

Guillaume Roy-Fortin

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Academic Positions

- Professor of Mathematics, teaching stream, École de technologie supérieure, Montréal, 2017–
- Ralph Boas Assistant Professor of Mathematics, Northwestern, Evanston, 2015–2017.

Education

- Ph.D. in Mathematics, Université de Montréal, Montréal, 2015.
- B.Sc. in Mathematics, Université de Montréal, Montréal, 2010.
- B.A. in Psychology, Université de Sherbrooke, Sherbrooke, 2004.
- DEC in Computer Science, Cégep de Ste-Foy, Ste-Foy, 2001.

Publications

- B. Georgiev, G. Roy-Fortin, *Polynomial upper bounds on Steklov nodal sets*. *J. Spectr. Theory* 9 (2019), 897–919. [arXiv:1704.04484](#)
- G. Roy-Fortin, *Average L^q growth and nodal sets of eigenfunctions of the Laplacian on surfaces*, 2015. [arXiv:1510.02376](#)
- G. Roy-Fortin, *Nodal sets and growth exponents of Laplace eigenfunctions on surfaces*, *Analysis & PDE* 8-1 (2015), 223–255.
- G. Poliquin, G. Roy-Fortin, *Wolf-Keller Theorem for Neumann Eigenvalues*. *Ann. Sci. Math. Quebec* 36 (2012), 169–178. [arXiv:1007.4771](#)

Awards

- Excellence in Teaching Award, Northwestern, 2017.
- Carl Herz Prize, Institut des Sciences Mathématiques, 2015.
- Dean's list (2x, PhD, B.Sc), Université de Montréal, 2010, 2015.
- Excellence in Teaching Award (2x), Université de Montréal, 2013, 2015.
- Serge Bissonnette Prize, Université de Montréal, 2014.

Grants and Scholarships

- FRQNT Mobility Scholarship, Hebrew University Jerusalem, 2015. *(7000\$)*
- NSERC Alexander Graham-Bell CGS-D3 Scholarship, Montreal, 2012-2015. *(105000\$)*
- FRQNT-D3 Scholarship (declined), 2012. *(60000\$)*
- NSERC Alexander Graham-Bell CGS-M Scholarship, Montreal, 2011. *(20000\$)*
- FESP/Université de Montréal Direct access to Ph.D. grant, Montreal, 2010-2012. *(30000\$)*
- MELS/Quebec Government Mobility Grant, Aarhus Universitet, Aarhus, 2009-2010. *(8000\$)*
- Institut des Sciences Mathématiques Research Grant, Montreal, 2009. *(2000\$)*
- MELS/Quebec Government Mobility Grant, Université Louis-Pasteur, Strasbourg, 2002-2003. *(8000\$)*

Organization

- 69e congrès annuel de l'Association mathématique du Québec, ÉTS, 2025.

Conferences and Workshops

- Dirichlet-to-Neumann Maps: Spectral Theory, Inverse Problems and Applications, CMO Oaxaca. 2016.
- AMS Special Session on Geometric PDE, Loyola University, Chicago, 2015.
- Workshop on Spectral Theory of Laplace and Schrödinger Operators, BIRS, Banff, 2013.
- Workshop on Eigenvalues of Laplace Operator, Université de Neuchâtel, 2013.
- EWS-IAMP Summer School on Quantum Chaos, Erwin Schrödinger Institute, Vienna, 2012.
- CRM - Géométrie des valeurs propres et des fonctions propres, Université de Montréal, 2012.
- LMS-EPSRC Short Course on Spectral Analysis, University College, London, 2011.
- NSF-CBMS Conference on Global Harmonic Analysis, University of Kentucky, 2011.

Talks

- Summer Northwestern Analysis Program, Mini course, Summer 2017.
- Geometric Analysis Seminar (3x), Northwestern University, 2015-2017.
- Montreal Analysis Seminar (4x), Université de Montréal, 2011-2015.
- Harmonic Analysis and Differential Equations Seminar, University of Illinois UC, 2015.
- AMS Special Session on Geometric PDE, Loyola University, Chicago, 2015.
- Colloque de l'Institut des Sciences Mathématiques, Plenary speaker, HEC, Montreal, 2015.
- PDE and Applied Math Seminar, Technion, Haifa, Israel, 2015.
- Analysis Seminar, Northwestern University, 2014.
- Geometry and Topology Seminar, Dartmouth College, 2014.
- Séminaire d'analyse, Université Laval, 2014.
- Séminaire des étudiants gradués (4x), Université de Montréal 2011-2015.
- Workshop on Eigenvalues of Laplace Operator, Université de Neuchâtel, 2013.

Employment in Computer Science

- Programmer (C/C++/Java/SQL), Oz Communications / Nokia, Montreal, 2006-2008.
- Programmer (C++, Java), Gameloft, Montreal, 2005.

Languages

- French: Native.
- English: Proficient.
- Spanish, German, Danish: Intermediate.
- Italian, Russian: Beginner.