

Igor Gribanov

117a Elizabeth Avenue
St. John's NL A1B1R6

ig1453@mun.ca
(709)771-6180

Work

MUN, Faculty of Engineering and Applied Science

Postdoctoral Fellow, 2020 - now

Project: Finite Element Modeling of Ice Fracture

Lavrentyev Institute of Hydrodynamics / Russian Academy of Sciences

Laboratory Technician, 2011 - 2012

Project: Fluid Flow Modeling using Lattice Boltzmann Methods

Teaching Assistance, Per-course Instruction

Introduction to Scientific Computing, 2022

One Student Success Centre, 2017 - 2019

Probability and Statistics, 2017 - 2019

Engineering Mathematics, 2016 - 2018

Advanced Calculus for Engineering, 2017

Arctic Offshore Engineering, 2016

**Award for Outstanding Teaching, 2019*

Education

Ph.D., Mechanical Engineering, 2020, MUN

M.A., Mathematics, 2014, Novosibirsk State University

Associate in Science (High Honors), 2011, Pima County Community College

B.A., Physics, 2002, Novosibirsk State University

Dissertation

“Numerical Investigation of Fracture of Polycrystalline Ice under Dynamic Loading”
Modeling of ice fracture using finite element method and cohesive zone techniques, with the goal of estimating ice strength and understanding the role of damage accumulation in stress distribution.

Languages

English, French, Spanish, Russian (native)

Programming Skills

C++, C#, CUDA, Mathematica; Qt, VTK, Eigen, TBB, OpenMP,
linear and quadratic solvers, various tools for scientific computing

Publications

[Google Scholar](#)