

Razvan Apredoaei

Curriculum Vitae

✉ rapredoa@uni-koeln.de

Education

- 2021–2026 **PhD in Mathematics**, *Université Paris Cité*, Paris, France.
- 2020 **Agrégation de Mathématiques**, Reçu 94ème.
- 2018–2020 **Master's degree in Mathematics**, *Université de Rennes 1*, Rennes, France, Mention Très bien (with highest honors).
- 2017–2018 **Bachelor's Degree in Mathematics**, *Université de Rennes 1*, Rennes, France, Mention Très bien (with highest honors).
- 2017–2021 **Élève fonctionnaire-stagiaire (Student and Civil Servant)**, *ENS Rennes (École Normale Supérieure)*, Rennes, France.
- 2014–2017 **Classe Préparatoire aux Grandes Écoles (CPGE), MPSI-MP***, *Lycée Privé Sainte-Geneviève*, Versailles, France.
Highly selective undergraduate curriculum with a heavy focus on Mathematics and Physics.
- 2014 **Baccalauréat**, *Lycée Général Pierre de Fermat*, Toulouse, France.

PhD thesis

- Title *On some properties and applications of Toeplitz operators*
- Supervisors Xiaonan Ma, George Marinescu
- University *Université Paris Cité*
- Defense date May 4th, 2026

Job Experience

- 2026– **Wissenschaftlicher Mitarbeiter**, *Universität zu Köln*, Köln, Deutschland.
Postdoctoral researcher.
- 2025–2026 **Attaché Temporaire d'Enseignement et de Recherche (ATER)**, *Cergy Paris Université*, Cergy, France.
Temporary Lecturer and Research Fellow, carried out a full teaching load of 192 hours.
- 2024–2025 **Attaché Temporaire d'Enseignement et de Recherche (ATER)**, *Université Paris Cité*, Paris, France.
Temporary Lecturer and Research Fellow, carried out a partial teaching load of 96 hours.
- 2021–2024 **Doctorant contractuel avec mission d'enseignement**, *Université Paris Cité*, Paris, France.
Contractual Doctoral Student with an annual teaching load of 64 hours.

Teaching Experience

- 2025-2026 **Lecturer and Teaching Assistant: Applied Linear Algebra**, *CY Tech*, Cycle ingénieur première année, Filière Apprentissage.
3rd-year undergraduate engineering curriculum.
- 2025-2026 **Teaching Assistant: Exploratory Data Analysis with R-Studio**, *CY Tech*, Cycle ingénieur première année.
3rd-year undergraduate engineering curriculum.
- 2025-2026 **Teaching Assistant: Analysis**, *CY Tech*, Cycle Pré-ingénieur première année..
1st-year undergraduate engineering curriculum.
- 2024-2025 **Oral Examiner: Analysis and Algebra**, *Université Paris Cité*, L1 Mathématiques.
1st-year undergraduate.
- 2024-2025 **Teaching Assistant: First year Mini Project**, *Université Paris Cité*, L1 Mathématiques.
1st-year undergraduate, Mentoring students in the reading and synthesis of a short academic paper.
- 2024-2025 **Teaching Assistant: Analysis and Algebra**, *Université Paris Cité*, L2 MIAHS.
2nd-year undergraduate.
- 2023-2024 **Teaching Assistant: Computer Science**, *Université Paris Cité*.
Practical IT Skills for Mathematics (1st-year undergraduate). Python, LaTeX, Open Office.
- 2022-2024 **Teaching Assistant: Analysis for biology**, *Université Paris Cité*, L2 Biologie.
2nd-year undergraduate, Ordinary differential equations applied to biology.
- 2021-2022 **Oral Examiner: Analysis and Algebra**, *Université Paris Cité*, L1 Mathématiques.
1st-year undergraduate.
- 2021-2024 **Teaching Assistant: Analysis**, *Université Paris Cité*, L1 MIAHS.
1st-year undergraduate.

Papers and Preprints

- [1] R. Apredoei, X. Ma and L. Wang, *Fubini–Study forms on punctured Riemann surfaces*, C. R. Math. Acad. Sci. Paris **363** (2025), 603-615.
- [2] R. Apredoei, *Asymptotics for Toeplitz operators with symbol an indicator function on a symplectic manifold*, available at [arXiv:2606.24503](https://arxiv.org/abs/2606.24503), (2026).

Talks

- July 7-11, 2025 **Centre International de Rencontres Mathématiques (CIRM), Marseille**, *Conference Complex Geometry, Complex Analysis and Dynamics*, Short Talk : Asymptotics for Toeplitz operators with symbol an indicator function.
- April 5, 2023 **PhD Students Seminar**, *Université Paris-Saclay, Institut de mathématiques d'Orsay*, An introduction to local index theory.

Conferences and Workshop (participant)

- 2026 **Workshops.**
- June 17, *Asymptotic Problems in Geometry*, École Polytechnique, Palaiseau, France.

2026 **Conferences.**

- Mai 10-15, *Complex Geometry and Dynamical Systems*, MFO Oberwolfach, Germany.

2025 **Conferences.**

- August 3-9, Summer School *Invitation to Complex Geometry*, Erdős Center, Alfréd Rényi Institute of Mathematics, Budapest, Hungary.
- July 7-11, *Complex Geometry, Complex Analysis and Dynamics*, CIRM, Marseille, France.
- Mai 12-16, *From Complex Analysis to Quantization*, Chern Institute for Mathematics, Nankai University, Tianjin, China.

2024 **Conferences.**

- December 16-20, *Around Local Index Theory*, Centre de Mathématiques Laurent Schwartz (CMLS), École Polytechnique, Palaiseau, France.

2023 **Conferences.**

- July 24-28, *Quantization in Geometry*, Universität zu Köln, Cologne, Germany.
- June 12-16, Summer School *Advances in Special Kähler metrics*, Le Croisic, France.

2022 **Conferences.**

- November 7-11, *Bergman kernels in Microlocal Analysis and Mathematical Physics*, CIRM, Marseille, France.
- October 16-21, *Complex Geometry, Dynamical Systems and Foliations*, CIRM, Marseille, France.
- September 4-9, *Complex Geometry and Dynamical Systems*, MFO Oberwolfach, Germany.

■ Programming Languages

LaTeX, Python, R, Scilab, Caml.

■ Spoken Languages

French (native), English (TOEIC 955/990), German (Goethe-Zertifikat C1), Romanian (Notions).