

Andrew M. Rose

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EDUCATION

Bachelor of Education

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

2019

Master of Science

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

2019

Thesis: Constructing Static Black-Soliton Spacetimes

Thesis Supervisor: Dr. Hari Kunduri

Bachelor of Science, Honours

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

2015

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 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

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^AT_EX, 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