

# Andrew M. Rose

Holland College Waterfront Campus ◦ 98 Water Street, Summerside PE, Canada  
Holland College Prince of Wales Campus ◦ 140 Weymouth Street, Charlottetown, PE, Canada  
amrose@hollandcollege.com ◦ (902) 888-6748 ◦ www.andrewmrose.ca

## EDUCATION

---

### **Bachelor of Education** 2019

Intermediate/Secondary - Mathematics and Science (Physics), Faculty of Education  
Memorial University, St. John's, NL

### **Master of Science** 2019

Mathematics, Faculty of Science and School of Graduate Studies  
Memorial University, St. John's, NL

**Thesis:** Constructing Static Black-Soliton Spacetimes

**Thesis Supervisor:** Dr. Hari Kunduri

### **Bachelor of Science, Honours** 2015

Applied Mathematics and Physics, Faculty of Science  
Memorial University, St. John's, NL

**Thesis:** Adaptive Mesh Methods and a Schwarz Algorithm Implementation of a Smoothed Mesh Generating Function

**Thesis Supervisor:** Dr. Ronald Haynes

## EMPLOYMENT HISTORY

---

### **Learning Manager, Holland College, Summerside and Prince of Wales Campuses** Aug 2022 - Present

- Instructor responsible for facilitating post-secondary courses in mathematics and physics within Industrial Technology and Trades programs.

### **Health Information Specialist, Health PEI, Charlottetown, PE** Aug 2021 - August 2022

- Responsible for developing backend code for various projects related to the day-to-day functioning and analytics of Health PEI.
- Experience working with various coding languages such as R and SQL, as well as associated software such as RStudio and DBever.

### **Instructor - CAS Transfer Program, College of the North Atlantic, Carbonear Campus** Aug 2019 - Aug 2021

- Sole instructor for transfer year courses in Algebra and Trigonometry, Finite Mathematics, and Calculus.
- Responsible for design and administration of evaluation as well as delivery of instruction and content.
- Selected to develop teaching modules and resources for online instruction.

## PROFESSIONAL DEVELOPMENT & CERTIFICATIONS

---

### **Post-Secondary Instructors Certificate, Newfoundland and Labrador** 2021

- Certified Post-Secondary Instructor in Newfoundland and Labrador.

### **(Interim) Secondary Teaching Certificate VII, Newfoundland and Labrador** 2019

- Licensed to teach at the Intermediate/Secondary levels across Newfoundland and Labrador.

### **Teaching Skills Enhancement Program (TSEP), Memorial University** 2018

- Participated in discussions surrounding the unique challenges faced by different disciplines and learning styles
- Prepared and delivered lectures for an introductory level undergraduate course in mathematics under the supervision of a faculty member

### **Graduate Program in Mathematics and Statistics Teaching, Memorial University** 2018

- Attended various seminars on the role and responsibilities of a post-secondary educator
- Delivered lectures on an introductory topic in the mathematical sciences

## PUBLICATIONS

---

Jahrul Alam, Raymond Walsh, Alamgir Hossain, **Andrew Rose** "A computational methodology for two-dimensional fluid flows," in *International Journal for Numerical Methods in Fluids*. 2014

## SKILLS & COMPETENCIES

**Programming:** C, C++, FORTRAN, Java, JavaScript, L<sup>A</sup>T<sub>E</sub>X, Mathematica, Markdown, MATLAB, Python, R, SQL

**Operating Systems:** Linux, Microsoft Windows, MacOS

Excellent written and verbal communication skills

## INVITED LECTURES & CONFERENCES

**“Constructing Static Black Hole-Soliton Spacetimes,”** Oct 11 2019

Masters Thesis Presentation *Memorial University*

**“Adaptive Mesh Methods and a Smoothed Schwarz Algorithm Implementation,”** Sept 22 2014

Summer Undergraduate Research Forum *Memorial University*

**“Numerical Simulation of Two-Dimensional Fluid Flow,”** Sept 16 2013

Summer Undergraduate Research Forum *Memorial University*

## COMMITTEES, GROUPS, ORGANIZATIONS & VOLUNTEERING

**Faculty Representative**, Campus Scholarship Committee 2019 - 2021

*College of the North Atlantic, Carbonear, NL*

**Student Representative**, Faculty of Education Admissions Committee 2018 - 2019

*Memorial University, St. John's, NL*

**Dog Walker**, Animal Care & Services 2016 - 2017

*SPCA St. John's, St. John's, NL*

**Student Representative**, Science Society 2014 - 2015

*Memorial University, St. John's, NL*

**Secretary**, Physics and Physical Oceanography Student Society 2014 - 2015

*Memorial University, St. John's, NL*

**Representative**, Physics and Physical Oceanography Student Society 2013 - 2014

*Memorial University, St. John's, NL*

**Junior/Senior VP Academic**, Engineering Society ‘A’ 2010 - 2011

*Memorial University, St. John's, NL*

**Student Representative**, Engineering Committee for Undergraduate Studies 2010 - 2011

*Memorial University, St. John's, NL*

**Student Representative**, Engineering Academic Integrity Committee 2010 - 2011

*Memorial University, St. John's, NL*

## AWARDS & HONOURS

**Recognition of Excellence** 2018

*Memorial University, St. John's, NL*

**Dean's Excellence Award**, \$5,000 2017

*Memorial University, St. John's, NL*

**NSERC Canadian Graduate Scholarship - Master's (CGS-M)**, \$17,500 2017

*Memorial University, St. John's, NL*

**Science Undergraduate Research Award (SURA)** 2013, 2014, 2015

*Memorial University, St. John's, NL*

**Dean's List** 2013, 2014, 2015

*Memorial University, St. John's, NL*

**Queen Elizabeth II Graduate Scholarship in Science and Technology**, \$15,000 - Declined 2015

*University of Waterloo, Waterloo, ON*

**The Harvey and Doris Murcell Scholarship**, \$1,000 2014

*Memorial University, St. John's, NL*

## REFERENCES

Available Upon Request