

Peter C. Jentsch
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<https://pcjentsch.github.io/>

09/2016 - expected 07/2021	PhD Candidate, Applied Mathematics <i>University of Waterloo</i>
09/2011 - 08/2016	Honours Bachelours of Mathematics, Applied Mathe- matics, <i>University of Waterloo</i>

Jentsch PC, Bauch CT, Yemshanov D, Anand M. Go big or go home: A model-based assessment of general strategies to slow the spread of forest pests via infested firewood. *PloS one*. 2020 Sep 15;15(9):e0238979.

Jentsch PC, Anand M, Bauch CT. Spatial correlation as an early warning signal of regime shifts in a multiplex disease-behaviour network. *Journal of theoretical biology*. 2018 Jul 7;448:17-25.

Jentsch PC, Boukhtouta A. A Simulation Study Of Military Land Equipment Availability Under Corrective And Preventive Maintenance Regimes. In ECMS 2015 (pp. 373-379).

Pedro SA, Ndjomatchoua FT, **Jentsch P**, Tchuente JM, Anand M, Bauch CT. Conditions for a Second Wave of COVID-19 Due to Interactions Between Disease Dynamics and Social Processes. *Frontiers in Physics*. 2020 Oct 9;8.

Boukhtouta A, **Jentsch P**. Support Vector Machine for Demand Forecasting of Canadian Armed Forces Spare Parts. In 2018 6th International Symposium on Computational and Business Intelligence (ISCBI) 2018 Aug 27 (pp. 59-64). IEEE.

Rao CJ, Liu JE, Dong JH, **Jentsch PC**. Hybrid multi-attribute decision making method of electric coal procurement in industry. Fuzzy Information and Engineering. 2014 Dec 1;6(4):451-62.

Jentsch PC, Anand M, Bauch CT. Prioritising covid-19 vaccination in changing social and epidemiological landscapes. medRxiv. 2020 Jan 1. *Accepted, Lancet Infectious Diseases*

Jentsch PC, Nehaniv CL. Analysis of Tetris as a Transformation Semigroup.
Accepted, proceedings of AMMCS2019

Jentsch PC, Anand M, Bauch CT. Fire Mitigates Bark Beetle Outbreaks in Serotinous Forests. Under Review.

Conference Presentations

Oral Communications

- 02/2021 SMB Mathematical Epidemiology
Prioritizing COVID-19 Vaccination in Changing Social and Epidemiological Landscapes
- 01/2021 Invited speaker, Joint Mathematics Meeting 2021, Washington D.C.
Prioritizing COVID-19 Vaccination in Changing Social and Epidemiological Landscapes
- 08/2019 The Vth AMMCS International Conference, Wilfred Laurier University
Tetris As An Introduction to Krohn-Rhodes and Semigroup Theory
- 08/2019 The Vth AMMCS International Conference, Wilfred Laurier University
Fire Mediates Bark Beetle Outbreaks in Serotinous Forests

Poster Presentations

- 07/2019 SMB 2019, Université de Montréal
Fire Mediates Bark Beetle Outbreaks in Serotinous Forests
- 07/2018 CSEE 2018, University of Guelph
Fire Mediates Bark Beetle Outbreaks in Serotinous Forests
- 05/2017 Interdisciplinary Conference on Resilience in Complex Natural and Human Systems, WICI University of Waterloo
Spatial correlation as an early warning signal of regime shifts in a multiplex disease-behaviour network (award for best student poster)

Other Research Experience

- 04/2018 Reviewer for PLOS One
- 09/2015 - 12/2015 NSERC Undergraduate Student Research Award
Department Of Applied Mathematics, University Of Waterloo
- 05/2015 - 08/2015 Research Assistant
Defence Research and Development Canada, Toronto, Ontario
- 09/2014 - 12/2014 Research Internship
Institute Of Systems Science, National University of Singapore, Singapore
- 01/2014 - 04/2014 Time Series Analysis/Operations Research
Defence Research and Development Canada, Ottawa, Canada

Extracurriculars

- 06/2018 - 06/2019 Executive Committee for the Orchid Society Of The Royal Botanic Gardens, Hamilton, Ontario
- 09/2015 - 12/2015 UWaterloo Varsity Cheerleading, PCA Nationals 3rd Place