

# SARAH DIJOLS

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## EDUCATION

*From September 2014* PhD Thesis at the University of Aix-Marseille, under the supervision of Volker Heiermann.

*2013-2014*

Second year of Master, Fundamental Mathematics, Algebra and Geometry, UPMC, with honours

*Master Thesis title* : « L functions and Theta series » under the supervision of Jens Funke.

*2011-2013*

Master Economics and Public Policy, PhD track, Sciences Po Paris and Ecole Polytechnique

*Master Thesis title* : « Prices' dynamics : could covariances highlight the financialization of commodities? » under the supervision of Nicolas Coeurdacier. First year Master in Fundamental Mathematics, Strasbourg University and UPMC

*2010-2011*

Second year of Magistère in Mathematics, Strasbourg University

*2009-2010*

Visiting student at the University of British Columbia, Vancouver, Canada

Bachelor at Sciences Po Paris

Bachelor in Mathematics, Pierre et Marie Curie University with highest honours

*2007-2009*

Double degree Sciences Po Paris and Pierre et Marie Curie University

*2007*

French Scientific Baccalaureat with highest honours ; Lycée Michelet, Montauban

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## RESEARCH

Subjects : Representations of reductive groups, automorphic forms.

*Preprint* : Symplectic models for unitary groups, joint work with Dipendra Prasad, November 2016, <https://arxiv.org/abs/1611.01621>

*Work in progress* : The generalized injectivity conjecture.

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## TEACHING

Tutorial L1 (first year) Mathematics at UPMC, « CAP en fac » program, Octobre 2013-Juin 2014

L3 SPI parcours SDE, Mathématiques pour l'ingénieur, 27h (2014-2015 et 2015-2016), 36h (2016-2017)

L1 Analyse 1, St Charles, 20h (2014-2015)

L3, Algèbre et Géométrie, 10h (2014-2015), 36h (2015-2016)  
L1 Outils statistiques en SNTE, 28h (2016-2017)

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## CONFERENCES, AND TALKS

### *Attended conferences*

Automorphic forms, Shimura varieties, Galois representations and L-functions Workshop, 1-5 December 2014, MSRI, Berkeley

Summer School on Reductive Groups, Franken-Akademie Schloß Schney, 27/07/2015-7/08/2015

Relative Trace Formula, Periods, L-Functions and Harmonic Analysis, 16-27 May 2016

Varanasi, TIMC AMS conference, 14-17 December 2017

Class field theory course, IISER Trivandrum, 22-25 December 2017

Workshop on Representation Theory of Reductive Groups Over Local Fields, Weizmann Institute of Science, 4-16 June 2017

### *Invitation*

Tata Institute of Fundamental Research, 15th of December-15th of January 2017

### *Talks*

Seminar on Trace formulae organized by Farrell Brumley at Jussieu :

— December 2015, Le côté spectral de la Formule des Traces pour GL<sub>2</sub>

— March 2016, Formule des traces relative et un résultat de Waldspurger

Formule des traces relative appliquée à la démonstration d'un résultat de Waldspurger  
RGR Seminar, I2M Marseille, March 2016

Symplectic Models for unitary groups, Varanasi, December 2016

— Seminar Algebra and Geometry, Versailles, May 2017

— Seminar Poitiers, May 2017

— Workshop on Representation Theory of Reductive Groups Over Local Fields, Weizmann Institute of Science, June 2017

Young seminars :

Introduction à la théorie des représentations de groupes réductifs : représentations distinguées et modèles :

— Grenoble, February 2017

— Paris 7, May 2017

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## ADDITIONAL ACTIVITIES

### 0.1 Popularization

Hippocampe program Spring 2015 (a one week introduction to mathematical research for High School students) ; participation in Piday Mucem in 2015 and « Fête de la Science » ; Maths games with High School students at CIRM library.

Participation in the PEPS-Egalité program (correspondence de Langlands) organized by Anne-Marie Aubert in April 2015. Poster presentation for a public of High School students.

Instructor in the workshop Math C2+ organized by the Polytechnique School to encourage High School female students from Aix-Marseille area to enroll in Sciences Studies.

## 0.2 Service

PhD students representative at the AMU Mathematics-Computer Science Doctoral School.

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### PROFESSIONAL EXPERIENCE

*July 2014* Counter advisor, Banque Populaire

*September-May 2013-2014* Teaching assistant for first year undergraduates in Mathematics, at the University Pierre et Marie Curie.

*April-August 2012* Internship at Centre d'Analyse Strategique (CAS) : Programming of a micro-simulation software for the socio-fiscal French system : (<http://www.openfisca.fr/>)

*July 2011* « Magistere » Internship at Neuromathcomp, INRIA.

*Summer 2010* Nurse assistant. Psychiatry Department, Montauban Hospital.

*Summer 2009* Internship at the Physics-Chemistry Lab : LCHMR, University Pierre et Marie Curie.

*July-August 2009* Help desk assistant, Manufacturers Department, AXA Assistance.

*August 2008* International volunteering on a environmental project, association SEEDS ICELAND.

*July 2008* Employee in a supermarket, Intermarche Lagos, Portugal.

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### EXTRACURRICULAR

#### Languages

French : Mother tongue

English : Fluent

Spanish : Moderate

#### IT Skills (to be refreshed)

Intermediate : Stata, R, GNU PLOT, OpenOffice, Excel

Advanced : ~~TEX~~, PYTHON

#### Personal interests

Sports : Climbing, Mountaineering and Running

Mathematics, Literature, Theatre, Duduk

Member of the Association Genepi which militates for « opening up » prisons. I was organizing cultural workshops for prisoners twice a month from January 2016.