

Anna Szumowicz

Institut de Mathématiques de Jussieu -
Paris Rive Gauche (IMJ-PRG)
15-16 5th floor
4 place Jussieu,
Boite Courrier 247,
75252 Paris Cedex 5

Date of birth: 08.11.1990
Nationality: Polish
email: anna.szumowicz@imj-prg.fr
Page Web: <https://webusers.imj-prg.fr/~anna.szumowicz/>

Education

PhD in Mathematics-joint programme between Durham University, UK and Université Pierre et Marie Curie (IMJ-PRG), under the supervision of Alexander Stasinski and Anne-Marie Aubert, **title:** Regular representations of $GL_N(\mathcal{O})$ and the inertial Langlands correspondence, **2015 – estimated completion date: July 2019**

M2 in Pure Mathematics, University Paris 13, France, under the supervision of Anne-Marie Aubert, **title:** Classification of irreducible admissible representation of $GL_n(\mathbb{Q}_p)$ following the work of Florian Herzig, **2013–2014**

Master in Pure Mathematics, Jagiellonian University, Poland, **2012-2014**

Licence in Mathematics, Jagiellonian University, Poland, **2009-2012**

Research interests

Representation theory of p -adic groups, number theory, p -adic groups, local Langlands program, integer valued polynomials, simultaneous p -orderings

Research activities

Publications/preprints

Types on $GL_p(\mathcal{O})$,
in preparation

On the optimal rate of equidistribution in number fields,
with M. Fraczyk, available at: <https://arxiv.org/pdf/1810.11110.pdf>

Simultaneous p -orderings and minimising volumes in number fields,
with J. Byszewski and M. Fraczyk, **Journal of Number Theory** 173 (2017), 478–511

Talks and posters

Representations of finite groups and cuspidal types for $GL_2(\mathbb{Z}_p)$.,
30.11.2017, Séminaire des thésards, Université Paris 7, Paris

Les représentations de $GL_2(\mathbb{Z}_p)$. Une application de la théorie de Clifford.,
16.11.2017, Rencontres Master-Doctorants, Université Paris 7, Paris

Orbits of cuspidal types on $GL_2(\mathcal{O})$, poster
2-6.10.2017, Arithmétique, Géométrie et Représentations, UPMC, Paris

Cuspidal types for $GL_2(\mathcal{O})$.,
26.09.2017, Arithmetic Study Group, Durham University, Durham, UK

Cuspidal types for $GL_2(\mathcal{O})$.,
17-23.09.2017, 20th International Workshop for Young Mathematicians "Number Theory", Cra-
cow, Poland

Minimising volumes in number fields poster,
17-20.07.2015, Around Langlands correspondences, Université Paris 11, Orsay, France

Simultaneous p -orderings and minimising volumes in number rings
10.09.2015, III Congreso de Jóvenes Investigadores de la Real Sociedad Matemática Española,
Murcia, Spain

n -universal sets in number fields
13.03.2015, Number theory seminar, Graz, Austria

Talks at study groups

Talk during a reading group on "The admissible dual of $GL(N)$ via compact open subgroups", C.
Bushnell, P. Kutzko

Immeubles de $SL_N(V)$ et $GL_N(V)$ via les normes sur V de Goldman-Iwahori
20.02.2018, Immeuble de Bruhat-Tits, point de vue de Berkovich, UPMC, Paris

Talks at the study group on Local Langlands correspondence for $GL(2)$, academic year 2016/2017

Décompositions (retour sur l'immeuble à l'infini, décompositions de Cartan, Iwasawa),
5.12.2014, Ecole Polytechnique, France

Minicourse/workshops

Workshop on locally profinite groups, Langlands program,
16.09.2017, Jagiellonian University, Kraków, Poland

Representations of $GL_2(\mathbb{Q}_p)$ in characteristic p ,
minicourse at Jagiellonian University, 12.2014, Kraków, Poland

Conferences/ schools

On the Langlands Program: Endoscopy and Beyond, 17.12.2018-12.01.2019, Singapore

New Developments in Automorphic Forms, 23-27.04.2018, Seville, Spain

Workshop on Representation Theory and Analysis on Locally Symmetric Spaces,
5-9.03.2018, IAS, Princeton, IAS, USA

Representation theory of p -adic groups, 10-19.07.2017, IISER, Pune, India

Representation Theory and Algebraic Geometry,
11-16.06.2017, Weizmann Institute of Science, Rehovot, Israel

Representation Theory of Finite and p -adic Groups of Lie Type, 7-10.11.2016, CIRM, Marseille, France

The p-adic Langlands Program and Related Topics, 16-20.05.2016, Indiana University Bloomington

Algebraisation and Geometrisation in the Langlands Programme, 29.03-1.04.2016, Bristol, UK

Summer School Reductive Groups, 27.07-7.08.2015, Schloß Schney, Germany

Journées Arithmétiques à l'ENS de Lyon, 10-12.06.2015, Lyon, France

Spring School on p-adic Arithmetic, 23-27.03.2015, Essen, Germany

Winter Meeting on Bruhat-Tits buildings, 6-9.01.2015, Imperial College London, UK

Teaching

at Durham University, UK

Algebra II (2nd year, groups and rings) - tutorials, 66 hours, the academic year 2016/2017,

at Jagiellonian University, Poland

Mathematics for Biologists, correction of homeworks, winter 2014-2015,

Scholarships

PhD scholarship EPSRC, UK, 10.2015-03.2019,

Bourse Excellence M2, University Paris 13, academic year 2013-2014,

Ministry of National Education scholarship for scientific achievements, Poland, academic year 2012/2013

Last updated: November 29, 2018