

Ophélie ROUBY

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CURRICULUM VITAE

Professional experience

- 2016-2017* **Teaching assistant in mathematics** for third year undergraduate students at the ENSAI (école nationale de la statistique et de l'analyse de l'information).
- 2015-2016* — **Teaching assistant in mathematics** for first year undergraduate students and for students preparing the french *Agrégation de mathématiques* at the University of Rennes 1.
- Participation to **Filles et maths : une équation lumineuse** in Rennes (journey devoted to the discover of jobs using mathematics for secondary school girls).
 - Participation in the Rennes **science fair**.
- 2014-2015* **Teaching assistant in mathematics** for first year undergraduate students and for students preparing the french *Agrégation de mathématiques* at the University of Rennes 1.
- 2013-2014* — **Teaching assistant in mathematics** for first and second year undergraduate students and for students preparing the french *Agrégation de mathématiques* at the University of Rennes 1.
- Participation in the Rennes **science fair**.
 - **Supervision of a group of secondary school students** for three days as a part of a popularisation activity at ENS Rennes.
- 2012-2013* — **Research internship** (2 months) at the Institut de mathématiques de Jussieu (Paris) on *Berezin-Toeplitz Operators* under Laurent Charles.
- **Oral examiner in mathematics** for preparatory classes at lycée Chateaubriand (Rennes).
- 2011-2012* **Oral examiner in mathematics** at the University of Rennes 1.
- 2010-2011* — **Research internship** (9 weeks) at the Oxford Mathematical Institute (United Kingdom) on *Random walks on discrete groups after Mikhail Gromov* under Cornelia Drutu.
- **Tutor in mathematics** for high school and preparatory students.
- 2009-2010* — **Research internship** (6 weeks) at the Laboratoire de Probabilités et Modèles Aléatoires (Paris) on *Ehrenfest Model* under Raphael Lefevre.
- **Tutor in mathematics** for high school students.

Education and training

- Since 01/2017* **Post-doctoral position** of the group of mathematical physics at the University of Lisbon.
- 29/11/2016* **PhD in mathematics and applications** of the University of Rennes 1 with mention "Très honorable".
- Dissertation topic : Bohr-Sommerfeld quantization conditions for non-selfadjoint semi-classical operators.
 - PhD advisor : San Vũ Ngọc.
 - Referees : Michael Hitrik and Thierry Ramond.
 - Jury members : Clotilde Fermanian-Kammerer, Laurent Charles, Karel Pravda-Starov and Johannes Sjöstrand.
- 2013-2016* **PhD student** at the Institut de Recherche Mathématique de Rennes (IRMAR).
- 2012-2013* — **Second year of masters degree in mathematics** at the University of Rennes 1.
- **Lebesgue master scholarship** for student in second year of masters degree (awards to students in mathematics with an excellent academic background).
- 2012* **Agrégation de mathématiques** (competitive exam used to recruit teachers).

- 2011-2012 **Preparatory classes to the french agrégation de mathématiques** at ENS Cachan, Brittany extension and the University of Rennes 1.
- 2010-2011 **First year of masters degree in mathematics** at the University of Rennes 1 and ENS Cachan, Brittany extension.
- 2009-2010 **Bachelors degree in mathematics** at the University of Rennes 1 and ENS Cachan, Brittany extension.
- 2009 Beginning of **magistère** (advanced degree) at **École Normale Supérieure de Cachan** Brittany extension (ENS Cachan Bretagne), department of mathematics.
- 2007-2009 **French preparatory classes** (Classes Préparatoires aux Grandes Écoles) at lycée Camille Guérin (Poitiers).
- 2007 **Scientific Baccalauréat** (french high school diploma), option mathematics.

Preprints / Publications

- 2016 **Berezin-Toeplitz quantization and complex Weyl quantization of the torus** (work in progress).
- 2015 **Bohr-Sommerfeld quantization conditions for non-selfadjoint perturbations of selfadjoint operators in dimension one** (published in Int. Math. Res. Notices doi : 10.1093/imrn/rnw309, hal-01226209 ; archiv-1511.06237).

Administrative charges

- 2014-2016 — **Member of the scientific advisory board of the Henri Lebesgue center** in Rennes.
- **Member of the advisory board of the doctoral school Matisse** in Rennes.
- **Member of the organising committee** of the young researchers seminar in analysis of Rennes.
- 2015 **Member of the organising committee** of the Young French Applied Mathematicians Meeting.

Talks

- 2016-2017 — Talk at the **analysis seminar** of Strasbourg (in June 2017).
- Talk at the **analysis seminar** of Nantes (in March 2017).
- Talk at the **workshop of the research group Quantum dynamics** in Toulon (in February 2017).
- 2015-2016 — Talk at the **real analysis seminar** of Toulouse on *Bohr-Sommerfeld quantization conditions for non-selfadjoint perturbations of selfadjoint operators in dimension one*.
- Talk at the **working group** of Orsay on spectral problem and mathematical physics on *Bohr-Sommerfeld quantization conditions for non-selfadjoint perturbations of selfadjoint operators in dimension one*.
- Talk at the **mathematical physics seminar** of Lille on *Bohr-Sommerfeld quantization conditions for non-selfadjoint perturbations of selfadjoint operators in dimension one*.
- Talk at the **young researchers seminar in analysis** of Rennes on *Bohr-Sommerfeld quantization conditions for non-selfadjoint perturbations of selfadjoint operators in 1D*.
- 2014-2015 — Talk at the **partial differential equations seminar** of Rennes on *Bohr-Sommerfeld quantization conditions for non-selfadjoint perturbations of selfadjoint operators in dimension one*.
- Talk at the **young researchers seminar in geometry** of Rennes on *Berezin-Toeplitz operators on the torus*.
- 2013-2014 — Talks at the **working group** of Rennes on *Classical analytical symbols and pseudo-differential operators* and on *Contour integrals and Fourier transform*.
- Talk at the **young researchers seminar in geometry** of Rennes on *Bohr-Sommerfeld quantization conditions*.

- Talk at the **young researchers seminar in analysis** of Rennes on *Spectrum of almost selfadjoint operators*.

Conferences attendance

- 2016-2017* — Conference : Mathematical aspects of the physics with non-self-adjoint operators in Marseille (in June 2017, France).
- Workshop of the research group Quantum Dynamics in Toulon (in February 2017, France).
 - Conference : Symposium on advances in semi-classical methods in mathematics and physics in Groningen (Netherlands).
- 2015-2016* — Workshop of the research group Quantum dynamic in Grenoble (France).
- Workshop of the research group Nosevol (Non-selfadjoint operators, semiclassical analysis and evolution equations) in Marseille (France).
 - Conference on topology, geometry and dynamics in honour of François Lalonde in Montreal (Canada).
- 2014-2015* — Workshop : Magnetic fields and semi-classical analysis in Rennes (France).
- Meeting : Young French Applied Mathematicians Meeting in Saint-Brévin (France).
 - Meeting : Mathematical physics in Nantes (France).
- 2013-2014* — Conference : Spectral theory and mathematical physics in Madrid (Spain).
- Workshop of the research group Nosevol (Non-selfadjoint operators, semiclassical analysis and evolution equations) in Rennes (France).
 - Workshop of the research group Quantum dynamic in Roscoff (France).
 - Conference : Beyond Toric Integrability in Lausanne (Switzerland).
 - Conference : Microlocal analysis and spectral theory in honour of Johannes Sjöstrand in Marseille (France).
 - Summer school : Integrable systems and semiclassical analysis in Lausanne (Switzerland).

Divers

Sports : dance, tap shoes.

Languages :

- French (native).
- English (spoken and written) **TOEIC** : 895/990 (2012).
- German (basic).

Computer skills :

- Basic knowledge of C++.
- Use of Scilab, Mathematica and Maple.
- C2i2e (french certificate pertaining to the use of information and communication technologies in the classroom) in 2012.