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Damien Rioux-Lavoie

Curriculum Vitae

Education

2014–2017 **Master of science (M.Sc.) Applied Mathematics**, *University of Montreal*.
Méthode SPH implicite d'ordre 2 appliquée à des fluides incompressibles munis d'une frontière libre.

2011-2014 **Bachelor of science (B.Sc.) Pure and Applied Mathematics**, *University of Montreal*.

Professional experiences

2013-2017 **Research assistant**, *University of Montreal*.
Supervised by Robert G. Owens.

2014-2016 **Coadministrator of the laboratories**, *Department of mathematics and statistics, University of Montreal*.

- Provide technical support to users of the computer network ;
- Maintain and update the web page of the department of mathematics and statistics ;
- Test new programs and interfaces ;
- Present seminars ;
- Perform the computer tasks assigned by the administrator.

2015 **Research assistant**, *CIRRELT*, Montréal.

2016-2017 **Teaching Assistant**, *University of Montreal*.

- MAT1410 : Calcul 2 - Autumn 2016 and Winter 2016 ;
- MAT1958 : Mathématiques pour chimistes - Winter 2016 ;
- MAT1681 : Mathématiques assistées par ordinateur - Winter 2017.

Selected talk

2017 **10th Annual Ottawa Mathematics Conference (OCM)**, *University of Ottawa*, Ottawa.
A penalty method applied to the fractional heat equation

Volunteer work

2017 Mentor for *Ladies Learning Code*, Montreal

Award

2009 Certificate of Distinction at the Canadian Open Mathematics Challenge.

Technical skills

Programming languages :	C, C++, C#, JavaScript, Python
APIs and other languages :	Webgl, OpenGL, GLSL, HTML, CSS, LaTeX
Tools and softwares :	Matlab, Mathematica, Maple, R, Git
Development environments :	Visual Studio, Shadertoy, Unreal Engine

Languages

French, English : read, spoken, written

Areas of interest

Research : Applied mathematics, ODE/PDE, numerical analysis, dynamical system, rendering and computational fluid dynamics.

Reference

Available on demand