Wardle
Oliver Thomas Welch
Joshua Michael White
Hazel Jane Williams
Matthew Graeme Wild Wilson
Madeline Elise Woods
Xiyu Xiao
Itsuki Yoneyama

Bachelor of Data Science

Omarshehaab Ali Abdi
Kota Arai
Beilang Fan
Jaden Pico Shuttleworth
Sarah Riley Tervoort
Trien Lam Truong

Diploma in Science

Teweldeberhan Gebrehiwet Moges
Terrence Ethan Dinglasan Mendoza

Master of Audiology with Distinction

Hannah Alice Kalihi Alcock
Erica Tze Qin Chung
Fleur Louise Delugar
Meila Jean Gillam
Joshua Ian Reynolds
Sonia Kokatnur
Yuqi Xie

Master of Audiology with Merit

Sophia Alice Jane Ambrose

Isiah Parker Atherton

Chemae Evelin Bell

Hanson Yu Feng Chong

Ella Clare Dyson

Bachelor of Speech and Language Pathology with Second Class Honours (Division Two)

Veronika Chensky

Faculty of Engineering

Executive Dean: Professor S. Sinha

Master of Architectural Engineering with Distinction

Krizzia Valerie Valdellon Concepcion, in Integrated Building Design

Sigang Xie, in Building Services and Energy Engineering

Master of Architectural Engineering with Merit

Dmitrii Khropach, in Integrated Building Design

Neha Razvi, in Integrated Building Design

Dianne Angelynne Lim So, in Integrated Building Design

Master of Architectural Engineering

Akash Ghag, in Integrated Building Design

Amal Sha Mahim Kutty Bushra Mol, in Structural Engineering

Master of Civil Engineering with Distinction and Diploma in Global Humanitarian Engineering

Dean William Banks, in Water Engineering

Master of Civil Engineering with Distinction

Martin James Connell, in Earthquake Engineering

Master of Civil Engineering with Merit

Adrian Christian, in Construction Management

Anurag Vinayak Mane

Viraj Venkatesh Pagi, in Construction Management

Anil Kumar Videla, in Earthquake Engineering

Master of Civil Engineering

Shanmukha Siva Naga Venkata Madhav Addala, in Construction Management

Shiva Kumar Akkala, in Structural Engineering

Keerthana Amuthan, in Transportation Engineering

Cerin Antony, in Transportation Engineering

Dharmik Ratilal Barvaliya, in Construction Management

Anjali Bindu Sabulal

Surya Bindu, in Structural Engineering

Shubh Prabhakar Dixit

Thanuj Gowda Halekoppalu Venkatesha, in Construction Management

Syama Jayan

Sajna Kadakattu Ali Sadiq, in Construction Management

Sneha Dilip Kalband, in Construction Management

Mohammad Tanvir Hayat Khan

Namruth Kumar Kolikapongu, in Construction Management

Merlin Mathai, in Transportation Engineering

Akshay Mohan, in Geotechnical Engineering

Arathy Krishna Mudilikulam, in Earthquake Engineering

Irfana Muhammed

Ishika Balkrishna Mulik, in Construction Management

Mohammed Fazil Pallivalappil, in Structural Engineering

Ron Samuel

Taranjeet Singh

Parvathi Suresh, in Construction Management

Aparna Suseela, in Construction Management

Nivya Varghese Vadukkoot, in Construction Management

Sriram Venkatesan, in Construction Management

Jiafei Yin, in Geotechnical Engineering

Master of Engineering with Distinction

Samuel Clayton Dougherty

Oliver Hawke Marchl, in Mechanical Engineering

Finn Todd Petersen, in Mechanical Engineering

Master of Engineering

Christopher Phillip Bull, in Electrical and Electronic Engineering

Julian Maciel de Souza Pereira, in Electrical and Electronic Engineering

Joshua David Dobbinson Wight, in Civil Engineering

Master of Engineering Management

Hariharan Chitarkadu Gunasekaran

Lakshmi Natarajan

Master of Engineering Studies with Distinction

Palak Verma, in Renewable Energy

Master of Engineering Studies with Merit

Abin Kurian, in Renewable Energy

Master of Engineering Studies

Edwin Bento, in Mechanical Engineering

Haady Firoshkhan Ebrahim, in Mechanical Engineering

Tharindu Dilshan Hendavitharana, in Renewable Energy

Arsh Kalla, in Renewable Energy

Zijing Liu, in Renewable Energy

Rahul Sudhakaran, in Mechanical Engineering

Master of Mathematical Sciences with Distinction and Bachelor of Science

Max Peter Cotton Croucher, in Mathematics

Master of Mathematical Sciences with Distinction

Merlyn Flame Barrer, in Computational and Applied Mathematics

John Colin McLachlan, in Mathematics

William Charles Semple, in Financial Engineering

Jacob Thomas Shaw, in Mathematics

Master of Human Interface Technology with Distinction

Jiaxuan Ling

Master of Human Interface Technology with Merit

Nicholas Richard Harding

Bachelor of Engineering with First Class Honours

Oscar Andrew Donald Johnson

Bachelor of Engineering with Second Class Honours (Division One)

Alisha Joanne Bedggood
Marvin Luarez Brimon
Rebecca Rose Craven
Iyzach Shane Russell den Dulk
Daniel Duan
Daniel James Hawes
Logan Ronald Henderson
Ryan James King
Lucas Alexander Monteath
William Arthur Rawlins
Allan Murray Taylor
Thomas Angus Thwaites
Ethan Andrew Robert Wildash-Chan
James Matai Woodcock

Bachelor of Engineering with Second Class Honours (Division Two)

Max Wilson Abbot
Ammar Bin Ariffin
Kalpa Eranda Athapatthu
Abbey May Canton
Jack Michael Cunniffe
Kaleb Alastair Finn
Mukesh Gaddam
Clara Xorla Michelle Gikunoo
Finn Benjamin Holden
Charlie Leo Marshall Holmes
James Zico Hunt
Danish Khursheed Jahangir
Amelia Rose Josephson
Rania Nisar Kaskar
Se Hyun Kim
Ben Carlos Meneghini
Shoi David Nagase
Jonathan Owen Nicholas
Liam David Nicholas
Emma Ann Petrie
Ch'ng Chuan Ping-Sheridan
Michael David Rivers
Henry Robert Twentyman
Aaron Teck Shin Wong

Bachelor of Engineering with Third Class Honours

Dua Asim
Kenneth Bodmin
Fangzheng Chen
Thomas Andrew Clifton
Blake Milton Gilmore
Coco Sunshine Gooch
Adam James Hunniford
Te Wehenga Warren Johnson
Lachlan Joseph Neilson
Angus Francis Parkyn
Thomas Harry John Pettit
Isaiah Mika Harrow Prasad
Nicholas James Rea
Paul Gnana Roshan Sathuluri
Ariel Denise Seux Tudor
Morgan Seth Johansen Larvik Brewer Webb
Haruka Yamamoto
Jack Adam Cansfield Yates
Minghan Zhu

Master of Forestry Science with Distinction

Matthew Hatfield Deering
Xin Yang John Ong

Master of Forestry Science

Zaw Ye Naing

Bachelor of Forestry Science

Max Duncan Leyland Tweddell

Master of Product Design with Distinction

Celyn Rhys Bennet

Courtney Jane Newell

Conjoint Bachelor of Product Design and Science

Campbell James Tonkin

Bachelor of Product Design

Livia Angelina

Cole Parkson Blackwell

Harrison Allan Collett

Huiwen Liang

Abigail Rose Murphy

Reuben John Price

George Alexander Turner

Minyao Xiao

Graduation Address
Delivered by Joel Gabites

Close of proceedings
Delivered by Tumu Whakarae
Vice-Chancellor

When announced, please stand and join in singing *Gaudeamus* (words inside back cover).

Please remain standing until the academic procession and graduates have left the auditorium.

Recessional Organ Music: *Graduation March in G* (Henry Smart).

Thesis descriptions

Lauren Nicole Bland

The Resilience Paradox: A Critical Analysis of the Aotearoa New Zealand-Pacific Partnership for Climate Crisis Resilience Building

The term resilience has become prominent in climate and development policy, with its aim to solve the many challenges presented by the climate crisis and failing global sustainable development objectives. However, the concept lacks a universal definition, which creates differing understandings across fields and contexts. As the climate crisis worsens, Pacific Island Countries and Territories are having to confront its increasing consequences. While development partners, like Aotearoa New Zealand, position themselves as resilience-building partners. This research critically analyses climate resilience dynamics within the Aotearoa-Pacific partnership. The central finding is the 'resilience paradox', where we intentionally and unintentionally contribute to the drivers of vulnerability in the very places we aim to build resilience.

Simon James Blue

Novel Long-Term Packaging Material for Wireless Implantable Devices

This thesis explored new packaging approaches for wireless implantable sensors, focusing on polymeric materials and moisture barrier technologies. Two high-performance polymers, PEEK and LCP, were assessed for their suitability in biomedical environments based on mechanical, thermal, and moisture resistance properties. Packaging methods included epoxy sealing and ultrasonic welding, followed by the application of barrier layers. Results highlighted material combinations that effectively reduced moisture ingress and improved device longevity. The research supports the development of reliable long-term wireless medical implants for use inside the human body.

Joanne Catherine Borren

Competence Assessment Practice in the Bachelor of Nursing Programmes in Aotearoa New Zealand

There is currently no standardised method of assessing the clinical competence of nursing students in Aotearoa New Zealand. Each educational institution has developed their own methods and processes for determining clinical competence. A multistage mixed-methods study investigated how competence assessment is conducted, and experienced, by nursing students, clinical lecturers, and preceptor nurses. This study highlighted the need for an assessment process that is designed to reflect student progression and minimise assessor variation. There was a lack of clarity regarding how to assess culturally safe practice and meeting the principles of Te Tiriti o Waitangi in nursing practice.

Park Min Chul

The Neural Noise-cancellation Mechanism in Tinnitus: Explored in Surgically Induced Unilateral Deafness in Adult Humans

Tinnitus may result from both excessive neural noise and failure to cancel it at the cortical level. This thesis explores this noise-cancellation mechanism using EEG across four studies in adults with surgically induced unilateral deafness (UD), with and without

tinnitus. Studies 1 and 2 show that only UD participants with tinnitus exhibit increased cortical responses and abnormal stimulus encoding in noise, consistent with reduced noise-cancellation. Studies 3 and 4 explore thalamic function and resting-state activity, revealing subtle group differences in sleep spindle dynamics and cortical gamma activity. Findings support a cortical gating model of tinnitus involving neural noise cancellation.

Lynne Davis Connor

Facing the Future: Developing Innovative Learning Environments in Secondary English Classrooms

A shift in educational paradigms in Aotearoa New Zealand has led to the existence of flexible learning spaces in schools. These spaces are aimed at creating innovative learning environments (ILE) which foster future-focused teaching practices. This thesis uses Lefebvre's spatial triad and actor-network theory to explore how ILEs are perceived and enacted by English teachers in one secondary school, highlighting the tension between policy and design intentions and teachers' lived experiences. The research reveals that multiple conceived versions of the ILE exist, influenced by different policy actors, which affect how spaces are perceived and experienced by teachers.

Lachlan Mackay Crawford

A High Tip-speed Monocopter Utilising Payload Weight-shift for Steering

This thesis describes the development of a monocopter UAV, designed to match the performance and payload capacity of an equivalently sized helicopter. A new monocopter was created, featuring a teetering rotor head that used payload weight-shifting for directional steering, and two brushless motors to balance and propel the rotor. The thesis details the monocopter's specification, manufacturing, testing, and flight. Notably, it provides calculations to determine the maximum rotor angular velocity and generated lift, methods to remove oscillations from a non-symmetrical rotor, and clarifies how the geometry of the teetering rotor tilts the disk plane with the supplied shaft moment.

Mathew John Darling

Assessing Non-resident Populations Exposure to Disaster Risk

In tourist-heavy regions, the risk to life during hazardous events is directly tied to the number of exposed individuals, with non-resident populations often underrepresented in disaster risk management. This thesis quantified non-resident mobility and its impact on disaster risk, focusing on high-risk areas in Aotearoa New Zealand. It develops both macro- and micro-scale models to capture spatio-temporal variations in population exposure. Findings indicate significant fluctuations in exposure, with the highest risk periods aligning with peak tourism seasons. In Piopiotahi Milford Sound, minute-by-minute monitoring revealed exposure changes that could double potential

fatalities in a tsunami event beyond levels of societal tolerance. The research underscores the need for robust frameworks and high-resolution data to better manage these dynamic, high-variance risks.

Isaac Philip Day

Early Career Teacher Determinations: To Lead or Not to Lead

This thesis explores why early-career teachers (ECTs) in Aotearoa New Zealand are reluctant to engage in leadership. Using a qualitative case study involving interviews with six ECTs, the research investigates the factors that motivate or hinder their involvement. Drawing on sociocultural theory, the study reveals that leadership is primarily perceived as formal and positional, requiring external recognition. However, when viewed as a collaborative practice, informal leadership can emerge. The concept of "leadership agency" is proposed, where learning opportunities can support both positional and non-positional leadership pathways, ultimately encouraging greater leadership engagement among ECTs.

Pavithran Devananthan

Post Mortem Interval Estimation using Soft Tissue Mechanical Properties

Accurately estimating time since death is a critical part of forensic pathology, but existing methods are insufficiently precise, especially at longer intervals. This project explored whether the mechanical properties of soft tissues could be used to estimate time since death ("post mortem interval", or PMI). A testing method was developed to measure how the stiffness of brain, liver, and kidney tissue changes after death in humans and sheep. Testing showed predictable mechanical degradation over time, informing a statistical model for estimating PMIs, which was validated in a forensic pathology lab.

Harry William James Dobbs

3D Tree Structure Retrieval from Point Clouds using Deep Learning

This thesis advances 3D tree modelling using deep learning for forestry, urban planning, and precision agriculture. Current methods face challenges with complex geometries and require extensive manual parameter tuning, limiting scalability. The research develops a novel deep learning algorithm for tree point cloud skeletonisation, achieving significant accuracy improvements. Key contributions include comprehensive synthetic datasets with ground-truth skeletons, systematic evaluation methodologies, and data integration strategies for grapevine semantic segmentation. The skeletonisation algorithm was adapted for complex grapevine structures. This work provides publicly available datasets and tools, facilitating accurate and scalable solutions for sustainable tree resource management across multiple domains.

Siqi Dong

Risk-Oriented Design of Base-Isolated Buildings in New Zealand

This thesis investigates the performance of base-isolated buildings designed using the NZSEE base isolation guideline through detailed case studies and advanced nonlinear time history analysis. It advances understanding of base-isolated building performance by identifying key design parameters and their impacts using the FEMA P-58 risk assessment framework. A simplified and risk-oriented design method is developed to address limitations in current practice. The proposed method directly incorporates isolator property variability, targets key performance objectives, delivers consistent collapse performance across isolation systems, and offers more efficient, risk-informed seismic design.

Xiangyi Dong

Three Essays in International Trade, Gains from Upstream Competition and Optimal Policy

This thesis examines how vertical separation and upstream market power influence optimal trade policies in oligopolistic markets. It develops a series of theoretical models to explore how governments can strategically use trade and price discrimination policies. Key findings reveal that import subsidies may be optimal when downstream competition is limited or when they induce upstream licensing. The analysis highlights the role of product differentiation, upstream cost heterogeneity, and strategic interdependence across firms in shaping optimal policy choices across different industrial settings.

Phoebe Kate Eggleton

An Investigation into how Exposure to the Canterbury Earthquake Sequence (2010-11) is Associated with Physical Health: A Spatio-temporal Birth-cohort Study

Does your location during an earthquake matter? Using data from the Christchurch Health and Development Study, a birth-cohort who were born in mid-1977, this thesis identified three key topics. First, how geospatial data can be used to classify severity of exposure to the Canterbury earthquake sequence (2010-11). Using the measure of exposure, the thesis then explored the health outcomes of cardiovascular disease and body weight change six years after the earthquake sequence. The findings highlight the importance of knowing where people are during a disaster and using this knowledge to better understand long-term physical health outcomes.

Richard James Morrin Ellingham

Integration of Biomimetic Pressure Mapping and Actuation in Soft Electroactive Elastomer Composites

Limitations of rigid technology in advanced systems, particularly in biomedical applications, are addressed in this work focusing on the reliable integration of soft electroactive sensor technology. An artificial skin and muscle is developed by investigating piezoresistive elastomer composites for flexible strain sensing, implementing Electrical Impedance Tomography (EIT) for pressure mapping, and integrating EIT with Dielectric Elastomer Actuators (DEAs) for sophisticated actuation. This research has yielded a patent for novel DEA-EIT actuator-sensor technology and identified methods for unintentional power generation. The development of portable, low-cost EIT-DEA circuitry further enhances practicality, advancing soft robotics for biomedical devices, advanced robotics, and energy generation.

Henry Joseph William Hickman

Automating the Assessment of Level One NCEA Programming

This thesis investigates the implementation of an automated high school programming assessment system, designed to assess the new programming Achievement Standard, AS92004. This is a nationally recognised standard, outlined by the New Zealand Qualifications Authority (NZQA) for New Zealand's National Certificate of Educational Achievement (NCEA). The goal of automating assessment is to reduce teachers' workload, and increase the equity and availability of programming education nationwide. This provides a case study of developing an automated assessment system that must conform to externally set criteria.

Tessa Carol Hiscox

Agrichemicals as Drivers of Antibiotic Resistance in Pollinator Microbiota

Large volumes of agrichemicals are applied at times coinciding with pollinator activity, leading to ingestion and contact exposures. Within pollinators, these compounds interact with both symbiotic and pathogenic microbes. This research shows that bumblebees consume Roundup, 2,4-D, and Kamba, which also cause dose-dependent toxicity in bee-associated bacteria. Additionally, herbicides alter the efficacy of antibiotics, plant-derived antimicrobials, and host immune peptides in the bee microbiota. By disrupting beneficial microbes and promoting antimicrobial resistance, herbicides may enhance the virulence of pathogens. These findings highlight the risk of combinatorial chemical stressors in agroecosystems. The thesis offers evidence-based recommendations to protect pollinators and ecosystems.

Jade Anne Humphrey

Spatial and Temporal Clustering of Large-magnitude Earthquakes in the Central Aotearoa-New Zealand Plate Boundary

This thesis examines the spatial and temporal clustering of large to great earthquakes in central Aotearoa New Zealand, using historical, paleoseismic, and synthetic earthquake records. This clustering occurs over timescales from seconds to centuries and may involve multiple faults rupturing during the same earthquake (multi-fault earthquakes) or a series of earthquakes closely spaced in time (earthquake sequences). These processes are primarily driven by fault intersections and stress transfer between faults. Multi-fault and sequence scenarios can have profoundly different outcomes for earthquake hazard, depending on the size, locations and temporal spacing of the earthquakes.

Felipe Andrés Kuncar García

Modelling Site Effects in Hybrid Broadband Ground-motion Simulation

This thesis develops and validates methods to account for site effects in hybrid broadband ground-motion simulation. These methods vary in complexity and required site data, ranging from empirical VS30-based approaches to physics-based 1D site-response analyses. Two validation studies using extensive New Zealand datasets evaluate their accuracy and precision across diverse site conditions. While all methods improve prediction precision for several intensity measures, the more advanced approaches lead to further improvements only under specific site conditions. A proposed protocol for applying the VS30-based approach, which incorporates basin-type and geomorphic site classifications, significantly enhances low-frequency prediction performance.

Nicholas Ning Lam

Advancing Numerical Evaluation of Model Identifiability in Noisy Data

Parameter identification of models is affected by both experimental considerations and model structure. This thesis explores the definitions of practical identifiability, which acknowledges variation in parameter estimates due to real-world limitations in data quality and quantity. Practical identifiability methods such as profile likelihood are then applied to dose-response mechanics and glucose-insulin models to gain new model insights. Improvements to methods of optimal experimental design are also explored. Overall, this thesis improves the understanding and accessibility of practical identifiability in the scientific community, while also demonstrating some of its wider applications to parameter identification and experimental design.

Marlene Anne Leggett

The Biology and Redescription of the Marine-associated Jumping Spider, Marpissa marina (Goyen, 1892) (Araneae: Salticidae: Euophryini)

Marpissa marina is a little known, endemic, marine-associated jumping spider that is found on pebble and rock-laden beaches in Aotearoa New Zealand. Like other marine-associated species it has managed to survive the oxygen deficits of aquatic and semi-aquatic environments. This research investigated aspects of *M. marina's* behaviour and physiology that contribute to its successful underwater respiration and ability to survive in a maritime environment. *Marpissa marina* was erroneously placed into the northern hemisphere Marpissa genus. Studying morphological characteristics, taxonomy, systematics, and the genetic structure of *M. marina* it was discovered that *M. marina* should be classified within the *Maratus* genus and is now renamed *Maratus marinus*.

Yunying Liang

Higher Educated Chinese Single Women Migrants in Singapore and New Zealand: Motivations, Experiences, and Identities

This research is an ethnographic case study about higher-educated Chinese single women migrants living in Singapore and New Zealand, addressing the lack of focus on independent female migrants in the existing literature. It highlights how sociocultural norms, gender expectations, and perceptions of opportunity shape their migration motivations, experiences, and identity (re)construction. Findings reveal the complex interplay between individual agencies and structural forces in their transnational journeys, which offers valuable insights into gendered migration and contributes to a more inclusive understanding of gendered mobility patterns.

Nyasha Makaruse

Occupational Noise Induced Hearing Loss: Conservation Policies and Barriers

This thesis examines occupational noise-induced hearing loss (ONIHL), a preventable yet persistent occupational health concern. Through a multi-methods approach involving systematic reviews, analysis of compensation data from five high-income countries, and stakeholder surveys, the study investigates ONIHL risk at various noise exposure thresholds, national trends and costs, program implementation, monitoring practices, and early detection strategies. Findings indicate a substantial burden among older male workers in high-risk sectors, alongside persistent gaps in training, baseline testing, and protection use. The study highlights the need for evidence-based, sector-specific interventions, early detection enhanced by extended high-frequency audiometry, and adoption of accurate, cost-effective monitoring methods across settings.

Brooke Louise Matthews

Synthesis and Development of Novel Hofmann and Related Hybrid Ultramicroporous Materials, for Strategic Gas Capture and Separations

As the world becomes increasing industrialised, our lifestyles are dependent on the production of light hydrocarbon chemical feedstocks. With current industry technology, purifying these chemicals accounts for ~15% of the total global energy consumption. More energy efficient methods of doing these purifications can potentially prevent ~100 million tonnes of CO_2 emissions annually. This thesis investigated new metal-organic framework materials, which are highly porous materials that can be rationally designed to show impressive selectivity towards important light hydrocarbon gases. The materials developed demonstrated high selectivity towards acetylene, presenting a potentially lower-energy method of purifying this important chemical.

Mariah Aroha McDonald

Patient-specific Parameter Identification of Mechanically Ventilated Neonates

This thesis investigates the respiratory dynamics of ventilated premature neonates, who are especially vulnerable to respiratory distress due to underdeveloped lungs. Using bedside data from nine neonates, a model was developed to estimate key parameters such as elastance, resistance, lung volume, and breathing effort. Significant variability in patient needs and responses were observed, revealing the limitations of generalized ventilation strategies. This thesis advocates for model-based, patient-specific care through digital twins to optimize mechanical ventilation, reduce lung injury, and improve outcomes in neonatal intensive care. This work lays a foundation for personalized respiratory support in fragile neonatal populations.

Tyler Jordan McNabb

Maximising the Socio-cultural Benefits of Urban Blue Green Infrastructure to Enhance Urban Liveability: A Case Study Approach

Urban blue-green infrastructure (BGI) offers a promising approach to address urban challenges such as flooding, biodiversity loss, and declining wellbeing. This research explores how BGI can be better designed to enhance liveable cities, using case studies in Ōtautahi Christchurch and Kaiapoi. Findings highlight that current designs often prioritise bio-physical outcomes, overlooking socio-cultural benefits valued by communities. Co-design with Indigenous and community groups, as seen in Te Kuru, revealed deeper cultural connections and enhanced outcomes. The study advocates for transdisciplinary, relational approaches to BGI design, incorporating diverse knowledge systems to better align with community values and improve urban liveability.

Nor Sharliza Binti Mohd Safaai

Sequential of Acid, Alkaline and Torrefaction of Wood Pretreatments to Improve Bio Oil Quality Through Fast Pyrolysis

Fast pyrolysis converts woody biomass into bio-oil, but its quality degrades over time during storage. Biomass pretreatment via torrefaction, chemical methods, or both, can enhance bio-oil quality. Acid pretreatment is preferred over alkaline as it effectively suppresses inorganic matter in both biomass and bio-oil. Torrefaction not only reduces the water content of bio-oil but also lowers biomass grinding costs, offsetting pretreatment expenses. A combined approach using torrefaction and acid pretreatment is often required to improve the stability, quality, and overall performance of bio-oil, depending on its intended application and long-term storage requirements. This ensures better efficiency and product consistency.

Jennifer Moir

Dynamics of Compounded Planned and Unplanned Change at a University: A Retrospective Case Study

This thesis examines a university's management of compounded planned and unplanned change, and continuous adaptation to persistent volatility during a protracted crisis. Analysis of 20 managerial interviews assert the primacy of workforce capabilities to adaptive resilience for organisational success and thriving in turbulent conditions. Findings substantiate that the calibre and availability of response capability is contingent on an empowering participatory learning culture and emotionally intelligent relational leadership. The research critiques the bifurcation of planned and unplanned change advocating for an integrated framework of organisational leadership and change management methodologies to effectively navigate the challenges and volatility of contemporary organisational contexts.

Jack Muir

Measurement and Modelling of Calcium Tartrate Precipitation in Wine

The formation of calcium tartrate crystals in wine is a problem for the industry, as they are perceived negatively by consumers. To address this, a predictive model was developed using a system of equations for ion equilibria, mass balance, electroneutrality, and solubility. No single measured parameter could reliably distinguish between wines that did or did not form crystals. However, the model successfully identified wines with calcium tartrate crystals as having significantly higher risk, demonstrating its potential as a valuable tool for winemakers.

Sophie Adelaide O'Brien

Spatial Drivers of Providing and Receiving Nature's Contributions to People

Nature's Contributions to People support wellbeing, yet these contributions are provided by mobile species and accessed by people through spatial processes that are poorly understood. A modelling approach is developed and used on data from New Zealand and German landscapes to reveal how species' responses to land-use generate spatial trade-offs among nature's various contributions. Case studies are combined with quantitative analyses to explore the barriers to Māori engaging authentically with the environment. Overall, it is demonstrated how to incorporate spatial drivers in predictions of nature's contributions to people, and thereby inform equitable landscape decisions.

Ali Bassil Mohammad Othman

Utilising Harmonic Signatures to Map Low Voltage Distribution Network Topologies

This research presents new methodologies for identifying low-voltage distribution network topologies using smart meter harmonic data. It introduces harmonic-based algorithms, synthetic data generation, and a novel multi-measurement fusion technique. Higher-order harmonics demonstrated superior performance over RMS voltage and lower-order harmonics due to their sensitivity to localised impedance. A CH-weighted fusion method, incorporating the Calinski-Harabasz index, enhanced robustness under measurement errors and short data periods. Case studies confirmed improved accuracy across varying conditions. These approaches enable accurate topology mapping with minimal infrastructure, supporting more flexible and resilient distribution networks.

Oliver Henry James Ploeg

An Empirical Examination of Body Disposal Practices in New Zealand Homicides

This thesis investigates body disposal in New Zealand homicides, focusing on the movement and concealment of bodies. Drawing on court reports, a police database, and media sources, five empirical studies examined demographic, situational, environmental, and behavioural factors using mixed-effects modelling. Key findings highlighted the influence of situational factors (such as offender tactics, co-offender dynamics, and disposal proximity) in shaping disposal behaviours. This research advances investigative practice by promoting behavioural profiling, context-driven search strategies, and greater awareness of disposal variability, thereby strengthening the empirical foundation for understanding and investigating complex body disposal behaviours in homicide cases.

Francis Craig Pooke

Design and Validation of a Spring-driven Insulin Pump with an Electromechanical Clockwork-escapement Dose-control Mechanism

This thesis presents a novel design for an insulin pump that has an estimated battery life 12 times longer than any currently available commercial device. An extended battery life has a number of advantages and will promote the wider use of insulin pumps. The low-power pump uses a spring-driven plunger to deliver insulin from an internal reservoir. A clockwork escapement mechanism regulated by a rotary actuator controls dosing with 0.25µL resolution. Delivery profiles can be adjusted from a smartphone via Bluetooth. Bench testing demonstrated delivery accuracy and precision comparable to leading commercial pumps, justifying continued development towards clinical validation.

Sangeeta Prasad

Contextualising Technology Enabled Learning with Sustainable Practices in Fiji

This thesis investigates Technology Enabled Learning (TEL) in Fijian primary schools, comparing rural and urban contexts to identify key challenges, opportunities, and factors affecting sustainability. Using a critical paradigm that combines an ecological approach with Critical Theory, it examines how power dynamics, cultural contexts, and systemic influences shape TEL practices. Based on classroom observations and interviews, it proposes a Critical-Ecological Framework to guide sustainable, equitable TEL. Findings emphasise the importance of teacher agency, culturally responsive pedagogies, and ongoing professional development in enabling transformative learning experiences that honour Pacific values and promote inclusion across diverse educational settings.

Amelia Samandari

Medium Access Control (MAC) for Collision-Free Flight in Unmanned Aerial Vehicle (UAV) Formations

UAVs in autonomous formations require accurate and timely communication of safety information. Therefore, a communication protocol that supports the successful transfer of safety information is essential. Three TDMA MAC protocols, each addressing different network topologies, are proposed in this thesis to meet this need. The proposed protocol designs focus on overcoming two limitations of traditional TDMA: scalability and a single point of failure. The proposed protocols are used to enable collision-free deployment of UAV formations. This is an important step for improving the safety and practicality of UAV formations in applications that span a range of industries.

Sulaiman Sarwary

The Influence of Legislative and Governance Arrangements on Public Engagement in Recovery Decision-making: A New Zealand Case Study of the Canterbury Earthquake Sequence

This thesis examines how New Zealand's legal framework affects public engagement in disaster recovery, using the Canterbury Earthquake Sequence as a case study. While Disaster Risk Management has been decentralised to local levels, meaningful public participation remains constrained by the traditional 'public notice and comment' approach. Although the Canterbury Earthquake Recovery Act 2011 introduced new public engagement provisions, they had limited practical effect. In contrast, local initiatives like the "Share an Idea" campaign demonstrated the benefits of participatory approaches. The thesis argues that New Zealand should supplement the traditional approach with participatory mechanisms to ensure meaningful community involvement in recovery.

Aaron Eric Smith

Physics Integrated Deep Learning for Photon Counting Spectral CT

Madeline Dana Stone

Forming Metal Organic Framework Glass Membranes for Gas Separation

This thesis explored methods to repair intercrystalline defects in metal-organic framework membranes using glass transformations, focusing on ZIF-62. A four-stage method was adapted to produce glass membranes, including the use of an a-alumina tubular support, ZnO precursor deposition via Atomic Layer Deposition, in situ solvothermal synthesis of ZIF-62, and defect healing through glass transformation. Issues with the gas permeance and selectivity remained low yet promising; therefore, studies were performed to reduce the membrane thickness, understand the impacts of the glass transformation, and explore a novel synthesis technique. Overall, providing foundational insights for enhancing the performance and scalability of ZIF-based membranes.

Sofie Joanna Studholme

Neuromorphic Computing with Stochastic Spiking in Percolating Networks of Nanoparticles

The biological brain is a highly efficient computational system. Neuromorphic (brain-inspired) computing systems that work on similar principles could support the development of the next generation of artificial intelligence. Percolating Networks of Nanoparticles (PNNs) have previously been shown to exhibit critical spiking behaviour that is similar to that in the brain, with promise for highly efficient computation. This work demonstrates that spiking PNNs can be used for classification and optimization tasks, including factorization of up to 6-digit integers and handwritten digit classification.

Peng Sun

The Impact of School Zones on Housing Prices: Evidence from New Zealand

This thesis examines school zones and housing prices in New Zealand through three empirical studies. Study One analyses two consecutive school zone downsizings, finding the first reduction decreased housing prices by 2.33-15.32%, while the second had smaller, largely insignificant effects. Study Two examines whether school achievement scores correlate with housing premiums nationwide, finding neither gross scores nor value-added measures significantly explain price premiums. Study Three investigates school zone creation across 16 Christchurch secondary schools, finding approximately half of effects are statistically insignificant. Collectively, findings suggest that broader neighbourhood characteristics and spatial factors influence housing prices more substantially than direct school zoning effects, revealing complex relationships with important policy implications for education equity and housing affordability.

Rachel Mary Teen-O'Teachain

Transitioning Urban Water Management Regimes to Facilitate Water Sensitive Urban Environments

Urban water systems face complex challenges, necessitating more sustainable and strategic management. This thesis explores how urban water management (UWM) strategists drive or hinder sustainability transitions, focusing on their strategic practices within established regimes. Through interviews with 31 executives and senior managers in Christchurch, New Zealand, and Melbourne, Australia, the study examines how their backgrounds, motivations, and collaboration shape UWM strategies. By integrating strategy-as-practice and sustainability transitions scholarship, the research identifies key factors—such as overarching strategic vision and collaborative learning—that enable successful transitions,

as seen in Melbourne's shift to more sustainable urban water management.

Karan Amol Titus

Evaluating the Techno-economic Potential of Combined Geothermal, Bioenergy and CO_2 Removal Cycles for Power Production and Net-negative Emissions for Aotearoa and Beyond

This research evaluated the novel process of applying biogenic CO_2 removal at geothermal stations to facilitate single-site power production and negative emissions. To test this technology's merits, a systems model was constructed to relate the thermodynamic processes of hybrid geothermal-bioenergy with the CO_2 dissolution capacity of reinjected brine. Techno-economic analysis was performed to understand the economic viability of this technology. New builds are economically feasible at reasonable CO_2 prices ($100/tonne). They can achieve negative CO_2 emissions of 1 million tonnes using half of New Zealand's forestry residues (~0.79 Mt/year). These findings suggest this technology is suitable for a pilot demonstration.

Neel Rajesh Vanvari

Examining the Indian Enigma: The Political Economy of Manufacturing in India

Manufacturing has historically played a diminished role in India's economy, with the service sector leading India's economic growth after the 1990s. This theoretical puzzle of India's economic trajectory being different from other newly industrialised countries is a central focus of this research. The research answers the question "why has manufacturing in India struggled to grow and become a key sector driving growth in the economy?" Primary data for the research was obtained by conducting interviews with thirty-five elites from three Indian states across different manufacturing sectors. Institutional, interest-group and structural factors in the research framework are introduced to further test the hypotheses.

Michael James Williams

Numerical Simulations in Relativistic Cosmology

This research simulates the gravitational effects that drive the formation of the Universe's largest structures over billions of years. Most cosmological simulations approximate Einstein's general relativity with Newton's gravity, but this research avoids these approximations. Cosmic voids are identified in these simulations, vast near-empty spaces in the cosmic web of galaxy clusters. Roughly 30,000 voids are analysed, most of which are over 100 million light-years across. The curvature of spacetime within them is measured, which is not possible with standard Newtonian simulations. The expansion of space is faster within our voids than in galaxy clusters, as general relativity predicts.

Susanna Mary Wilson

Planning practices and pedagogical reasoning for practicum mathematics teaching: Experiences of primary pre-service teachers (PSTs)

As novice teachers, primary PSTs are beginning to develop knowledge for maths teaching therefore can find maths planning challenging during practicum. The main finding from my study was that as PSTs planned maths lessons, they identified eight planning dilemmas and practices. These practices were: examining and clarifying maths concepts, finding and selecting resources and tasks, selecting and using representations as tools, designing assessments, creating and using written plans, evaluating planning decisions, and considering learners. They also engaged in pedagogical reasoning processes which were connecting planning practices, recalling and visualising pedagogical strategies from past lessons, and mentally rehearsing strategies for future teaching.

Aminu Hassan Yusuf

Design of Metal-Free Photocatalytic Nitrogen Reduction for More Energy Efficient Synthesis of Ammonia

This thesis investigates metal-free catalysts for sustainable nitrogen reduction (NRR) to ammonia, offering a greener alternative to the energy-intensive Haber-Bosch process. Boron-substituted adamantanes were designed and optimized using DFT. Initial findings showed that modifying these compounds with boron improved their electronic and optical properties. 1,3,5,7-tetra-bora adamantane (4TBA) was found to be promising for electrochemical NRR, demonstrating favourable N2 binding (-1.46 eV). However, kinetics studies suggest that the process is impractical at room temperature. Functionalization of 4TBA with a pyrene chromophore enhanced the visible light absorption (λ_{max} = 471 nm), charge separation, and band alignment for NRR, offering pathway to photocatalytic NH3 synthesis.

Xueqi Zhang

Development and Performance Investigation on Fe-Based Oxygen Carrier Materials in Biomass Chemical Looping Gasification for H2-enriched Syngas Production

Biomass chemical looping gasification (BCLG) is an emerging technology that contributes to meeting energy demand and achieving negative carbon emissions. Central to the success of BCLG are metal-based oxygen carriers (OCs) capable of withstanding long-term cyclic operation. In this work, Fe-based oxygen carriers (OCs) endowed with inherent phase complexity or encapsulated in inert hierarchical structures demonstrated enhanced chemical durability. These structural modifications are an art, conferring enhanced oxygen anion conductivity on OCs over cycling by enabling phase/structure evolution to favour OC reactivity.

Zhe Zhang

A Multimodal Approach to Investigate Cognitive and Neural Mechanisms of Construction Hazard Recognition: The Roles of Attention, Situation Awareness, and Experience

The construction industry remains hazardous due to poor hazard recognition. This study explores cognitive factors influencing situation awareness transitions in dynamic construction sites. A mixed-methods approach, including systematic review, scientometric analysis, and experiments using virtual reality, eye tracking, and EEG, examines how top-down and bottom-up attention affect hazard recognition. Results show that augmented stimuli and safety goal setting significantly improve SA transitions and hazard recognition. The research advocates a human-centred shift in safety management by integrating cognitive science and digital technologies. It recommends developing multimodal neurophysiological tools and personalized safety protocols to improve construction site safety.

The tradition of graduation

University graduation ceremonies are part of a tradition stretching back to the 12th century when the first universities appeared in Europe. Te Whare Wānanga o Waitaha | University of Canterbury, established as Canterbury College in 1873, was based on the English Oxbridge model and its graduation ceremonies follow that tradition while incorporating elements of tikanga Māori.

The first Canterbury degrees were conferred in 1878 in the Canterbury Provincial Chambers. The ceremonies moved to the College Hall, after its completion in 1882, known as the Great Hall at the original university campus, now home to the Christchurch Arts Centre.

The early graduation ceremonies, known as Diploma Days, were decorous affairs but by 1884 discordant notes sounded in the form of 'tootings on a very unmusical instrument'. Clashes between exuberant graduands and the ceremonial party developed, and capping ceremonies were briefly replaced by a college function before an agreed format was reached whereby short speeches and songs were alternated.

Graduation ceremonies were not held during the First World War but when they resumed in 1921, banter, songs and interjections interrupted proceedings and the College resorted to mailing out diplomas and arranging only a reception for graduates. By 1930 the ceremony had returned to a quieter, more orderly proceeding.

Pressure of numbers forced a move in 1946 to the Civic Theatre, the first year an academic procession through the city was held. This format continued, apart from three occasions when it was held in the St James Theatre, until 1962 when further growth of numbers prompted a move to King Edward Barracks.

In 1968 the ceremony was divided into morning and evening proceedings and in 1971 it was made voluntary.

The Christchurch Town Hall became the venue in 1973 and a further change to three afternoon ceremonies was made in 1987. Four ceremonies became necessary in 1994, growing further in 1997 to five ceremonies; four in autumn and one in summer.

Recent decades have seen a resurgence in the popularity of graduation with steadily increasing numbers of students choosing to receive their degrees in person.

As a result of the merger between the University and the Christchurch College of Education on 1 January 2007, the number of graduation ceremonies continued to increase and included one held in Rotorua.

In the aftermath of the February 2011 earthquake, the April 2011 Graduate Celebrations were held in a marquee on Ilam Fields, and then moved to Christchurch Arena. April 2019 saw ceremonies return to the fully restored Christchurch Town Hall for the first time since the earthquakes almost 10 years earlier. In 2022 graduation celebrations moved back to the then Christchurch (now Wolfbrook) Arena to allow for the growing numbers of graduates and their guests.

Graduation celebrations today

Today, the University opts for graduation celebrations instead of traditional ceremonies. This change stems from the University Council's practice of verifying and endorsing the qualification requirements of graduating students before the celebration, a formal process called conferral – the legal awarding of the qualification. Since conferral occurs before graduation, we refer to the event as a celebration rather than a ceremony.

The celebration begins with a procession of the graduates led by a piper to the door of the auditorium. Once the graduates are seated, fanfare from the organ heralds the entry into the auditorium of the academic party led by the Bedel, a ceremonial role, carrying the University mace, the symbol of institutional authority. The banner bearers follow, then academic and professional staff, followed by the Deans, then members of the University Council and the three Officers of the University, Tumu Kaunihera | Chancellor, Tumu Whakarae | Vice-Chancellor and Pouroki | Registrar. The mace rests on a stand during the celebration.

Today's UC Graduation celebrations include elements of tikanga Ngāi Tahu. A representative group of graduates is welcomed into the auditorium with pao (a call of welcome), and this is responded to by the kaikaranga (caller) leading the group in. This exchange of karanga between senior Ngāi Tahu women opens the proceedings.

The pao is followed with a mihi or speech of welcome, from a Ngāi Tahu man, and that in turn is followed with a waiata. In this small way the University honours its relationship with mana whenua, Ngāi Tūāhuriri, its commitment to bicultural development, and its responsibilities under Te Tiriti o Waitangi | Treaty of Waitangi.

After the National Anthem te Tumu Kaunihera Chancellor opens the proceedings with the words: "I now convene a ceremony of the University of Canterbury to celebrate our graduates on the completion of their certificates, diplomas and degrees."

Te Tumu Kaunihera | Chancellor then hands over to te Tumu Tuarua Akoranga | Deputy Vice-Chancellor Academic who introduces te Amo Rangahau | Executive Dean of Postgraduate Research and Ngā Amo | Deans of the Faculties, who in turn present the graduates.

When all graduates have been capped and collected their testamur (certificate) there is a short speech before all in attendance rise and sing *Gaudeamus*. The academic party then leaves the auditorium, followed by the graduates.

The Bedel and the Mace

At each ceremony the procession of graduates and staff is led by the Bedel carrying the University mace, the symbol of institutional authority. Historically the Bedel had a number of functions but in a modern university only the ceremonial role at graduation survives.

Used for every graduation ceremony since 1957, the University of Canterbury's mace provides a tangible link with the College of Christ Church at Oxford University, where it was designed and made. The shaft of the mace is made of an oak beam removed from Tom Tower when the bell was rehung in 1953. Even in 1680, when the beam was installed in the Sir Christopher Wren-designed Tower, the timber was described as 'well-seasoned'.

There is a tohu Māori (Māori design) carved on the shaft between two silver ferrules. The silver bowl at the head of the mace is joined to the staff by a fluted silver collar and ends in a Tudor rose. The petals embrace the coat of arms of Canterbury University College, executed in coloured enamel. Engraved at the foot of the mace is the Cardinal's Hat of Christ Church.

Coat of Arms

The formal, heraldic description of the University of Canterbury's coat of arms reads: "Murrey a Fleece Argent in base a Plough on a Chief wavy Or an open Book proper bound Murrey edged and clasped Or between a Pall Azure charged with Four Crosses Formy Fitchy Or and a Cross Flory Azure".

The base of the shield comprises a silver fleece, symbolising the province's pastoral pursuits, and a golden plough, symbolising agriculture, set on a murrey-coloured (purple-red, derived from mulberry) shield. The murrey-coloured, golden clasped book in the centre of the top section symbolises learning. On its right (observer's left) is an azure bishop's pall charged with four golden crosses, and on its left is an azure cross. The two crosses symbolise the province's ecclesiastical connections. The wavy line separating the two sections represents lands overseas.

The coat of arms, approved and authorised by the British Kings of Arms in Letters Patent dated 10 May 1965, was based on an earlier unauthorised version which was in turn adapted from the Canterbury Provincial Government's arms of the 19th century. That earlier Coat of Arms is still visible on the clock tower and above the entrance of the Arts Centre on the corner of Hereford Street and Rolleston Avenue.

A brief history of the University

Canterbury College was the second university institution in Aotearoa New Zealand when it was established as a constituent college of the University of New Zealand in 1873.

Housed in graceful stone buildings on a central city block, the College was supported by rents from high country reserves, endowed by the Canterbury Provincial Council for this purpose.

It was modelled on English and Scottish universities, but with one major difference; the three foundation professors admitted women to the College from the beginning.

In 1876, Helen Connon became the first woman to study at the University, then known as Canterbury College. Connon graduated with a BA in 1880 – the second woman arts graduate in the British Empire. When she gained her MA with first-class honours in English and Latin in 1881, she became the first woman in the British Empire to be awarded a degree with honours.

Lord Ernest Rutherford, one of our most distinguished graduates, studied at Canterbury College in the 1890s and discovered his scientific ability during two years of postgraduate research before taking up a scholarship to Cambridge University.

Tā Āpirana Ngata of Ngāti Porou graduated from Canterbury College in 1893 with a BA in political science. Tā Āpirana was the first Māori graduate from any university in Aotearoa New Zealand.

Bessie Te Wenerau Grace (Ngāti Tūwharetoa) was the first Māori woman to graduate from university. She graduated from Canterbury College in 1926 with a BA and went on to complete an MA with first-class honours in modern languages from the University of London.

Today, the portraits of Lord Rutherford and Tā Āpirana grace the nation's $100 and $50 bank notes, respectively, while suffragist Kate Sheppard features on the $10 note. She attended Canterbury College's School of Fine Arts as a student in 1882 and 1883. Her former home, Te Whare Waiutuutu Kate Sheppard House, nestles beside the modern University's Ilam campus.

The institute became known as Canterbury University College in 1933 before assuming the title of the University of Canterbury in 1957.

Faced with increasing space pressures, it was decided in 1949 to transfer the University, in stages, to a new campus on farmland bought for the purpose in what became the suburb of Ilam. Between 1960 and 1974, a time of rapid growth, the University was split between its town and Ilam campuses. After the town site was vacated in 1975, it was donated to the city of Ōtautahi Christchurch and is now home to the Arts Centre.

The University has returned, in part, to its former site, with Classics and the School of Music moving to the former Chemistry building in the Arts Centre. It also includes the Teece Museum of Classical Antiquities, which houses the Logie Collection of Greek and Roman antiquities.

Following the earthquakes of 2010–2011, the University undertook significant redevelopment providing modern, cutting-edge facilities.

The modern University occupies attractively landscaped 76-hectare campuses in Ilam and Upper Riccarton comprising libraries, lecture theatres, laboratories, halls of residence and a range of student services surrounded by playing fields, woodlands and the renowned Ilam Gardens.

As well as the innovative, purpose-built facilities on campus, the University operates several major field stations, including: the Cass Mountain Research Area, Kawatiri Westport Field Station, and Ōtehīwai Mt John Observatory. The most remote field station is located in Nigeria, at the edge of the diverse and ecologically important Ngel Nyaki Forest Reserve.

Academic dress

The various types of academic dress worn by graduates have evolved from the daily dress worn by university students and staff in the Middle Ages, which in turn was based on the attire worn by the medieval clergy.

Gowns and hoods were practical wear in those days and while the gown is still worn by some, the hood has become purely ceremonial. The colour of the lining of the hood is strictly controlled and indicates the wearer's university and faculty or degree. The rich variety of academic dress worn by the academic staff reflects the many universities represented; the dress of American and European universities differs markedly from that of Commonwealth universities.

The gowns for Te Whare Wānanga o Waitaha University of Canterbury bachelor's and master's degrees are the same as for the Cambridge Bachelor and Master of Arts; the gown for the Doctor of Philosophy degree is as for the Cambridge Master of Arts but with peony red detachable facings for dress occasions.

The hoods are of a standard size and shape with a slate grey exterior. The colour of the lining indicates the degree of the wearer.

The headgear for a bachelor's and a master's degree is a black trencher (mortarboard) with tassel. For all Doctoral degrees the headgear is a black bonnet as for the University of St Andrews.

University Officers wear peony red gowns. Te Tumu Kaunihera | Chancellor's is damask embroidered with gold and gold lace and the trencher is peony red with gold lace and a gold tassel. Te Tumu Whakarae | Vice-Chancellor's gown is damask embroidered with gold and the trencher is peony red with a gold tassel. Te Pouroki | Registrar's gown is silk embroidered with gold and the trencher is peony red with a peony red tassel.

Degree colours

The colour of the lining indicates the degree of the wearer.

The colours are:

- Arts – Baby Pink
- Commerce – Yellow
- Education – Brown
- Engineering – Violet
- Forestry – Chestnut
- Health Sciences – Emerald Green
- Law & Criminal Justice – Ice Blue
- Music & Fine Arts – White
- Science – Ultramarine
- Social Work – Post Office Red
- Speech & Language Pathology/Audiology – Magenta
- Sport Coaching – Post Office Red
- Teaching & Learning – Old Gold
- PhDs – Peony Red

Honours and master's degrees are distinguished by a border of colour on the exterior of the hood: for an honours degree it is 25mm wide, for a master's degree it is 75mm.

For the Doctor of Philosophy degree, the hood is lined in peony red. For the other doctorates the hood is slate grey.

Graduate Women Canterbury

Graduate Women Canterbury (GWC) is the Trust responsible for the non-profit organisation, GWC Regalia Hire. Together, both entities focus on furthering tertiary education for New Zealand women, with proceeds from the Regalia Hire used to finance scholarships and awards.

Since 2020 the Trust has partnered directly with the University of Canterbury and other Canterbury tertiary institutions to fund new and existing initiatives in support of women entering, completing and working in tertiary education.

The Canterbury Branch of New Zealand Federation of University Women was originally formed in the 1920s to support women graduates socially and professionally in a time where women tertiary students and graduates were a significant minority.

GWC was established to create opportunities, and to encourage and support equity within tertiary education and beyond.

Contact GWC Regalia Hire for all regalia services and enquiries through their website **www.gwcregaliahire.nz** or call in to their rooms at Dovedale Campus, Wairarapa Building, Block ED15, Ilam any Tuesday and Thursday between 9.30am – 2.30pm.

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Manu tiria

Manu tiria Manu tiria
Manu werohia ki te poho o Te Raka
Ka tau rērere
Ka tau mai i te Ruhi
E tau e koia a
Koia koia
ko Tararauriki
Kī mai i Māui
Ehara i te whitu me te waru e
E tau e koia, koia

This song talks about when to plant kūmara (Ruhi or during January) and when not to plant kūmara (Whitu and Waru or November and December).

It also relates to the story of Māui changing into a kererū and following his father into the underworld.

Gaudeamus

Gaudeamus igitur juvenes dum sumus,
Gaudeamus igitur juvenes dum sumus,
Post jucundam juventutem, post molestam senectutem,
Nos habebit humus, nos habebit humus.

Vivat Academia, vivant professores!
Vivat Academia, vivant professores!
Vivat membrum quodlibet, vivant membra quaelibet,
Semper sint in flore! Semper sint in flore!

Let us rejoice then while we are young
When sweet youth's past and crabbed age is done
The grave will have us, everyone.

Long live the University, long live the staff!
Long live each one, of whatever degree!
May they ever so flourishing be!

E Ihowā Atua | God Defend New Zealand

E Ihowa Atua o ngā iwi mātou rā,
Āta whakarongona me aroha noa.
Kia hua ko te pai, kia tau tō atawhai.
Manaakitia mai, Aotearoa

God of Nations, at thy feet
In the bonds of love we meet
Hear our voices we entreat
God defend our free land
Guard Pacific's triple star
From the bonds of strife and war
Make our praises heard afar
God defend New Zealand.

Te Whare Wānanga o Waitaha
University of Canterbury
Private Bag 4800
Christchurch 8140
New Zealand

www.canterbury.ac.nz

9478315890