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ANGE BIGENI

WORK EXPERIENCE

- 2018–current **Mathematics teacher in CPGE (Higher School Preparatory Classes)**
Lycée Georges de la Tour (Metz, France) · Economics CPGE
- 2016–2018 **Postdoctoral fellow**
Higher School of Economics (Mosow, Russia) · Enumerative combinatorics and representation theory
- 2015–2016 **ATER**
INSA Lyon (Villeurbanne, France) · Teaching fellow, researcher in enumerative combinatorics
- 2012–2015 **PhD student**
Université Claude Bernard Lyon 1 (Villeurbanne, France) · Teaching fellow, PhD thesis in enumerative combinatorics
- 2008–2012 **Élève normalien**
École Normale Supérieure de Cachan (Cachan, France) · Mathematics department
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EDUCATION (MATHEMATICS)

- 2012–2015 **PhD thesis in mathematics**
Université Claude Bernard Lyon 1 (Villeurbanne, France) · Under the supervision of Jiang Zeng (Lyon 1), defended in November 24, 2015 at Institut Camille Jordan. Title : Bijective combinatorics of permutations and Genocchi numbers. Doctoral committee : Jean-Christophe Aval (reviewer), Guoni Han, Frédéric Jouhet, Jean-Christophe Novelli, Marc Van Leeuwen (reviewer), Jiang Zeng (advisor)
- 2011–2012 **Master in mathematics**
Université Claude Bernard Lyon 1/École Normale Supérieure de Lyon (Lyon, France) · Specialty combinatorics
- 2010–2011 **Agrégation externe de mathématiques**
École Normale Supérieure de Cachan (Cachan, France) · Competitive exam for recruiting teachers, rang 35
- 2009–2010 **Master in mathematics**
Université Pierre et Marie Curie (Paris, France) · Specialty algebraic geometry
- 2008–2009 **Bachelor in mathematics**
Université Paris Diderot/École Normale Supérieure de Cachan (Paris, France) ·
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FORMATION (OTHER)

2016 **Bachelor in russian language**

Université Jean Moulin Lyon 3 (Lyon, France) · First year in russian degree LLCE (langue, littérature et civilisation étrangère)

PUBLICATIONS

- [1] Symmetric Dellac configurations, Journal of Integer Sequences, Vol. 23 (2020), Article 20.4.6.
 - [2] Symmetric Dellac configurations and symplectic/orthogonal flag varieties, Linear Algebra and its Applications, Volume 573, July 2019, Pages 54-79.
 - [3] A generalization of the Kreweras triangle through the universal sl_2 weight system, Journal of Combinatorial Theory, Series A, Volume 161, January 2019, Pages 309-326.
 - [4] Combinatorial interpretations of the Kreweras triangle in terms of subset tuples, Electronic Journal of Combinatorics 25, Issue 4 (2018), P4.44.
 - [5] Enumerating the symplectic Dellac configurations, arxiv:1705.03804, May 2017.
 - [6] A new bijection relating q -Eulerian polynomials, Advances in Applied Mathematics, Volume 81, October 2016, Pages 212-239.
 - [7] A bijection between irreducible k -shapes and surjective pistols of height $k - 1$, Discrete Mathematics, Volume 338, Issue 8, 6 August 2015, Pages 1432-1448.
 - [8] Combinatorial Study of Dellac Configurations and q -extended Normalized Median Genocchi Numbers, Electronic Journal of Combinatorics 21, Issue 2 (2014), P2.32.
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COMMUNICATION

2016 **Characteristic classes and intersection theory**

EHESE (Moscow, Russia) · Combinatorics of a sequence of integers related to the symplectic degenerated flag varieties.

2015 **Journées du groupe de travail Combinatoire Algébrique**

Ecole Polytechnique (Palaiseau, France) · A new bijection relating q -Eulerian polynomials

2015 **Séminaire Lotharingien de Combinatoire 74**

Ellwangen (Germany) · A new bijection that preserves Euler-Mahonian statistics

2014 **FPSAC 2014**

DePaul University (Chicago) · A bijection between the irreducible k -shapes and the surjective pistols of height $k - 1$

2013 **Journées du groupe de travail Combinatoire Algébrique**

Université Paris-Est Marne-la-Vallée (France) · Combinatorial Study of Dellac Configurations and q -extended Normalized Median Genocchi Numbers

TEACHING

2018–current	Mathematics teacher in CPGE (Higher School Preparatory Classes) Lycée Georges de la Tour (Metz, France) · Economics CPGE
2015–2016	ATER INSA Lyon (Villeurbanne, France) · Teaching fellow of algebra and analysis for second-year engineering students medal.jpeg
2012–2015	PhD student Université Lyon 1 (Villeurbanne, France) · Teaching fellow of algebra and analysis for third-year students

LANGUAGES

French : mothertongue.
English : fluent.
Russian : intermediate.
Italian : notions.

COMPUTER SKILLS

TeX, Caml, MATLAB, Maple, SageMath, Scilab, Linux, ubuntu, Excel, Word, PowerPoint, html, Coq