

# Andrew M. Rose

Holland College Waterfront Campus ◦ 98 Water Street, Summerside PE, Canada

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## EDUCATION

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**Bachelor of Education** - Intermediate/Secondary (Mathematics & Science) 2019

Faculty of Education, *Memorial University*, St. John's, NL

**Master of Science** - Mathematics 2019

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, Joint Honours** - Applied Mathematics and Physics 2015

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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**Instructor/Learning Manager**, *Holland College, Summerside and Charlottetown, PE* Aug 2022 - Present

- Responsible for the delivery and development of post-secondary courses in mathematics and physics within Industrial Technology and Trades programs
- Work within a highly interdisciplinary team to meet student needs for academic success and professional preparation

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

- Developed 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**, *College of the North Atlantic, Carbonear, NL* Aug 2019 - Aug 2021

- Sole instructor for first year courses in Algebra and Trigonometry, Finite Mathematics, and Calculus within the College-University Transfer Program
- 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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**Certificate in Adult Education (Equivalent)**, *Prince Edward Island* 2024

- Granted equivalency to the Certificate in Adult Education (CAE) by Holland College

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

- Certified Post-Secondary Instructor in Newfoundland and Labrador.

**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 (Linear Algebra)

## INVITED LECTURES & CONFERENCES

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<b>“Constructing Static Black Hole-Soliton Spacetimes”</b> Masters Thesis Presentation <i>Memorial University</i>	Oct 11 2019
<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

## 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, L<sup>A</sup>T<sub>E</sub>X, Mathematica, Markdown, MATLAB, Python, R, SQL  
**Operating Systems:** Linux, Microsoft Windows, MacOS

## COMMITTEES, GROUPS, ORGANIZATIONS & VOLUNTEERING

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<b>Faculty Representative</b> , Campus Scholarship Committee <i>College of the North Atlantic</i> , Carbonear, NL	2019 - 2021
<b>Student Representative</b> , Faculty of Education Admissions Committee <i>Memorial University</i> , St. John’s, NL	2018 - 2019
<b>Dog Walker</b> , Animal Care & Services <i>SPCA St. John’s</i> , St. John’s, NL	2016 - 2017
<b>Student Representative</b> , Science Society <i>Memorial University</i> , St. John’s, NL	2014 - 2015
<b>Secretary</b> , Physics and Physical Oceanography Student Society <i>Memorial University</i> , St. John’s, NL	2014 - 2015

## AWARDS & HONOURS

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

## REFERENCES

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Available Upon Request