Etienne Leclerc

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EDUCATION

University of Victoria, Mathematics and Statistics Victoria, Canada
PhD. Applied Mathematics *Sep 2021–Present*

University of Victoria, Mathematics and Statistics Victoria, Canada
BSc. Honours in Mathematics & Computer Science, Honours in Statistics, GPA: 9.0/9.0 *Sep 2015 - Apr 2021*

Selected Awards: Governor General's Silver Medal, Dean's List, Ian & Sheila Barrodale Award in Computer Science & Mathematics

LANGUAGES

- English (fluent)
- French (fluent)

RESEARCH EXPERIENCE

A stochastic relaxation of the quasi-equilibrium assumption of tropical convection Victoria, Canada
PhD. Student, Supervisor: Boualem Khouider *Sep 2021 - Now*
    Funded by a NSERC CGS-M, 2021-2022

Towards a stochastic relaxation of the quasi-equilibrium assumption Victoria, Canada
Undergraduate Student, Supervisor: Boualem Khouider *May 2019 - Aug 2019*
    Funded by a NSERC USRA

Switching (m, n)-edge-coloured mixed graphs Victoria, Canada
Undergraduate Student, Supervisor: Gary MacGillivray *Sept 2018 - Apr 2019*
    Honours Project
    Funded by a Jamie Cassels Undergraduate Research Award
    Top Presenter in Mathematics and Statistics at Honours Fair

Towards a stochastic relaxation of the quasi-equilibrium assumption Victoria, Canada
Undergraduate Student, Supervisor: Boualem Khouider *May 2018 - Aug 2018*
    Funded by a NSERC USRA

PUBLICATIONS

- E. Leclerc, G. McGillivray, and J. Warren, "*Switching(m,n)-mixed graphs with respect to Abelian groups*", Manuscript submitted to Theoretical Computer Science, 2021
- B. Khouider and E. Leclerc, "*Toward a stochastic relaxation for the quasi-equilibrium theory of cumulus parameterization: Multicloud instability, multiple equilibria, and chaotic dynamics*", Journal of Advances in Modeling Earth Systems, vol. 11, no. 8, pp. 2474–2502, 2019.

TA APPOINTMENTS

Math and Stats Assistance Centre Tutor, Head Tutor University of Victoria
Calculus, linear algebra, discrete math and probability, real analysis, statistics *7 appointments from Fall 2018-Spring 2023 (1 as head tutor)*

Marker University of Victoria

Math 122: Logic and Foundations		*Fall 2020*
Math 492: Waves in the Atmosphere and Ocean		*Fall 2020*
Math 211: Matrix Algebra I		*Fall 2018*

Tutorial Instructor University of Victoria

Math 200: Calculus III		*Fall 2023, Fall 2022, Summer 2022, Spring 2022*
Math 110: Matrix Algebra for Engineers		*Fall 2023, Fall 2021*
Math 101: Calculus II		*Spring 2023, Fall 2021, Spring 2021*
Math 100: Calculus I		*Fall 2019*

SELECTED TALKS

- **Toward a Stochastic Relaxation for the Quasi-Equilibrium Theory of Cumulus Parameterization: Multicloud Instability, Multiple Equilibria, and Chaotic Dynamics** at CMOS Conference Summer 2021
- **A Whirlwind of Mathematics** at UVic Students in Undergraduate Mathematics Seminars2020
  A gentle introduction to fluid dynamics for a general undergraduate audience
- **Switching Homomorphisms on Mixed Graphs** at UVic Discrete Math Seminar Spring 2019
- **A Stochastic Cloud Parametrization** at UVic Undergraduate Math Conference Summer 2018
- **Minkowski's Theorem** at CMS Math Camp Summer 2018
  An interactive talk on the geometry of numbers, for engaged high school students