

# ALICE LACAZE-MASMONTEIL

## PERSONAL INFORMATION

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NATIONALITIES: Canadian and French  
CURRENT ADDRESS: 150 Louis-Pasteur Pvt, Ottawa, ON, Canada  
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## EDUCATION

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University of Ottawa, Ottawa, ON, Canada 2020 -  
Doctorate of Philosophy  
Expected completion date: September 2024  
Supervisor: Mateja Šajna  
Thesis title: Certain resolvable directed cycle decompositions

Acadia University, Wolfville, NS, Canada 2017 - 2019  
Master's of Science  
Supervisor: Nancy E. Clarke  
Thesis title: Some problems on the game of Ambush Cops and Robbers

Acadia University, Wolfville, NS, Canada 2012 - 2017  
Bachelor of Pure and Applied Sciences with Honours  
Supervisor: Nancy E. Clarke  
Thesis title: Cordial labeling of some new and existing classes of graphs

## PUBLICATIONS

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### Journal Articles

- [1] A. Lacaze-Masmonteil, Completing the solution of the directed Oberwolfach problem with cycles of uniform length, *Journal of Combinatorial Designs*, **32** (2024), 5-30.

### Articles Under Review

- [2] D. Horsley and A. Lacaze-Masmonteil, Completing the solution of the directed Oberwolfach problem with two tables, submitted on August 2024.

## PRESENTATIONS

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### Invited Presentations

*Resolution of the directed Oberwolfach problem with cycles of uniform length*, 10th Slovenian Conference on Graph Theory: Combinatorial Designs and their Applications Mini Symposium, Kranjska Gora, Slovenia June 2023

*Resolution of the directed Oberwolfach problem with cycles of uniform length*, 2023 Canadian Mathematical Society Summer Meeting: Design Theory and Graph Decomposition Session, Ottawa, ON, Canada June 2023

*Resolvable directed cycle decompositions of the complete symmetric digraph*, 2022 Canadian Mathematical Society Summer Meeting: Design Theory and Graph Decomposition Session, St. John's, NL, Canada June 2022

## Contributed Presentations

*Hamiltonian decompositions of the wreath product of two hamiltonian decomposable directed graphs*, Women in Combinatorics Virtual Conference, Online July 2024

*On the directed Oberwolfach problem with two tables*, 45th Australasian Combinatorics Conference, Perth, WA, Australia Dec. 2023

*Resolution of the directed Oberwolfach problem with cycles of uniform length*, 27th Ontario Combinatorics Workshop, Ottawa, ON, Canada May 2023

*Resolvable directed cycle decompositions of the complete symmetric digraph*, 26th Ontario Combinatorics Workshop, Waterloo, ON, Canada May 2022

*The game of Ambush Cops and Robbers played on chordal graphs and outerplanar graphs*, 25th Ontario Combinatorics Workshop, Online May 2021

*The game of Ambush Cops and Robbers played on the products of graphs*, 2018 Canadian Mathematical Society Winter Meeting: Student Committee Research Session, Vancouver, BC, Canada Dec. 2018

## Seminar Presentations

*On the directed Oberwolfach problem*, Monash University Discrete Mathematics Seminar, Melbourne, VIC, Australia Oct. 2023

## FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

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All monetary values are in Canadian dollars (CAD).

*Pacific Institute for the Mathematical Sciences (PIMS) - Centre National de Recherche Scientifique (CNRS) Postdoctoral Fellowship* 2024 - 2026

Valued at \$30,000 per year for two years with a supplement from the University of Regina of at least \$25,000 per year. To be held at the University of Regina under the supervision of Professor Karen Meagher.

*University of Ottawa Department of Mathematics and Statistics André Dabrowski Scholarship* 2023

Valued at \$1,400. Awarded annually to a student who has demonstrated qualities of leadership.

*University of Ottawa Department of Mathematics and Statistics Outstanding Student Paper Prize* 2023

This prize is awarded annually by the Departmental Teaching Personnel Committee to the best paper published by a student.

<i>Peter Rodney Memorial Book Prize</i>	2023
Awarded to the best student talk given at the 27th Ontario Combinatorics Workshop.	
<i>Natural Sciences and Engineering Research Council of Canada (NSERC) Michael Smith Foreign Study Supplement</i>	2023
Valued at \$6,000. Awarded to fund research visit to Monash University in Melbourne Australia.	
<i>NSERC Canada Graduate Scholarship - Doctoral</i>	2021 - 2024
Valued at \$35,000 per year. Awarded for a duration of three years.	
<i>University of Ottawa Doctoral Admission Scholarship</i>	2020 - 2024
Valued at \$9,000 per year. Awarded for a duration of four years.	
<i>Catherine Stanley Memorial Scholarship</i>	2018
Valued at \$1,000. Awarded to a student that has demonstrated excellence and enthusiasm as a department teaching assistant.	
<i>NSERC Canada Graduate Scholarship - Master's</i>	2017 - 2018
Valued at \$17,500. Awarded for a duration of one year.	
<i>Acadia Undergraduate Mathematics Competition: Best Paper</i>	2016