

Joyce Assaad

Curriculum Vitae

Université Bordeaux 1
Institut de Mathématiques (IMB)
CNRS UMR 5251. Analysis group
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Birthdate: January 2, 1985.

Citizenship: Lebanese.

Research interests: Harmonic Analysis in particular Riesz transform, Schrödinger operator, singular integral operator, Gaussian estimate, off-diagonal estimate, Riemannian manifold, Muckenhoupt class, reverse Hölder class.

Curent position: "ATER" (part time teaching and research position) at the University of Bordeaux, Department of Pure Mathematics.

- I am qualified to access to the Assistant/Associate Professor positions in France. National qualification number: 11225215382

Education

- Fall 2010, Ph.D., Pure Mathematics, University of Bordeaux.
Mention "Très honorable".
Thesis title: Riesz transforms associated to Schrödinger operators with negative potentials.
Advisor: El Maati Ouhabaz.
Ph.D. Thesis Committee: P. Auscher, R. Deville, P. C. Kunstmann, G. Mauceri, E. M. Ouhabaz, S. Petermichl.
- 2006-2007, Master 2, Applied Mathematics, University of Bordeaux. Rank:2/15.
- 2002-2006, Master 1, Pure Mathematics, Lebanese University. Rank:4/78.

Fellowship

- 2007-2010 Ph.D. Grant from the French ministry of education.

Publications

- Riesz transforms associated to Schrödinger operators with negative potentials. PhD thesis, University of Bordeaux, 2010, 93 pages.
- Riesz transforms associated to Schrödinger operators with negative potentials. *Publ. Mat.* **55** no 1, (2011), 123-150.
- Riesz transforms of Schrödinger operators on manifolds. (with E.M. Ouhabaz). 32 pages. Accepted for publication in Journal of Geometric Analysis.
- Riesz transforms, fractional power operators and functional calculus of Schrödinger operators on weighted L^p spaces. To be submitted soon.

Conferences

- Harmonic analysis workshop, January 2011, Orsay - France.
- GDR AFHA 2009: Functional and harmonic analysis and applications, Besançon - France.
- The 6th Euro-Maghreb workshop on semigroups, evolution equations and applications, Novembre 2008, CIRM Luminy - France.
- GDR AFHA 2008: Functional and harmonic analysis and applications, Orleans - France.

Invited seminar talks

- Analysis seminar, Bordeaux, November 2010.
- Analysis seminar of the University of Lyon - France, March 2010.
- LAMBDA seminar. Seminar of the math Ph.D. student of Bordeaux - March 2010, Bordeaux - France.
- Analysis work group, Bordeaux, April 2009, Bordeaux - France.

Teaching

- Fall 2010, part time teaching position, University of Bordeaux.
 - (1) Mathematics for physicists, Lectures and problem sessions (Analysis, 2nd year)
 - (2) Mathematics for physicists, Lectures and problem sessions. (Linear algebra, 2nd year).

- 2007 - 2010 : Part time teaching position within PhD program : Mathematics for physicists: Lectures and problem sessions (Analysis, 2nd year)
- 2007 - 2010 : teaching training at the CIES (Centre for teaching professions).
- 2002 - 2006 : private lessons for high school students.

Services - Administration - Organisation

- 2007-2010 member of the PhD students' association LAMBDA, 2008-2009 its treasurer.
- Representative of the PhD students while the 2009 AERES (national research agency) evaluation of the math department.