Tim Williams

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Objectives

My long-term goals are to advance the understanding of how coupled human-natural systems function, and to explore how we can influence these systems in a way that promotes both the betterment of society and the prosperity of the environment.

Education

University of Michigan	PhD in Industrial and Operations Engineering (expected) Advisor: Dr. Seth Guikema	2016-present
University of Canterbury New Zealand	Bachelor of Engineering with 1st class honors Natural Resources Engineering GPA 9.0 / 9.0	2012-2015
University of California, Berkeley	Exchange Program Civil and Environmental Engineering GPA 4.0 / 4.0	2015

Journal Publications

Logan, T. M., **Williams, T. G.**, Nisbet, A. J., Liberman, K. D., Zuo, C. T., and Guikema, S. D. (2017). "Evaluating urban accessibility: Leveraging open-source data and analytics to overcome existing limitations." *Environment and Planning B – Urban Analytics and City Science* 2017

Zhou, J., Cenedese, C., **Williams, T.,** Ball, M., Venayagamoorthy, S., Nokes, R. (2017) "On the propagation of gravity currents over and through a submerged array of cylinders." *Journal of Fluid Mechanics* 2017

Conference Presentations

Williams, T.*, Logan, T, Zuo, C., Liberman, K., and Guikema, S. (2017). "How accessible are our cities? A cross-sectional analysis of access to green space." *INFORMS Annual Meeting* 2017

Logan, T. M., **Williams, T. G.***, Nisbet, A. J., Liberman, K. D., Zuo, C. T., and Guikema, S. D. (2017). "Measuring accessibility to core urban services." *Michigan University-Wide Sustainability and Environment (MUSE) Conference.* 2017

* indicates presenting author

Poster Presentations

Williams, T.*, Logan, T, Zuo, C., Liberman, K., and Guikema, S. "How accessible are our cities? A cross-sectional analysis of access to green space." *Michigan University-Wide Sustainability and Environment (MUSE) Conference.* 2018

Williams, T.*, Logan, T, Zuo, C., Liberman, K., and Guikema, S. "How accessible are our cities? A cross-sectional analysis of access to green space." *University of Michigan Engineering Graduate Symposium* 2017

Williams, T.*, Logan, T, Zuo, C., Liberman, K., and Guikema, S. "How accessible are our cities? A cross-sectional analysis of access to green space." *Research Symposium 2017: Urban Environment. Environmental Science and Policy Program. Michigan State University* 2017

* indicates presenting author

Service and Leadership

Michigan University-wide Sustainability and Environment (MUSE) Conference 2018: Workshops organizer	2017-18
University of Michigan Adventure Racing, Rogaining, and Orienteering (ARRO) Club president	2017-18
University of Canterbury Meditation Club President	2014-2015
Engineers Without Borders (EWB) Canterbury Students Committee member	2014
EWB Conference Team	2013-2014

Awards

Industrial and Operations Engineering Department Fellowship	2016
John Blackett Prize	2015
University of Canterbury Natural Resources Engineering Prize	2015
Environment Canterbury Natural Resources Engineering Prize	2015
IPENZ Rivers Group UC Prize	2014
Tonkin & Taylor Hydrology and Hydraulic Engineering Prize	2014
Beca Engineering in Society Scholarship	2014
URS Scholarship	2014
MWH New Zealand Ltd Geotechnical Engineering Prize	2014
C S McCully Scholarship	2014
Ian McMillan Prizes	2014
Vice Chancellor's Excellence Award	2014
MWH / Jim McFarlane Memorial Prize	2013
College House Rowley Scholarship	2013
University of Canterbury Emerging Leaders Scholarship	2012
University of Canterbury Undergraduate Entrance Scholarship	2012
NZQA Scholarship Physics	2011

Teaching Experience

ENCN342: Fluid mechanics – *tutor*	2015
ENGR102: Engineering mechanics - *tutor*	2014

Miscellaneous private tutoring for freshman-level engineering classes 2013-2014

Industry Experience

Beca – *Graduate Environmental Engineer*, Auckland Water Team 2016
Water treatment plant design, pipeline routing, landfill leachate tank design

Beca – *Summer Intern*, Auckland Water Team 2014-2015
Writing and editing reports, GoldSim modeling

Geotechnics Ltd – *Summer Intern*, Auckland 2013-2014
Calibrating and repairing shear vanes and impact testers

Key Strengths

Gallup Strengths Finder® strengths:

- **Harmony**: I believe that little can be gained from conflict, and aspire to bring people together via their similarities.
- **Achiever**: I have a constant need for attainment.
- **Relator**: I derive pleasure and strength from forming close relationships with people.
- **Includer**: I want to include people and make them feel a part of the group. I am instinctively accepting of others, regardless of race, sex, nationality, personality, or faith.
- **Learner**: I constantly strive to learn and improve. The process of learning is as important as the knowledge I gain.

Other Skills

- Programming in R, Python, and MATLAB
- Intermediate level German language

Interests

- Running: RAGNAR del Sol (2015), Shotover Moonlight mountain marathon (2014), Speights West Coaster 21K (2014), Speights West Coaster 30K (2013), Port Hills crater rim 28K (2013), Auckland half marathon (2011),
- Adventure racing, rogaining, and orienteering: Flying pig (2017), Python rogaine (2016), Sleeping Bear Adventure Race (2016), TWALK (2013, 2014, 2016), Castle hill bouldergaine (2014), Golden Road rogaine (2014), Heights of Winter rogaine (2013)
- Cross country skiing: USCSA Nationals (2017), Michigan cup races (2017)
- Yoga and meditation
- Skiing

References

Available upon request.