

Émile Nadeau

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Education

[†] *Indicates expected*

2019–2022 [†] Ph.D., Computer Science, University of Reykjavík

Supervisor: Henning Ulfarsson

2016–2018 M.Sc., Mathematics and Computer Science, LaCIM, Université du Québec à Montréal

Thesis Title: Fully Leafed Induced Subtree

Supervisor: Franco Saliola

2013–2016 B.Sc., Mathematics, Université du Québec à Montréal

Appointments

Fall 2018 Lecturer, Mathematics, Cégep du Vieux-Montréal

Fall 2018 Artificial Intelligence Research Intern, CANN Forecast

2016–2018 Teaching Assistant, Mathematics, Université du Québec à Montréal

Summer 2016 Research Intern, LaCIM

Summer 2015 Research Intern, LaCIM

Teaching

2018 201-NYB-05, Integral Calculus Cégep du Vieux-Montréal

Teaching Assistant

2018 MAT1060, Mathematics and Algorithm Université du Québec à Montréal

2017 MAT1150, Arithmetics and classical geometry Université du Québec à Montréal

2016 MAT1150, Arithmetics and classical geometry Université du Québec à Montréal

Selected Honours and Awards

- 2019 PhD Scholarship
 Research Fund Nature and Technology Quebec (FRQNT)
- 2019 PhD Scholarship
 Natural Sciences and Engineering Research Council of Canada (NSERC)
- 2018 Governor General’s Academic Gold Medal
- 2017 M.Sc. Scholarship
 Research Fund Nature and Technology Quebec (FRQNT)
- 2016 M.Sc. Scholarship
 Natural Sciences and Engineering Research Council of Canada (NSERC)
- 2016 Governor General’s Academic Silver Medal
- 2016 Undergraduate Student Research Awards
 Natural Sciences and Engineering Research Council of Canada (NSERC)
- 2015 Undergraduate Student Research Awards
 Natural Sciences and Engineering Research Council of Canada (NSERC)

Publications

Journals

- [1] Alexandre Blondin Massé, Julien de Carufel, Alain Goupil, Mélodie Lapointe, Émile Nadeau, and Élise Vandomme. Leaf realization problem, caterpillar graphs and prefix normal words. *Theoretical Computer Science*, 732:1 – 13, 2018.

Submitted

- [1] Christian Bean, Émile Nadeau, and Henning Ulfarsson. Enumeration of permutation classes and weighted labelled independent sets. 2019.

Conferences

- [1] Alexandre Blondin Massé, Julien de Carufel, Alain Goupil, Mélodie Lapointe, Émile Nadeau, and Élise Vandomme. Fully leafed induced subtree. In *Combinatorial algorithms*, volume 10979 of *Lecture Notes in Comput. Sci.*, pages 90–101. Springer, Cham, 2018.

Posters

- [1] Stéphanie Schanck Émile Nadeau. Elmsley’s problem for horseshoe permutations, 2017. *Permutation Patterns* 2017.

Contributed Presentations

- [1] Enumeration of permutation classes by inflation of independent sets of graphs, 2019. 27th British Combinatorial Conference.
- [2] Enumeration of permutation classes by inflation of independent sets of graphs, 2019. Icelandic Math Society 2019.
- [3] Enumeration of permutation classes by inflation of independent sets of graphs, 2019. Permutation Patterns.
- [4] Leaf realisation problem, caterpillar graphs and prefix normal words, 2018. seminar of combinatorics and discrete mathematics organized by the LaCIM.
- [5] Introduction to suffix tree, 2017. Student Seminar.
- [6] Elmsley's problem for horseshoe permutations, 2016. Seminars in Undergraduate Mathematics in Montreal.

Professional Activities

- Creator and Animator of the show *L'été c'est Mathématique*, a 30 min performance that introduce mathematical notation in a playful way to kids.
- Tour guide for *Balade Mathématique* a guided to to introduce the public to connection between the city of Montreal and some famous mathematical theorems. 2016 – 2018
- Student Volunteer, Conference WORDS 2017
- Committee Member, M.Sc. in Mathematics program committee, 2016 – 2018
- Executive committee member, Student Association of Graduate Student in Mathematics, 2016 – 2018
- Organizer, Seminars in Undergraduate Mathematics in Montreal 2017
- Organizer, Seminars in Undergraduate Mathematics in Montreal 2016

Languages

English, French