TOM LOGAN

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EDUCA	TION	
	University of Michigan, Ann Arbor, USA	
	PhD in Industrial and Operations Engineering (expected) Advisor: Prof. Seth Guikema	2015 –
	Master of Arts in Statistics (expected)	2015 -
	Johns Hopkins University, Baltimore, USA Matter of Science in Coography and Engineering	2014 2015
	Master of Science in Geography and Environmental Engineering University of Canterbury, New Zealand	2014 – 2015
	Bachelor of Science in Mathematics	2013 - 2014
	Bachelor of Engineering in Natural Resources Engineering with First Class Honours	2010 - 2013
Awar	DS	
	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
Journ	AL PUBLICATIONS	
	Logan, T. M., Bricker, J. D., and Guikema, S. D. (n.d.). "Hard-defenses fail to improve urban	2017
	resilience in the face of natural disasters." <i>Under review.</i> Logan, T. M., Williams, T. G., Nisbet, A. J., Liberman, K. D., Zuo, C. T., and Guikema, S. D. (n.d.). "Assessing parcel-resolution multi-modal accessibility to core services." <i>Under review.</i>	2017
	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
CONFE	RENCE PRESENTATIONS	
	Logan, T. M. and Guikema, S. D. (2017). "Urban development alongside ¿man-made? disasters." Michigan University-Wide Sustainability and Environment (MUSE) Conference.	2017
	Logan, T. M., Williams, T. G.*, Nisbet, A. J., Liberman, K. D., Zuo, C. T., and Guikema, S. D. (2017). "Assessing parcel-resolution multi-modal accessibility to core services." <i>Michigan University-Wide Sustainability and Environment (MUSE) Conference.</i>	2017
	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	2015		
* indicates presenting autho	r, when not first		
Decres Personances			
POSTER PRESENTATIONS Logan, T. M., Bricker, J., and Guikema, S. "Tsunamis, seawalls, and memory: urban development	2016		
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." <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>Michigan Student Symposium for Interdisciplinary Statistical Sciences</i> , Ann Arbor.	2015		
TEACHING EXPERIENCE			
IOE 460: Decision Analysis, Graduate Student Instructor, University of Michigan	2016		
IOE 460: Decision Analysis, Substitute Lecturer, University of Michigan	2015		
Lectured introduction to probability 570.210: Computational, Mathematical Modelling , <i>Guest Lecturer</i> , Johns Hopkins University	2015		
Lectured statistical inference ENCN304: Deterministic Mathematical Methods, Guest Lecturer, University of Canterbury	2014		
Lectured vector spaces, systems of differential equations and surface integrals ENCN304: Deterministic Mathematical Methods, <i>TA Coordinator,</i> University of Canterbury	2014		
Prepared homework assignments, managed TA hours and grading, held tutorial sessions ENCN305: Stoch. Modelling and Programming, <i>Teaching Assistant,</i> University of Canterbury Held review sessions, MATLAB computer tutorials, graded assignments	2014		
EMTH171: Math Modelling and Computation, Teaching Assistant, University of Canterbury Held weekly MATLAB tutorials	2013		
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		
Affiliations			
American Statistical Association (AMSTAT)	2016 -		
Institute for Operations Research and Management Sciences (INFORMS) Secretary, Student Chapter at the University of Michigan (2017)	2015 –		
Society for Risk Analysis (SRA)	2015 -		
American Society of Civil Engineers (ASCE)	2015 -		
Generation Zero, New Zealand Transportation Team Leader, Christchurch	2014		
Engineers Without Borders New Zealand (EWBNZ) IT assistant (2012 – 2017) Newsletter Editor (2013 – 2015) President Canterbury Students' Chapter (2013)	2012 - 2017		
Experience			
First Quartile Consulting, Data Consultant	2016		
Predictive modelling and data compilation. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Organising Committee	2016 -2017		

Beca Infrastructure Ltd., Engineering Technician, Christchurch Water team: technical drawing management, winery wastewater regulation, other projects	2012
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
I wrote Python code to process NZ transport survey data and conducted traffic surveys.	
Student Bookshelf Ltd., Director, New Zealand	2011 - 2013
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