

# Andrew M. Rose

15 Smallwood Crescent. ◦ Charlottetown PE, Canada ◦ C1A 3J4

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## EDUCATION

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### 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

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### Health Information Specialist, Health PEI

Aug 2021 - Present

- 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 DBeaver.

### 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

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### 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

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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

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**Programming:** C, C++, FORTRAN, Java, JavaScript,  $\text{\LaTeX}$ , Mathematica, Markdown, MATLAB, Python, R, SQL

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

Excellent written and verbal communication skills

## INVITED LECTURES & CONFERENCES

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<b>“Adaptive Mesh Methods and a Smoothed Schwarz Algorithm Implementation,”</b> Summer Undergraduate Research Forum <i>Memorial University</i>	Sept 22 2014
<b>“Numerical Simulation of Two-Dimensional Fluid Flow,”</b> Summer Undergraduate Research Forum <i>Memorial University</i>	Sept 16 2013

## COMMITTEES, GROUPS, ORGANIZATIONS & VOLUNTEERING

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<b>Faculty Representative</b> , Campus Scholarship Committee <i>College of the North Atlantic, Carbonear, NL</i>	2019 - 2021
<b>Student Representative</b> , Faculty of Education Admissions Committee <i>Memorial University, St. John’s, NL</i>	2018 - 2019
<b>Dog Walker</b> , Animal Care & Services <i>SPCA St. John’s, St. John’s, NL</i>	2016 - 2017
<b>Student Representative</b> , Science Society <i>Memorial University, St. John’s, NL</i>	2014 - 2015
<b>Secretary</b> , Physics and Physical Oceanography Student Society <i>Memorial University, St. John’s, NL</i>	2014 - 2015
<b>Representative</b> , Physics and Physical Oceanography Student Society <i>Memorial University, St. John’s, NL</i>	2013 - 2014
<b>Junior/Senior VP Academic</b> , Engineering Society ‘A’ <i>Memorial University, St. John’s, NL</i>	2010 - 2011
<b>Student Representative</b> , Engineering Committee for Undergraduate Studies <i>Memorial University, St. John’s, NL</i>	2010 - 2011
<b>Student Representative</b> , Engineering Academic Integrity Committee <i>Memorial University, St. John’s, NL</i>	2010 - 2011

## AWARDS & HONOURS

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<b>Recognition of Excellence</b> <i>Memorial University, St. John’s, NL</i>	2018
<b>Dean’s Excellence Award</b> , \$5,000 <i>Memorial University, St. John’s, NL</i>	2017
<b>NSERC Canadian Graduate Scholarship - Master’s (CGS-M)</b> , \$17,500 <i>Memorial University, St. John’s, NL</i>	2017
<b>Science Undergraduate Research Award (SURA)</b> <i>Memorial University, St. John’s, NL</i>	2013, 2014, 2015
<b>Dean’s List</b> <i>Memorial University, St. John’s, NL</i>	2013, 2014, 2015
<b>Queen Elizabeth II Graduate Scholarship in Science and Technology</b> , \$15,000 - Declined <i>University of Waterloo, Waterloo, ON</i>	2015
<b>The Harvey and Doris Murcell Scholarship</b> , \$1,000 <i>Memorial University, St. John’s, NL</i>	2014

## REFERENCES

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- Dr. Tim Burnley**, Acting Director Health Analytics, *Health PEI, Charlottetown, PE*  
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- Dr. Terry Murphy**, Campus Director, *College of the North Atlantic, Carbonear, NL*  
P: (709) 596-8911 @: terry.murphy@cna.nl.ca, terryjamesmurphy@gmail.com
- Mr. Daryl Pinksen**, Secondary Math/Science Teacher, *Prince of Wales Collegiate, St. John’s, NL*  
P: (709) 746-9956 @: dpinksen@gmail.com