

**CARLETON UNIVERSITY**  
**School of Mathematics and Statistics**  
**PH.D. THESIS EXAMINATION**

**CANDIDATE:**            *Daniel Johnson*  
                              *Master of Science, University of Manitoba, 2018*  
                              *Bac of Mathematics (Honours), Carleton University, 2010*

**DATE:**                    *Monday September 08, 2025, 09:30 MacPhail Room 4351 Herzberg Building, 4th floor*

**THESIS TITLE:**        *Evolutions in Knapsack Cryptology*

**EXAMINATION BOARD:**

<b>External Examiner</b>	Koray Karabina, National Research Center	(In Person)
<b>Internal Examiner</b>	Michel Barbeau, Department of Computer Science, Carleton University	(In Person)
<b>Member of Joint Institute</b>	Gary Walsh, Department of Mathematics and Statistics, Ottawa University	(In Person)
<b>Member of Department</b>	Colin Ingalls, School of Mathematics and Statistics, Carleton University	(In Person)
<b>Thesis Supervisor</b>	Daniel Panario, School of Mathematics and Statistics, Carleton University	(In Person)
<b>Chair of Defence</b>	Simon Power, Department of Economics, Carleton University	(In Person)
<b>Chair/Director of Department or Designate</b>	Colin Ingalls, School of Mathematics and Statistics, Carleton University	(Ex-officio)
<b>Dean of Faculty</b>	Maria DeRosa, Faculty of Science, Carleton University	(Ex-officio)
<b>Vice-Provost, Graduate Studies</b>	Nadeem Siddiqi, Graduate Studies	(Ex-officio)