TOM LOGAN

Industrial and Operations Engineering, University of Michigan, Ann Arbor, USA tomlogan@umich.edu www.tomlogan.co.nz +1 (443) 248 1719

EDUCATION

University of Michigan, Ann Arbor, USA PhD in Industrial and Operations Engineering (expected) Advisor: Dr. Seth Guikema Master of Arts in Statistics (expected)	2015 - 2015 -
Johns Hopkins University, Baltimore, USA Master of Science in Geography and Environmental Engineering	2014 - 2015
University of Canterbury, New Zealand Bachelor of Science in Mathematics Bachelor of Engineering in Natural Resources Engineering with First Class Honours	2013 - 2014 2010 - 2013
Awards	
Technical poster prize 4 th place Civil & Environmental Engineering. Michigan Engineering Graduate Symposium.	2016
Poster prize for 1st in department. Michigan Student Symposium for Interdisciplinary Statistical Sciences.	2016
Gordon Croft Fellowship from JHU Environment, Energy, Sustainability, Health Institute	2014
Dean Robert H. Roy Fellowship for graduate study at Johns Hopkins University	2014
Fulbright New Zealand Science and Innovation Graduate Award	2013
John R Templin Trust Postgraduate Scholarship	2013
Allan Wilson Centre Research Scholarship	2013
Environment Canterbury Prize in Natural Resources Engineering	2012
Tonkin and Taylor Prize for Hydrology and Hydraulic Engineering	2012
First Prize in Sophomore Civil & Natural Resource Engineers' Communication Portfolio	2011
University of Canterbury's Emerging Leaders' Scholarship	2010
University of Canterbury's Mathematics Research Scholarship	2010
JOURNAL PUBLICATIONS Logan, T. M., Bricker, J. D., and Guikema, S. D. (n.d.). "Hard-defenses fail to improve urban resilience in the face of natural disasters." <i>Under review</i> .	
 Logan, T. M., Williams, T. G., Nisbet, A. J., Liberman, K., Zuo, C., and Guikema, S. D. (n.d.). "A tool for parcel-resolution multi-modal accessibility to core services." <i>Under review</i>. Logan, T. M., McLeod, S., and Guikema, S. "Predictive models in horticulture: A case study with Royal Gala apples." <i>Scientia Horticulturae</i>, 209, 201-213 	2016
CONFERENCE PRESENTATIONS	
Logan, T. M., Guikema, S., O'Meara, K., Zaitchik, B.F., Liberman, K., Zuo, C., and Nichols, R. "Turning up the heat on urban temperature data." <i>Society of Risk Analysis Annual Meeting</i> , San Diego.	2016
Logan, T. M., Bricker, J., and Guikema, S. "Tsunamis, seawalls, and memory: urban development alongside natural hazards." <i>INFORMS Annual Conference</i> , Nashville.	2016
Logan, T. M., McLeod, S., and Guikema, S. "Predictive models in horticulture: A case study with Royal Gala apples." <i>Joint Statistical Meeting</i> , Chicago.	2016
Logan, T. M., McLeod, S., and Guikema, S. "Predictive models in horticulture: A case study with Royal Gala apples." <i>INFORMS Annual Conference</i> , Philadelphia.	2015

Zaitchik, B.F.*, O'Meara, K.*, Guikema, S.D., Scott, A., Bessho, A., and Logan, T.M. "Visualizing and Understanding Socio-Environmental Dynamics in Baltimore." Proc., American Geophysical Union Fall Meeting

* indicates presenting author, when not first

Logan, T. M., Bricker, J., and Guikema, S. "Tsunamis, seawalls, and memory: urban development alongside natural hazards." Michigan Engineering Graduate Symposium, Ann Arbor. Logan, T. M., McLeod, S., and Guikema, S. "Predictive models in horticulture: A case study with Royal Gala apples." Joint Statistical Meeting, Chicago. Logan, T. M., McLeod, S., and Guikema, S. "Predictive models in horticulture: A case study with Royal Gala apples." Michigan Student Symposium for Interdisciplinary Statistical Sciences, Ann Arbor. TEACHING EXPERIENCE IOE 460: Decision Analysis, Graduate Student Instructor, University of Michigan Lectured introduction to probability 570.210: Computational, Mathematical Meeling, Guest Lecturer, University of Canterbury Lectured statistical inference ENCN304: Deterministic Mathematical Methods, Guest Lecturer, University of Canterbury Lectured vector spaces, systems of differential equations and surface integrals ENCN304: Deterministic Mathematical Methods, TA Coordinator, University of Canterbury Prepared homework assignments, managed TA hours and grading held tutorial sessions ENCN305: Stoch. Modelling and Programming, Teaching Assistant, University of Canterbury Held review sessions, MATLAB computer tutorials, graded assignments EMTH217: Math Modelling and Computation, Teaching Assistant, University of Canterbury Graded, and held tutorials on multivariable integral and differential calculus, linear algebra, and statistics with engineering applications. AFFILIATIONS American Statistical Association (AMSTAT) Institute for Operations Research and Management Sciences (INFORMS) American Society of Civil Engineers (ASCE) Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) 17 assistant (2012 – present) Newsletter Editor (2013 – 2015) President Cansulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising 2016 – 2017	POSTER PRESENTATIONS	
Royal Gala apples." Joint Statistical Meeting, Chicago. Logan, T. M., McLeod, S., and Guikema, S. "Predictive models in horticulture: A case study with Royal Gala apples." Michigan Student Symposium for Interdisciplinary Statistical Sciences, Ann Arbor. TEACHING EXPERIENCE 10E 460: Decision Analysis, Graduate Student Instructor, University of Michigan 2016 10E 460: Decision Analysis, Substitute Lecturer, University of Michigan 2015 Lectured introduction to probability 570.210: Computational, Mathematical Modelling, Guest Lecturer, Johns Hopkins University Lectured statistical inference ENCN304: Deterministic Mathematical Methods, Guest Lecturer, University of Canterbury Lectured vector spaces, systems of differential equations and surface integrals ENCN304: Deterministic Mathematical Methods, TA Coordinator, University of Canterbury Prepared homework assignments, managed TA hours and grading, held tutorial sessions ENCN305: Stoch. Modelling and Programming. Teaching Assistant, University of Canterbury Held review sessions, MATLAB computer tutorials, graded assignments EMTH211: Math Modelling and Computation, Teaching Assistant, University of Canterbury Held weekly MATLAB tutorials EMTH210: Engineering Mathematics 2, Teaching Assistant, University of Canterbury Graded, and held tutorials on multivariable integral and differential calculus, linear algebra, and statistics with engineering applications. AFFILIATIONS American Statistical Association (AMSTAT) Institute for Operations Research and Management Sciences (INFORMS) American Statistical Association (AMSTAT) Institute for Operations Research and Management Sciences (INFORMS) 2015 - Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 - present) Newsletter Editor (2013 - 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium		2016
Royal Gala apples." Michigan Student Symposium for Interdisciplinary Statistical Sciences, Ann Arbor. TEACHING EXPERIENCE IOE 460: Decision Analysis, Graduate Student Instructor, University of Michigan 2015 Lectured introduction to probability 570.210: Computational, Mathematical Modelling, Guest Lecturer, Johns Hopkins University Lectured statistical inference ENCN304: Deterministic Mathematical Methods, Guest Lecturer, University of Canterbury Lectured vector spaces, systems of differential equations and surface integrals ENCN304: Deterministic Mathematical Methods, TA Coordinator, University of Canterbury Prepared homework assignments, managed TA hours and grading, held tutorial sessions ENCN304: Deterministic Mathematical Methods, Ta Coordinator, University of Canterbury Prepared homework assignments, managed TA hours and grading, held tutorial sessions ENCN305: Stoch. Modelling and Programming. Teaching Assistant, University of Canterbury Held review sessions, MATLAB computer tutorials, graded assignments EMTH217: Math Modelling and Computation, Teaching Assistant, University of Canterbury Held weekly MATLAB tutorials EMTH210: Engineering Mathematics 2, Teaching Assistant, University of Canterbury Graded, and held tutorials on multivariable integral and differential calculus, linear algebra, and statistics with engineering applications. Affiliations American Statistical Association (AMSTAT) Institute for Operations Research and Management Sciences (INFORMS) 2015 - Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management,		2016
IOE 460: Decision Analysis, Graduate Student Instructor, University of Michigan IOE 460: Decision Analysis, Substitute Lecturer, University of Michigan Lectured introduction to probability 570.210: Computational, Mathematical Modelling, Guest Lecturer, Johns Hopkins University Lectured statistical inference ENCN304: Deterministic Mathematical Methods, Guest Lecturer, University of Canterbury Lectured vector spaces, systems of differential equations and surface integrals ENCN304: Deterministic Mathematical Methods, TA Coordinator, University of Canterbury Prepared homework assignments, managed TA hours and grading, held tutorial sessions ENCN305: Stoch. Modelling and Programming. Teaching Assistant, University of Canterbury Held review sessions, MATLAB computer tutorials, graded assignments EMTH171: Math Modelling and Computation, Teaching Assistant, University of Canterbury Graded, and held tutorials on multivariable integral and differential calculus, linear algebra, and statistics with engineering applications. AFFILIATIONS American Statistical Association (AMSTAT) Institute for Operations Research and Management Sciences (INFORMS) Society for Risk Analysis (SRA) American Society of Civil Engineers (ASCE) Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch	Royal Gala apples." Michigan Student Symposium for Interdisciplinary Statistical	2015
IOE 460: Decision Analysis, Substitute Lecturer, University of Michigan Lectured introduction to probability S70.210: Computational, Mathematical Modelling, Guest Lecturer, Johns Hopkins University Lectured statistical inference ENCN304: Deterministic Mathematical Methods, Guest Lecturer, University of Canterbury Lectured vector spaces, systems of differential equations and surface integrals ENCN304: Deterministic Mathematical Methods, TA Coordinator, University of Canterbury Prepared homework assignments, managed Ta hours and grading, held tutorial sessions ENCN305: Stoch. Modelling and Programming, Teaching Assistant, University of Canterbury Held review sessions, MATLAB computer tutorials, graded assignments EMTH171: Math Modelling and Computation, Teaching Assistant, University of Canterbury Held weekly MATLAB tutorials EMTH210: Engineering Mathematics 2, Teaching Assistant, University of Canterbury Graded, and held tutorials on multivariable integral and differential calculus, linear algebra, and statistics with engineering applications. 2011-2014	TEACHING EXPERIENCE	
Lectured introduction to probability 570.210: Computational, Mathematical Modelling, Guest Lecturer, Johns Hopkins University 570.210: Computational, Mathematical Modelling, Guest Lecturer, Johns Hopkins University 570.210: Lectured statistical inference ENCN304: Deterministic Mathematical Methods, Guest Lecturer, University of Canterbury Lectured vector spaces, systems of differential equations and surface integrals ENCN304: Deterministic Mathematical Methods, TA Coordinator, University of Canterbury Prepared homework assignments, managed TA hours and grading, held tutorial sessions ENCN305: Stoch. Modelling and Programming, Teaching Assistant, University of Canterbury Held review sessions, MATLAB computer tutorials, graded assignments EMTH171: Math Modelling and Computation, Teaching Assistant, University of Canterbury Graded, and held tutorials on multivariable integral and differential calculus, linear algebra, and statistics with engineering applications. AFFILIATIONS American Statistical Association (AMSTAT) Institute for Operations Research and Management Sciences (INFORMS) American Society of Civil Engineers (ASCE) Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011	IOE 460: Decision Analysis, Graduate Student Instructor, University of Michigan	2016
Lectured statistical inference ENCN304: Deterministic Mathematical Methods, Guest Lecturer, University of Canterbury Lectured vector spaces, systems of differential equations and surface integrals ENCN304: Deterministic Mathematical Methods, TA Coordinator, University of Canterbury Prepared homework assignments, managed TA hours and grading, held tutorial sessions ENCN305: Stoch. Modelling and Programming, Teaching Assistant, University of Canterbury Held review sessions, MATLAB computer tutorials, graded assignments EMTH171: Math Modelling and Computation, Teaching Assistant, University of Canterbury Held weekly MATLAB tutorials EMTH210: Engineering Mathematics 2, Teaching Assistant, University of Canterbury Graded, and held tutorials on multivariable integral and differential calculus, linear algebra, and statistics with engineering applications. AFFILIATIONS American Statistical Association (AMSTAT) Institute for Operations Research and Management Sciences (INFORMS) Society for Risk Analysis (SRA) American Society of Civil Engineers (ASCE) Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch		2015
Lectured vector spaces, systems of differential equations and surface integrals ENCN304: Deterministic Mathematical Methods, TA Coordinator, University of Canterbury Prepared homework assignments, managed TA hours and grading, held tutorial sessions ENCN305: Stoch. Modelling and Programming, Teaching Assistant, University of Canterbury Held review sessions, MATLAB computer tutorials, graded assignments EMTH171: Math Modelling and Computation, Teaching Assistant, University of Canterbury Held weekly MATLAB tutorials EMTH210: Engineering Mathematics 2, Teaching Assistant, University of Canterbury Graded, and held tutorials on multivariable integral and differential calculus, linear algebra, and statistics with engineering applications. AFFILIATIONS American Statistical Association (AMSTAT) Institute for Operations Research and Management Sciences (INFORMS) Society for Risk Analysis (SRA) American Society of Civil Engineers (ASCE) Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011	Lectured statistical inference	
Prepared homework assignments, managed TA hours and grading, held tutorial sessions ENCN305: Stoch. Modelling and Programming. Teaching Assistant, University of Canterbury Held review sessions, MATLAB computer tutorials, graded assignments EMTH171: Math Modelling and Computation, Teaching Assistant, University of Canterbury Held weekly MATLAB tutorials EMTH210: Engineering Mathematics 2, Teaching Assistant, University of Canterbury Graded, and held tutorials on multivariable integral and differential calculus, linear algebra, and statistics with engineering applications. AFFILIATIONS American Statistical Association (AMSTAT) Institute for Operations Research and Management Sciences (INFORMS) Society for Risk Analysis (SRA) American Society of Civil Engineers (ASCE) Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch	Lectured vector spaces, systems of differential equations and surface integrals	
Held review sessions, MATLAB computer tutorials, graded assignments EMTH171: Math Modelling and Computation, Teaching Assistant, University of Canterbury Held weekly MATLAB tutorials EMTH210: Engineering Mathematics 2, Teaching Assistant, University of Canterbury Graded, and held tutorials on multivariable integral and differential calculus, linear algebra, and statistics with engineering applications. AFFILIATIONS American Statistical Association (AMSTAT) Institute for Operations Research and Management Sciences (INFORMS) Society for Risk Analysis (SRA) American Society of Civil Engineers (ASCE) Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Filton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011	Prepared homework assignments, managed TA hours and grading, held tutorial sessions	
Held weekly MATLAB tutorials EMTH210: Engineering Mathematics 2, Teaching Assistant, University of Canterbury Graded, and held tutorials on multivariable integral and differential calculus, linear algebra, and statistics with engineering applications. AFFILIATIONS American Statistical Association (AMSTAT) Institute for Operations Research and Management Sciences (INFORMS) Society for Risk Analysis (SRA) American Society of Civil Engineers (ASCE) Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011	Held review sessions, MATLAB computer tutorials, graded assignments	
EMTH210: Engineering Mathematics 2, Teaching Assistant, University of Canterbury Graded, and held tutorials on multivariable integral and differential calculus, linear algebra, and statistics with engineering applications. AFFILIATIONS American Statistical Association (AMSTAT) Institute for Operations Research and Management Sciences (INFORMS) Society for Risk Analysis (SRA) 2015 - Society for Risk Analysis (SRA) American Society of Civil Engineers (ASCE) Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 - present) Newsletter Editor (2013 - 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011		2013
American Statistical Association (AMSTAT) Institute for Operations Research and Management Sciences (INFORMS) Society for Risk Analysis (SRA) American Society of Civil Engineers (ASCE) Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011	EMTH210: Engineering Mathematics 2, Teaching Assistant, University of Canterbury Graded, and held tutorials on multivariable integral and differential calculus, linear algebra,	2011-2014
American Statistical Association (AMSTAT) Institute for Operations Research and Management Sciences (INFORMS) Society for Risk Analysis (SRA) American Society of Civil Engineers (ASCE) Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011	AEGUATIONS	
Society for Risk Analysis (SRA) American Society of Civil Engineers (ASCE) Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011	American Statistical Association (AMSTAT)	
American Society of Civil Engineers (ASCE) Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011	Institute for Operations Research and Management Sciences (INFORMS)	2015 –
Generation Zero, New Zealand Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011	Society for Risk Analysis (SRA)	2015 –
Transportation Team Leader, Christchurch Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch	American Society of Civil Engineers (ASCE)	2015 -
IT assistant (2012 – present) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013) EXPERIENCE First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011	•	2014
First Quartile Consulting, Data Consultant Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011	IT assistant (2012 – present) Newsletter Editor (2013 – 2015)	2012 -
Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011	EXPERIENCE	
Committee Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011		2016
Water team: technical drawing management, winery wastewater regulation, other projects Fulton Hogan Christchurch Southern Motorway Project Team, Student Engineer 2011 Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants, Technical Assistant, Christchurch 2011		2016 -2017
Labouring, surveying, quality assurance, and other jobs as required. Abley Transportation Consultants , <i>Technical Assistant</i> , Christchurch 2011		2012
Abley Transportation Consultants, Technical Assistant, Christchurch 2011		2011
	Abley Transportation Consultants, Technical Assistant, Christchurch	2011

Co-founder of the online textbook store. Jointly responsible for inventory management, accounting, deliveries.

KEY STRENGTHS

Activator

I like to turn ideas into action. I can motivate and energise myself and others into seeing things happen.

Relator

I enjoy working with other people, and seeing them realise their goals. I invest a lot of energy in assisting my team mates, colleagues, and students succeed.

Focus

I can take a direction, follow through, and stay on track. I have a strong work ethic and am organised, often planning weeks ahead. I can happily work independently, and I know where to look for help if I need it.

Leadership

These strengths make a good leader because I can work with people to identify their strengths, goals, and a direction in which to proceed to succeed.

SKILLS

Programming

Experienced: Python • R Familiar: Bash • SQL • HTML

Tools/Applications

MATLAB • Adobe CS • MS Office • ArcGIS