

Ilayda Demir

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She/her/hers
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Education

Master's

- 2025-2026 Paris Cité University Pure mathematics Master's 2 (14.53/20)

Master's 2 Thesis:

Title: Khovanov homology and the Rasmussen invariant

Supervisor: Marco Golla

Grade: 17/20

- 2024-2025 Paris Cité University M1 Pure and applied mathematics Master's 1 (14.18/20)

Master's 1 Thesis:

Title: Introduction to C^* -algebras and application to discrete groups

Supervisor: Georges Skandalis

Grade: 17/20

Bachelor's

- 2023-2024 Paris Cité University Pure and applied mathematics Bachelor's 3 (14.9/20)

- 2022-2023 Lycée Jules Ferry (Versailles, France)

PSI (Physics-Engineering) / Classe préparatoire aux grandes écoles

- 2021-2022 Lycée Lakanal (Sceaux, France)

MPSI (Mathematics-Physics-Engineering) / Classe préparatoire aux grandes écoles

High school

- 2016-2021 Saint Benoît French speaking bilingual highschool (Istanbul, Turkey)

Attended Summer Schools

Nesin Mathematics Village Summer Programs for Graduate and Undergraduate Students in Izmir, Turkey:

-August 2026 (1 week)

- July-August 2025 (3 weeks)

"First Steps in Complex Geometry" 1,2,3 <https://nesinkoyleri.org/dersler/2025-first-steps-in-complex-geometry-1-tomatis/>

- July 2024 (2 weeks)

"An Introduction to Geometric Topology" <https://nesinkoyleri.org/dersler/2024-an-introduction-to-geometric-topology/>

"The Fundamental Theorem of Algebra" <https://nesinkoyleri.org/dersler/2024-the-fundamental-theorem-of-algebra-deloro/>

- July 2023 (2 weeks)
 "Introduction to Topology" <https://nesinkoyleri.org/dersler/2023-introduction-to-topology-sissi/>
 "Introduction to Functional Analysis" <https://nesinkoyleri.org/dersler/2023-introduction-to-functional-analysis-aydin/>
- July 2022 (1 week)
 "Group Theory" <https://nesinkoyleri.org/dersler/2022-grup-teorisi-nesin/>

Other participations

- "Pisa PhD Event" at Pisa University and Scuola Normale Superiore (February 2026) Pisa, Italy
- "Maths C pour L" at Sorbonne University : meeting with female Bachelor students to share personal path to support girls in mathematics:
<https://c-pour-l-paris.math.cnrs.fr/comptereendu.html> (June 2025) Paris, France
- Graduate Maths Seminar at Istanbul Bilgi University : Talk (Zoom) "Introduction to C^* Algebras" (April 2025) Istanbul, Turkey
- Nesin Mathematics Village : Introduction to game theory (November 2018) Izmir, Turkey
- Quantum mechanics summer lectures at Kadir Has University : Introduction to quantum mechanics for highschool and undergraduate students (by Nihat Berker) (July 2018) Istanbul, Turkey
- Particle Physics Masterclass (CERN) for highschool students at Özyeğin University (March 2018) Istanbul, Turkey

Language Skills

Turkish (Native language)
 French (C1)
 English (B2)
 Italian (B1)

Last update: August 2026