

Angelina Zheng

CURRICULUM VITAE

Contact Information

University of Roma Tre, Department of Mathematics and Physics
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Current Position

October 2022 – Present

Postdoctoral fellow, University of Roma Tre

Research interests

- Tropical curves
- Rational cohomology of moduli spaces of curves
- Compactification of moduli spaces of curves
- Low-gonality curves

Academic Positions

Aug 2022 – Dec 2022

Visiting Postdoc, University of Stockholm

Feb 2022 – Sep 2022

Postdoctoral fellow, University of Pavia

Education

2018 – 2021

PhD in Mathematics, University of Padova

Title of dissertation: “On the cohomology of moduli spaces of trigonal curves.”

Supervisor: Prof. Orsola Tommasi

Date and place of final exam: 11/01/2022, University of Padova

2016 – 2018

Master degree (*laurea magistrale*) in Mathematics, University of Bologna

Curriculum: General and applicative

Title of dissertation: “Comparison theorems of GAGA type and Serre duality.”

Supervisor: Prof. Luca Migliorini

Final mark: 110/110 cum laude

2013 – 2016

Bachelor degree (*laurea triennale*) in Mathematics, University of Bologna

Title of dissertation: “Classificazione delle curve ellittiche viste come curve algebriche piane.”

Supervisors: Prof. Alessandro Gimigliano and Prof. Davide Aliffi

Final mark: 110/110 cum laude

February 2017 – July 2017
Erasmus student at University of Amsterdam

Talks and Seminars

December 1, 2023

Invited speaker at the workshop *Algebraic Geometry in Pavia: young perspectives* at University of Pavia.

September 20–22, 2023

Invited speaker at the *Youngish Researchers Meeting in Algebra and Geometry 2023* at University of Roma Tre.

July 3–7, 2023

Invited speaker at the *29th Nordic Congress of Mathematicians* at Aalborg University.

February 9, 2023

Seminar “Stable cohomology of moduli spaces of low-gonality curves” at the *Geometry Seminar* of the University of Roma Tre.

December 21–22, 2022

Invited speaker at *XMaths Workshop 2022* at the Department of Mathematics of the University of Bari.

November 30, 2022

Invited speaker at *Insalate di Matematica* at University of Milano-Bicocca.

November 9, 2022

Invited speaker at *MDU seminar* at Mälardalens Universitet.

October 19, 2022

Seminar “Stable cohomology of the moduli space of trigonal curves” at the *KTH & SU Algebra and Geometry seminar* of the KTH Royal Institute of Technology and Stockholm University.

April 6–8, 2022

Invited speaker at *Fifth Meeting for Young Women in Mathematics “Cohomological Methods in Geometry”* at the University of Freiburg.

January 29, 2022

Invited speaker at *MAP: Moduli Across the Pandemic*, online seminar series.

February 3, 2021

Graduate seminar *Introduction to the moduli space of smooth curves and its compactification* at the University of Padova.

June 26, 2020

Learning seminar *Stable reduction of curves* at the Virtual school Algebraic and Tropical Online Meetings (ATOM).

Publications and preprints

Bergström, J. and Zheng, A. *Stable cohomology of moduli spaces of hyperelliptic curves on Hirzebruch surfaces*. preprint arXiv:2312.14800, 2023.

Zheng, A. *Stable cohomology of the moduli space of trigonal curves*, International Mathematics Research Notices (2023). rnad011, <https://doi.org/10.1093/imrn/rnad011>.

Zheng, A. *Rational cohomology of the moduli space of trigonal curves of genus 5*, manuscripta math. 169, 603–631 (2022). <https://doi.org/10.1007/s00229-021-01347-x>.

Research stays

2022 **Visiting researcher**, Stockholm University, 5 months.

Teaching and Mentoring

July 2023

Advisor for AGNES summer school at Brown University.

October 2021 – January 2022

Geometry

Teaching assistant

Department of Physics and Astronomy, University of Padova.

Instructor: Prof. Remke Nanne Kloosterman.

October 2020 – January 2021

Geometry

Teaching assistant

Department of Physics and Astronomy, University of Padova.

Instructor: Prof. Remke Nanne Kloosterman.

October 2019 – January 2020

Geometry

Teaching assistant

Department of Physics and Astronomy, University of Padova.

Instructor: Prof. Remke Nanne Kloosterman.

October 2017 – January 2018

Geometry 1A

Teaching assistant

Department of Mathematics, University of Bologna.

Instructor: Prof. Mirella Manaresi.

Outreach activities

Kids University 2021, University of Padova.

Matematica: che professione?!, 2021, University of Padova.

Circoli Matematici 2020, University of Padova.

Kids University 2019, University of Padova.

Other activities

Reviewer for zbMATH, 2020–Present.

PhD representative in the Department Council, Academic Years 2019-2020 and 2020/2021.

Computer skills

- Python
- Matlab
- Singular
- Macaulay2
- L^AT_EX
- HTML

Language skills

Italian: native; English: Level C1 (IELTS: 7/9); Chinese: basic; German: basic.

Awards and Scholarship

Gini Foundation grant for a research period abroad, 2021.

Winner of “Premio di studio a favore di studenti meritevoli iscritti nell a.a. 2014/2015 a corsi di studio dell’Università di Bologna”.

Rome, December 29, 2023.