

# Curriculum Vitae

## Dimitrios Chatzakos

### Personal Details

Date of birth: May 30th, 1988

Place of birth: Athens, Greece

Citizenship: Greek

### Contact Information

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### Research Interests

Automorphic forms, Spectral theory, Analytic number theory

### Research positions

10/2017 – now CEMPI, Lille and Université de Lille 1 Sciences et Technologies

04/2017 – 07/2017 Department of Mathematics, King's College London

10/2016 – 03/2017 School of Mathematics, University of Bristol

### Education

09/2012 – 09/2016 PhD Mathematics, University College of London, UK  
*Dissertation advisor:* Yiannis Petridis  
*PhD Thesis:* Lattice point problems in the hyperbolic plane.

10/2010 – 09/2012 MSc Mathematics (with distinction), University of Athens, Greece  
*Thesis advisor:* Aristides Kontogeorgis  
*Thesis:* Modular forms and Elliptic curves.

09/2006 – 10/2010 BSc Mathematics (with distinction), University of Athens, Greece

## List of publications

1. *The hyperbolic lattice point problem in conjugacy classes*. (with Y. Petridis), Forum Math. 28 (2016), no. 5, 981–1003. (arXiv:1504.01307)
2.  *$\Omega$ -results for the hyperbolic lattice point problem*. Proceedings of the AMS, vol. 145 (2017), no. 4, 1421–1437. (arXiv:1512.04137)
3. *Mean-value and  $\Omega$ -results for the hyperbolic lattice point problem in conjugacy classes*. (submitted for publication, arXiv:1610.01462)

## Honours and Awards

1. LMS 150th Anniversary Postdoctoral Mobility Grants 2016 – 2017 (Six months visit to University of Bristol)
2. Best talk Award, LMS Graduate Meeting, November 2015
3. Davenport Prize in Pure Mathematics, UCL, 2013
4. EPSRC DTA Scholarship, 2012 – 2016
5. Scholarship of Lilian Voudouri Foundation, 2011 – 12
6. International Mathematics Competition 2010, Third Prize
7. Southern Eastern Mathematical Olympiad for University Students 2008, Bronze Medal

## Teaching experience

1. University College of London:  
Problem solving seminar, Preparation Seminar for the SEEMOUS 2016 and IMC 2016  
Math 3703 Prime numbers and their distribution (Problem Class), First term 2015–16  
Math 3703 Prime numbers and their distribution (Problem Class), First term 2014–15
2. University of Athens:  
Math 201 Calculus 2, Teaching assistance, Winter term 2011–12  
Math 101 Calculus 1, Teaching assistance, Winter term 2010–11

## Marking experience

1. University College of London:  
Math 1102 Calculus 2, Second term 2015–16  
Math 1102 Calculus 2, Second term 2014–15  
Math 2101 Complex Analysis, First term 2014–15  
Math 3103 Functional Analysis, Second term 2013–14  
Math 3101 Measure Theory, First term 2013–14

## Conference and Workshop talks

1. “*Lattice counting problems in the hyperbolic plane*”, Workshop on Spectral Theory, Automorphic Forms and Arithmetic, Copenhagen, 14th – 18th November 2016

2. “*Automorphic forms for  $SL(2, R)$  and lattice counting problems*”, 2nd Nisyros Conference on automorphic representations and related topics, Nisyros, 13th – 18th June 2016
3. “*Harmonic analysis in the hyperbolic plane and lattice counting in conjugacy classes*”, 15th Panhellenic Conference of Mathematical Analysis, University of Crete, 27th – 29th May, 2016
4. “*The Gauss circle problem in the hyperbolic plane*”, Graduate Student Meeting of London Mathematical Society, London, 13th November 2015 (awarded as the best talk of the meeting)
5. “*Spectral theory in hyperbolic spaces and counting in discrete subgroups of  $SL(2, R)$* ”, Workshop on Analysis, Athens, 6th – 10th July 2015
6. “*Hyperbolic lattice point problems*”, Taught Course Centre Event Day in Number Theory, Imperial College London, 13th April 2015
7. “*The hyperbolic lattice point problem in conjugacy classes*”, Building Bridges: 2nd EU/US Summer School + Workshop on Automorphic Forms and Related Topics, 30th June – 11th July 2014

### Seminar talks

1. “*The Lindelöf hypothesis*”, ‘My favourite conjecture’ number theory study group, King’s College London, 14th June 2017
2. “*The analytic large sieve*”, Study group on ‘Sieve theory’, King’s College London, 24th May 2017
3. “*Hyperbolic lattice point counting in conjugacy classes*”, Oberseminar Algebra, Ulm Universität, 10th November 2016
4. “*Lattice counting problems in the hyperbolic plane*”, AG-Seminar Algebra, TU Darmstadt, 8th November 2016
5. “*Hyperbolic lattice point counting in conjugacy classes*”, Geometry and Algebra, Geometry and Analysis seminar, Department of Mathematics, Utrecht University, 22nd March, 2016
6. “*Hyperbolic lattice point counting in conjugacy classes*”, Algebra, geometry and number theory seminar, Mathematical Institute, Universiteit Leiden, 21st March, 2016
7. “*Lattice point problems in the hyperbolic plane*”, Analytic Number Theory Seminar, UCL, 25th November 2015
8. “*What kind of arithmetic objects live on the hyperbolic plane? (or, how to explain Prime Number Theorem to a geometer)*”, Postgraduate Seminar, University College of London, 4th December 2014
9. “*The hyperbolic lattice point problem in conjugacy classes*”, Analysis Seminar, University of Copenhagen, 28th March 2014
10. “*From Diophantine equations to Hyperbolic geometry*”, Postgraduate Seminar, University College of London, 6th February 2014

11. “*The hyperbolic lattice point problem in conjugacy classes*”, Postgraduate Seminar, University College of London, 17th October 2013
12. “*Sums of Kloosterman sums*”, Number Theory Seminar, University of Athens, 18th December 2012

### **Conferences, Workshops and Summer schools attended**

1. London-Paris Number Theory Seminar, 22nd Meeting, 5th – 6th June 2017
2. Random Waves in London Workshop, King’s College London, 3rd – 5th May 2016
3. *L*-functions and Automorphic Forms, Heidelberg, 22nd – 26th February 2016
4. London-Paris Number Theory Seminar, 19th Meeting, 8th – 9th November 2015
5. 1st Nisyros Conference on Automorphic Representations and Related Topics, Nisyros, 12th – 17th July 2015
6. London-Paris Number Theory Seminar, 18th meeting, 4th – 5th June 2015
7. Analytic aspects of number theory, ETH Zürich, 18th – 22nd May 2015
8. Taught Course Centre Event Day in Number Theory, Imperial College London, 13th April 2015
9. The Joint British Mathematical Colloquium and British Applied Mathematics Colloquium, Cambridge, 30th March – 2nd April 2015
10. Analytic Number Theory Workshop, Oxford, 29th September – 3rd October 2014
11. Bounded Gaps between Primes, LMS–CMI Research School, Oxford, 22nd – 26th September 2014
12. Building Bridges: 2nd EU/US Summer School + Workshop on Automorphic Forms and Related Topics, Bristol, 30th June – 11th July 2014
13. London-Paris Number Theory Seminar, 16th meeting, 9th June 2014
14. British Mathematical Colloquium, London, 4th – 9th April 2014
15. London-Paris Number Theory Seminar, 14th meeting, London, 3rd – 4th June 2013
16. Taught Course Centre Graduate Event Day on Number Theory, Bristol, 21st May 2013

### **Languages**

English (fluent), Greek (native), French (poor)