# Giancarlo Castellano

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I am a PhD student in mathematics at the University of Vienna. My current research revolves around special values of Rankin–Selberg automorphic *L*-functions.

#### Education

2017–present	PhD in mathematics, University of Vienna
	Supervisor: Harald Grobner
	Thesis: "Whittaker periods of isobaric sums over totally real fields and special
	<i>L</i> -values"
2015–2017	Master's degree in mathematics, University of Vienna
	Supervisor: Leonhard Summerer
	Thesis: "The Hasse–Minkowski Theorem for global fields"
2012–2015	Bachelor's degree in mathematics, University of Vienna
	Supervisor: Herwig Hauser
	Theses: • "Elliptic curves and Fermat's Last Theorem"
	• " <i>p</i> -adic analysis and its applications"

### Work experience

2021-present	Doctoral researcher, Faculty of Mathematics, University of Vienna
	PI: Harald Grobner (Grants Y966, P32333 of the Austrian Science Fund)
2018–2021	Doctoral researcher and lecturer, Faculty of Mathematics, Univ. of Vienna
	Uni:docs Fellowship Programme for Doctoral Candidates
2018–2020	Adjunct Lecturer, College of Teacher Education Burgenland
2018–2019	Adjunct Lecturer, Faculty of Physics, University of Vienna
2017	Student assistant, Faculty of Mathematics, University of Vienna
	PI: Herwig Hauser (Grant P25652 of the Austrian Science Fund)
Teaching	
2019–2021	Faculty of Mathematics, University of Vienna:
	• Locally compact groups (spring 2021; joint with Harald Grobner), advanced lec-
	ture course in the master's programme.
	• Problem session Introduction to analysis (fall 2019/20 & fall 2020/21).
	• Problem session Discrete mathematics (spring 2020).
2018–2020	College of Teacher Education Burgenland:
	• Stochastics I (fall 2018/19 & fall 2019/20), lecture course and problem session.
	<ul> <li>Supervision of a bachelor's thesis on the RSA encryption system.</li> </ul>
2018–2019	Faculty of Physics, University of Vienna:
	• Problem session Analysis I for physicists (fall 2018/19).

	• Problem session Analysis II for physicists (spring 2018).
2015–17	Faculty of Mathematics, University of Vienna:
	• Tutorial for Introduction to mathematics (fall 2015/16 & fall 2016/17).

# Scholarships and honors

2018-2021	Uni:docs Fellowship Program for Doctoral Candidates
2017	Participant in the Univ. of Vienna's High Potential Programme NaturTalente
2013, , 2017	Performance Scholarship of the University of Vienna
2011, 2012	Inclusion in the Italian "National Excellence Honors Roll"

# Presentations and talks

Jan. 2023	Fordham University, New York City
	Topic: Overview of my dissertation topic and presentation of results
Jan. 2022	Univ. of Vienna, Seminar "Representation Theory and Automorphic Forms"
	Topic: Overview of and progress made in my dissertation topic
July 2019	University of Vienna, Workshop of the Algebraic Geometry research group
	Topic: Moduli spaces of elliptic curves with level structure
Apr. 2019	Vienna School of Mathematics (VSM), PhD Colloquium
	<i>Topic</i> : The local-global principle for quadratic forms over $\mathbb Q$
Jan. 2019	University of Vienna, joint seminar of the algebra and number theory group
	Topic: Fermat's Last Theorem and the modularity theorem
Nov. 2017	University of Vienna, seminar of the Algebraic Geometry research group
	Topic: An adèlic proof of the Riemann–Roch theorem

# *Formative and scientific activities (selection)*

2022	Participant in the Summer School on the Langlands program, IHES
2022	Participant in the event <i>Diversity in Academia</i> of the Austrian Association of Women in Mathematics
2022	Participant in the workshop <i>Minimal Representations and Theta Correspondence</i> , Erwin Schrödinger Institut (ESI), Vienna
2021-present	Organizer of the PhD Colloquium of the Vienna School of Mathematics (VSM)
2021–2022	Organizer of the VSM mini-course Introduction to the Mathematics of String Theory
2021	Participant in the VSM workshop A PhD in mathematics - career possibilities &
	gender aspects
2020	Participant in the <i>Cross-Atlantic Representation Theory and Other topics ONline</i> (CAR- TOON) conference
2019	Participant in the conference Automorphic p-adic L-functions and regulators, Lille
2018	Participant in the conference New Developments in Automorphic Forms, Seville
2015, 2016, 2017	Participant in the Vojtěch Jarník International Mathematical Competition
2015	Participant in the first three weeks of the special semester on <i>Artin Approximation and Singularities</i> , CIRM Luminy

#### IT skills

Proficiency with: LATEX, MS Word and MS Excel; moderate familiarity with: MATLAB/Octave, bash, HTML, CSS and Python; rudiments of: Java and Mathematica.

#### Languages

Italian — native; English, German — fluent; French, Spanish — intermediate.

Find out more at homepage.univie.ac.at/giancarlo.castellano.