CURRICULUM VITAE

Name: Anghel Cristina Ana-Maria
Date of birth: 26 August 1991
Place of birth: Bucharest Romania
Gender: Female

Studies:

1998-2002 Classes I-IV: "Nicolae Titulescu" General school nr.3
2002-2006 Classes V-VIII: "Tudor Vianu" National High School of Computer Science
1998-2006 Classes I-VIII: Studies of piano at "Iosif Sava" School of Music nr.1
2006-2010 Classes IX-XII: "Tudor Vianu" National High School of Computer Science
2010-2011 First year student at University of Bucharest Department of Mathematics and Computer Science
2011-2012 Second year student at University of Bucharest Department of Mathematics and Computer Science
2012-2013 Third year student at University of Bucharest Department of Mathematics and Computer Science
Student at Preliminary Cycle at SNSB
Bachelor Thesis: Alexander Polynomials of Three Manifolds directed by Prof. Daniel Matei and Prof. Victor Vuletescu
Completed Bachelor degree with average 10.
2013-2014 First year master student at Bucharest University and SNSB
Completed first year Master at Bucharest University with average 10
October 2013-November 2015: Researcher in training in the project: "Investigation of quantum and finite type invariants, applications in geometry and topology" directed by Prof. Dorin Cheptea.
2014-2015 Second year master student at University Paris Diderot
Completed second year Master at Paris Diderot University with mention "Très bien"
2015-2016 First year PhD student at Paris Diderot University

Results at mathematics and physics competitions:

2004-2005 7th class: Mention and Gold Medal at the National Mathematical Olympiad
2005-2006 8th class: Second Prize and Gold Medal at the National Mathematical Olympiad
2006-2007 9th class: Participation at the National Mathematical Olympiad
2007-2008 10th class: Mention and Silver Medal at the National Mathematical Olympiad
Honorable Mention at the National Physics Olympiad
2008-2009 11th class: Mention and Gold Medal at the National Mathematical Olympiad
Gold Medal at the Italian National Mathematical Olympiad
Participation at the National Physics Olympiad
2009-2010 12th class: Second Prize and Gold Medal at the National Mathematical Olympiad
Henri Poincare Prize offered by Ecole Polytechnique
Mention at the National Physics Olympiad

Bronze Medal at the International Contest
"Romanian Master of Sciences"- Section Physics

2010-2011 1st year : First Prize at the National Mathematical Contest
"Traian Lalescu" - local round

Third Prize at the National Mathematical Contest
"Traian Lalescu" - final round

2011-2012 2nd year : Silver medal at SEEMOUS Olympiad for University Students
Second Prize at the National Mathematical Contest
"Traian Lalescu" - final round
Third Prize at IMC Competition for University students

2012-2013 3rd year : Third Prize at IMC Competition for University students

Summer Schools, Conferences, Talks:

2012: -SMI Perugia (29th July- 31st August):
I attended 2 courses: Differential geometry- Prof. Francesco Mercuri Grade A
Algebraic geometry- Prof. Kristian Ranestad Grade B

-The 20th National School on Algebra, Discrete Invariants in Commutative algebra and Algebraic Geometry, Mangalia, 2-7 September 2012

2013:- Tomorrow's Mathematicians Today**,** Saturday 16th February 2013, University of Greenwich**,** London, UK
with the talk:
"The Jordan-Brouwer and the Invariance of the domain theorems with modern applications" which was nominalised on short list for GCHQ Prize

- Workshop "Geometry and PDE's", 23-24 May 2013, University of Vest, Timisoara, Romania with the talk in Student Session:
"Topological degree and Invariance of domain theorems"

- Young Topologists Meeting, 8-12 July 2013, EPFL, Lausanne, Switzerland, with the talk:
"Twisted polynomials for knots and 3-manifolds with applications to concordance, slicing and fibering"

- Participation at the Course Topology in Low Dimensions, 26-30 August 2013, University of Durham, UK

- 21st National School on Algebra - 21st Edition 2-6 September 2013, Bucharest "Simion Stoilow" Institute of Mathematics

- Second Erlangen Fall School on Quantum Geometry, 7-11 October 2013, Erlangen, Germany

2014:-Workshop for Young Researchers in Mathematics, 22 - 23 May, 2014 Constanta, Romania

-Geometric and Quantum Topology in Dimension 3, 23-27 June, 2014 CIRM Luminy, France

-Young Topologists Meeting 2014 ,30 June-04 July, 2014 University of Copenhagen, Denmark

-Algebres et Noeuds, 14 November 2014, Université de Versailles-St Quentin, France

2015: -La Llagonne, 12-16 January 2015, France

-Winter Braids V - Pau, 16-19 February 2015, Université de Pau et des pays de l'Adour, France

-ECSTATIC, 11-12 June 2015, Imperial College London, UK with the talk
"Multivariable link invariants and renormalized quantum dimension"

-Young Topologists Meeting 6-10 July 2015, EPFL Lausanne, Switzerland with the talk "Renormalized quantum dimension and multivariable invariants for links"
-Mapping class groups, 3- and 4- manifolds, 27 July-1 August 2015, Cluj, Romania
- Engelberg Summer School, 2–4 September 2015, Switzerland with the talk "Renormalized quantum dimension and multivariable link invariants"

Upcoming:

- Third SwissMAP Geometry & Topology conference, January 25-29, 2016, Engelberg, Switzerland.
- Winter Braids VI, 22-25 February 2016, University of Lille I.
- La Llagonne, 29 February-04 Mars, 2016.

Awards and Honors:

2010-2014 Merit scholarship from the University of Bucharest
2012-2013 Research Fellowship from University of Bucharest for the project "Alexander Polynomials and metabelian representations of knot groups" directed by Prof. Daniel Matei and Prof. Victor Vuletescu
2014-2015 PGSM Fellowship for M2 at Paris Diderot
2015-2018 DIM RDM-IdF PhD fellowship

Grades during M1 and M2:

First year of Master (University of Bucharest):

Rings and Categories of Modules: grade 10/10
Algebraic Curves: grade 10/10
Algebraic Topology: grade 10/10
Riemannian Geometry: grade 10/10
Groups and Representations: grade 10/10
Homological Algebra: grade 10/10
Commutative Algebra: grade 10/10
Introduction to Sheaves Theory: grade 10/10

Second year of Master (Paris Diderot University):

Introductive Courses:
Differential Topology I -Paris 7 - Prof. Anton Zorich: grade 19/20
Riemann Surfaces- Paris 6- Prof. Julien Marche: grade 14/20

Fundamental Courses I:
Differential Topology II- Paris 7 - Prof. Anton Zorich: grade 16.5/20

Fundamental Courses II:
Topology of low dimensional manifolds- Paris 7 - Prof. Christian Blanchet: grade 18/20

Specialized Courses :
Heegaard-Floer homology- Paris 7 - Prof. Christian Blanchet: grade 18/20

Unite d'ouverture :
Participation at the Topology Seminar and Conferences: grade 17/20

Disertation :
Renormalized quantum dimension and multivariable link invariants: grade 18/20

Research activity:

2012-2013: -Bachelor Thesis: Alexander Polynomials of Three Manifolds directed by Prof. Daniel Matei and Prof. Victor Vuletescu

- Participation at Conference "Young Topologists Meeting", 8-12 July 2013, EPFL, Lausanne, with the talk:
"Twisted polynomials for knots and 3-manifolds with applications to concordance, slicing and fibering"

2013-2014: - Researcher in training in the project:
"Investigation of quantum and finite type invariants, applications in geometry and topology" directed by Prof. Dorin Cheptea.

2014-2015: - Second year Master Thesis:
"Renormalized quantum dimension and multivariable link invariants"
directed by Professor Christian Blanchet .
Defended 22 June 2015.

- Participation at ECSTATIC, 11-12 June 2015, Imperial College London, UK with the talk;
"Multivariable link invariants and renormalized quantum dimension".

- Participation at Young Topologists' Meeting 2015, 6-10 July 2015, EPFL, Ecublens, Switzerland with the talk;
"Renormalized quantum dimension and multivariable invariants for links".

- Participation at Engelberg Summer School , 2-4 September 2015, Switzerland with the talk;
"Renormalized quantum dimension and multivariable link invariants".

- Participation at the workgroup TQFT's Non-Semisimples with the talk "The modified link invariants for representations of unrolled quantum sl(2)", 20 October 2015

References

Prof. Christian Blanchet from Paris Diderot University e-mail: firstname.name@imj-prg.fr
where firstname=christian,name=blanchet

Prof. Dorin Cheptea from IMAR e-mail: Dorin.Cheptea@imar.ro

Prof. Daniel Matei from IMAR e-mail: Daniel.Matei@imar.ro

Prof. Sergiu Moroianu from IMAR e-mail: sergiu.moroianu@imar.ro

Prof. Liviu Ornea from Bucharest University e-mail: lornea@fmi.unibuc.ro

Prof. Victor Vuletescu from Bucharest University e-mail: vuli@fmi.unibuc.ro

Prof. Anton Zorich from Paris Diderot University e-mail: anton.zorich@gmail.com

Hobbies: Reading, Cycling, Playing the piano, Swimming.

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