

Eirini Chavli

Curriculum Vitae

Institut für Algebra und Zahlentheorie,
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Personal Information

BIRTH 23/09/1985 (Athens)
NATIONALITY Greek
FAMILY Married

Education

2012–2016 **Ph.D. in Pure Mathematics**, *Université Paris Diderot*.
Title: *The Broué-Malle-Rouquier conjecture for the exceptional groups of rank 2*
Supervisor: Ivan Marin
Examiners: P. Etingof, L. Funar
Jury: F. Digne, L. Funar, N. Jacon, G. Malle, I. Marin, G. Pfeiffer
2011–2012 **MSc (Master 2) in Mathématiques Fondamentales**, *Université Paris Diderot*.
2007–2010 **MSc in Pure Mathematics**, *University of Athens*.
2003–2007 **Bachelor in Mathematics**, *University of Athens*.
2000–2003 **High school diploma**, *High school of Glyka Nera, Athens*.

Professional Experience

2016–today **Postdoctoral researcher and teaching assistant**, *Universität Stuttgart*.
2015–2016 **Temporary lecturer (Attaché Temporaire d’Enseignement et de Recherche)**, *Université de Picardie Jules Verne*.
2012–2015 **Teaching assistant**, *Université Paris Diderot*.
2007–2010 **Teaching assistant**, *University of Athens*.

Teaching Experience

2018–2019 **Universität Stuttgart**.
“Lineare Algebra und Analytische Geometrie I”, 2nd year (Maths)
2017–2018 **Universität Stuttgart**.
“Algebra und Zahlentheorie für das Lehramt”, 2nd year (Maths)
“Algebra”, 2nd year (Maths)
2016–2017 **Universität Stuttgart**.
“Höhere Mathematik 3”, 2nd year (Engineering)
“Höhere Mathematik 3”, 1st year (Engineering)
2015–2016 **Université de Picardie Jules Verne**.
“Théorie de Galois”, Master 1 (Maths)
“Algèbre linéaire II”, 2nd year (Maths)
“Topologie”, 2nd year (Maths)
“Algèbre linéaire I”, 1st year (Informatics, Maths)
“Outils Mathématiques”, 1st year (Informatics)
“Probabilités et Statistique”, 1st year (Biology)
2012–2015 **Université Paris Diderot**.
“Algèbre et Analyse élémentaires II”, 1st year (Physics). I was teaching the same course for 3 years
2007–2010 **University of Athens**.
“Basic Algebra”, 2nd year (Maths). I was teaching the same course for 3 years
2007 **1st experimental High school in Athens (Gennadios)**.
Trainee-ship on Algebra

2004–2010 **Private Tutor on Mathematics.**

High School students from public and private schools (International Baccalaureate, American College of Greece, Greek-German School)

Research Activities

Research interests

Hecke algebras, braid groups, finite Coxeter groups, Complex reflection groups, decomposition matrices, representation theory.

Ph.D. thesis

The BMR freeness conjecture for the exceptional groups of rank 2, Université Paris Diderot, Paris 7, 2016 (available in arXiv: 1608.00834).

Publications

1. *Universal deformations of the finite quotients of the braid group on 3 strands*, Journal of Algebra 459 (2016), 238-271.
2. *The BMR freeness conjecture for the first two families of the exceptional groups of rank 2*, Comptes Rendus Mathématique, Académie des Sciences, 355, Ser. 1 (2017), 1-4.
3. *The BMR freeness conjecture for the tetrahedral and octahedral family*, Communications in Algebra 46, no. 1 (2018), 386-464.
4. *Decomposition matrices for the generic Hecke algebras on 3 strands in characteristic zero* (2017) (available in arXiv: 1801.00200).
5. *The BMM symmetrising trace conjecture for groups G_4, G_5, G_6, G_7, G_8* (2018)
Common work with Christina Boura, Maria Chlouveraki, and Konstantinos Karvounis.
(available in arXiv : 1802.07482).
6. *The BMM symmetrising trace conjecture for the exceptional 2-reflection groups of rank 2* (2018)
Common work with Christina Boura and Maria Chlouveraki.
(available in arXiv : 1810.13370).

Talks in International Conferences

- 17-9-2018 **SWAN 1**, Universität Stuttgart.
Representation theory for the Hecke algebras on 3 strands
- 21-6-2018 **Workshop on Algebraic Combinatorics**, Université de Reims Champagne-Ardenne.
Modular representation theory for the generic Hecke algebras on 3 strands
- 10-11-2017 **Darstellungstheoretage**, Katholische Universität Eichstätt–Ingolstadt.
Decomposition matrices for the generic Hecke algebras on 3 strands
- 15-6-2017 **Women in Geometry and Topology**, Universität Zürich.
Complex braid groups and generic Hecke algebras
- 3-2-2017 **Colloque Tournant 2017 du GDR TLAG**, Université de Picardie Jules Verne.
Une classification des représentations irréductibles de B_3
- 29-8-2016 **Algebraic Combinatorics in Representation Theory**, CIRM, Luminy.
The BMR freeness conjecture
- 5-7-2016 **Representation theory in Samos**, University of the Aegean Sea.
The irreducible representations of B_3 of small dimension
- 24-2-2016 **Winterbraids VI**, Université de Lille I.
The irreducible representations of B_3 of dimension at most 5
- 27-3-2015 **Rencontre de l'ANR ACORT à Paris**, Université de Reims Champagne-Ardenne.
The irreducible representations of B_3
- 5-12-2014 **Nikolaus Conference**, Lehrstuhl D, Aachen.
The BMR Freeness Conjecture: the Tetrahedral and Octahedral Families
- 17-6-2014 **Summer school**, Institut d'Études Scientifiques de Cargèse.
Affine Nil–Hecke algebras

- 9-6-2014 **Young Algebraists' conference**, EPFL.
The BMR conjecture for the Hecke algebra of the finite quotients of the braid group on n strands
- 9-5-2014 **ARTY 2**, Universität Emmy Noether Zentrum, Nuremberg.
The BMR conjecture for the Hecke algebra of the finite quotients of the braid group on n strands

Talks in Seminars

- 13-9-2018 **Séminaire de théorie des groupes**, Université de Picardie Jules Verne.
Les matrices de décomposition des algèbres de Hecke génériques à 3 brins
- 22-2-2018 **Groupe de travail d'Algèbre**, Université Littoral Côte d'Opale.
Sur les conjectures de BMR
- 23-1-2018 **Séminaire d'Algèbre-Géométrie**, Université de Caen.
Sur les conjectures de BMR pour les algèbres de Hecke génériques
- 27-9-2017 **Oberseminar**, Universität Stuttgart.
Representation theory for the finite quotients of the braid group B_3
- 30-5-2017 **Séminaire d'Algèbre-Géométrie**, Université de Versailles - St Quentin.
Les matrices de décomposition des algèbres de Hecke génériques à 3 brins
- 16-8-2016 **Oberseminar**, Universität Stuttgart.
The BMR freeness conjecture: recent work and open cases
- 4-5-2016 **Séminaire de théorie des groupes**, Université de Picardie Jules Verne.
La conjecture de BMR pour les groupes exceptionnels de rang 2
- 21-4-2016 **Seminaire des thésards**, Université de Picardie Jules Verne.
On generic Hecke algebras
- 19-5-2015 **Séminaire d'Algèbre-Géométrie**, Université de Versailles - St Quentin.
The Hecke algebras of the exceptional groups of rank 2
- 5-2-2015 **Seminar Gruppen und Darstellungen**, Technische Universität Kaiserslautern.
The BMR freeness conjecture: the exceptional groups of rank 2
- 26-3-2014 **Seminaire des thésards "Bourbakettes"**, Université Paris Diderot.
Groupe de tresses
- 12-3-2014 **Séminaire de théorie des groupes**, Université de Picardie Jules Verne.
Deformations of the finite quotients of the braid group on 3 strands
- 25-2-2010 **Group theory seminar**, EPFL.
Representation Theory and Young tableaux

Local Talks

- Weekly working group**, Universität Stuttgart.
- 6-2-2018 *Representation type of Schur Algebras*
- 27-6-2017 *A talk based on Auslander's Philadelphia Notes*
- 10-1-2017 *On Derivators*
- Groupe de travail sur les groupes de tresses**, Université de Picardie Jules Verne.
- 10-5-2016 *Sur la conjecture de BMR*
- 13-10-2015 *Une application via éléments de Schur aux représentations de basse dimension de B_3 , Partie II*
- 6-10-2015 *Une application via éléments de Schur aux représentations de basse dimension de B_3 , Partie I*
- 29-9-2015 *La conjecture de liberté pour les quotients finis de B_3*
- Groupe de travail de thésards**, Université de Picardie Jules Verne.
- 3-4-2014 *Revêtements, Partie II*
- 17-3-2014 *Revêtements, Partie I*
- 20-2-2014 *La méthode de Van-Kampen*

Attended conferences

- Jul 2018 **Algebraic Representation Theory: a workshop in honor of Richard Dipper on the occasion of his retirement**, Universität Stuttgart.

- Jun 2018 **Groupes d'Artin et algèbres de Hecke**, *Université de Picardie Jules Verne*.
- Jun 2018 **Complex Reflection Groups and their Braid Groups**, *Université de Caen*.
- May 2018 **GABY 2018**, *Università Degli Studi di Milano–Bicocca*.
- Feb 2017 **Winterbraids VII**, *Université de Caen*.
- Dec 2016 **Nikolaus Conference**, *Lehrstuhl D, Aachen*.
- Sep 2016 **Finite Chevalley groups, reflection groups and braid groups**, *EPFL*.
- Jun 2016 **Journée mathématique du LAMFA**, *Université de Picardie Jules Verne*.
- May 2016 **Rencontre de l'ANR ACORT à Amiens**, *Université de Reims Champagne-Ardenne*.
- Mar 2016 **Journées d'algèbre**, *Université de Caen*.
 - Jul 2015 **Applied Representation Theory**, *Université de Picardie Jules Verne*.
- Jun 2015 **Journée mathématique du LAMFA**, *Université de Picardie Jules Verne*.
- Jan 2015 **Perspectives in Lie Theory**, *Centro di Ricerca Matematica Ennio De Giorgi, Pisa*.
- Nov 2014 **Algèbres et noeuds**, *Université de Versailles–St Quentin*.
- Apr 2014 **Journée de présentation de SAGE**, *Université de Picardie Jules Verne*.
- Jan 2014 **Algebra and Computation**, *Université Lyon 1*.
- Dec 2013 **Darstellungstheorietage**, *Lehrstuhl D, Aachen*.
- Dec 2013 **Nikolaus Conference**, *Lehrstuhl D, Aachen*.
- Nov 2013 **Réunion d'utilisateurs de Sage en région parisienne**, *Observatoire de Paris*.
 - Jul 2013 **Combinatoire Algébrique en théorie des représentations**, *Université de Tours*.
- Jun 2013 **Journée mathématique du LAMFA**, *Université de Picardie Jules Verne*.
- Jan 2013 **Combinatoire Algébrique en théorie des Représentations**, *Université de Besançon*.
- Dec 2012 **Nikolaus Conference**, *Lehrstuhl D, Aachen*.
- May 2012 **Théorie de Garside: état de l'art et perspectives**, *Université de Picardie Jules Verne*.
- Sep 2008 **Problems in Analysis**, *University of the Aegean Sea*.

Organization

- Jul 2018 **2-day meeting on Computational Lie theory**, organized together with M. Geck.
<http://eirinchavli.com/computational-lie-theory.html>

Further scientific activities

- Dec 2017 *Effective teaching in English*, Sprachenzentrum, Stuttgart.
- Sep 2017 *Writing Reader Friendly Texts in English*, Sprachenzentrum, Stuttgart.
- Jun 2017 *Using Writing to Improve Student Learning*, HDZ, Stuttgart.
- Jun 2017 *Counting women: the challenges of being a female mathematician*, SwissMap, Zürich.
- May 2015 Tutor in the program *Animath pour collégiens et lycéens*.
- Apr 2015 *The use of Hal in science and bio-medicine*, CFDip, Paris.
- Apr 2015 *Group management*, CFDip, Paris.
- Apr 2015 *Latex in English*, CFDip, Paris.
- Jun 2011 Tutor in the program *Introduction to LaTeX*, University of Athens.
- 2004–2007 Participant in the project *Didactics of Mathematics*, University of Athens.

Fellowships, Scholarships and Awards

- 2017–2019 Postdoctoral Fellowship, Universität Stuttgart.
- 2016–2017 Postdoctoral Fellowship, Universität Stuttgart.
- 2015–2016 ATER, Université de Picardie Jules Verne.
- 2012–2015 Ph.D. scholarship from Université Paris Diderot.
 - 2002 2nd place in the National Mathematics Competition “Euclides” of the Hellenic Mathematical Society.

Languages

- GREEK Native language
- ENGLISH Full professional proficiency (Certificate of Proficiency in English, University of Michigan)
- FRENCH Full professional proficiency (Semester-long courses in French language for foreigners (Français Langue Etrangère), level B2-C1, Université Paris Diderot)
- GERMAN Level B1 (Deutsch-Test für Zuwanderer)

IT Skills, Mathematical Software

GAP3 package CHEVIE, SAGE, Maple

Interests

- DANCE Ballet and Modern dance
- PIANO Participated in several concerts
- OTHER Cinema, Music, Cooking, Swimming, Origami, Countryside activities