CURRICULUM VITAE

SIIRI KIVIMÄKI

November 12, 2025

PERSONAL DETAILS

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EDUCATION

2022 - present	**PhD studies**
	Université Paris Cité (France) and University of Helsinki (Finland), dual agreement.
	Thesis: *Universality problems in non-elementary classes.*
	Supervisors: Juliette Kennedy, Jouko Väänänen, Boban Veličković.
2021 - 2022	**MSc in Mathematics**
	Université Paris Cité (France). Mention *"très bien"*.
	Programme: *M2 Logique Mathématique et Fondaments de l'Informatique.*
2020 - 2021	**Master's programme in mathematics and statistics**
	University of Helsinki (Finland).
Fall 2019	**Exchange studies**
	University of Toronto (Canada).
2017 - 2021	**Bachelor's programme in mathematics and statistics**
	University of Helsinki (Finland).

INVITED CONFERENCE TALKS

February 2025	*Universality and Aronszajn trees.*
	Arctic Set Theory Workshop, Kilpisjärvi, Finland.
November 2024	*Universal Aronszajn trees.*
	Mid Atlantic Mathematical Locic Seminar, Rutgers University, USA.
July 2024	*Universal Aronszajn trees.*
	Set Theory Conference *120 years of Choice*, University of Leeds, UK.
January 2024	*Best possible logics.*
	Finnish Mathematical Days 2024, Aalto University, Finland.
October 2022	*Abstract logics with Lindström theorems.*
	Women in Logic -meeting, Institute of Advanced Studies, IAS, Princeton, USA.

Upcoming

February 2026	*Meeting in honor of 80th birthday of Menachem Magidor*, UC Irvine, USA.
May 2026	*European Set Theory Conference*, Helsinki, Finland.

SEMINAR TALKS

August 2025	*Wide Aronszajn trees*
	UCLA Logic colloquium.
April 2025	*Partitions and Trees in Ehrenfeucht-Fraïssé games.*
	CUNY Set Theory Seminar (online).

April 2025	*Ruling out pathological sets of reals: descriptive set theory without axiom of choice.*
	Domast seminar of Phd students, Helsinki.
December 2024	*On games and trees.*
	Logic working group seminar of Turin, University of Turin, Italy.
May 2024	*Universality problems*
	Séminaire général de logique, IMJ-PRG, Université Paris Cité.
March 2024	*Universality problems and independece.*
	Bourbakette student seminar, Université Paris Cité.
March 2024	*Deriving an infinitary logic from a game.*
	Seminario Mundo - Lógica - Modelos, Bogotá, Colombia (online).
September 2023	*On some strong logics.*
	Seminar of Mathematical Logic,
	Mathematical Institute of Serbian Academy of Sciences and Arts, SANU.
March 2023	*The notion of a logic, topologically.*
	Domast seminar of Phd students, Helsinki.
June 2022	*About best possible logics.*
	GLM Student Seminar in Logic, Philosophy and Mathematics, Unicamp,
	Campinas, Brazil (online).

PUBLICATIONS AND PREPRINTS

1. Haytham Hammud, Siiri Kivimäki. *Wide Aronszajn lines.* 2025. In preparation.

2. Siiri Kivimäki. *Universal countably chromatic graphs.* 2025. Available at arxiv:2511.07608 Submitted.

3. Siiri Kivimäki. *Universal wide Aronszajn tree.* 2025. Available at arxiv:2511.06526. Submitted.

4. Omer Ben-Neria, Siiri Kivimäki, Menachem Magidor, Jouko Väänänen. *Aronszajn trees and maximality.* 2024. Available at arXiv:2305.07880. Submitted.

5. Siiri Kivimäki, Andrés Villaveces, Jouko Väänänen. *Cartagena logic.* 2023. Available at arxiv:2108.13495. Submitted.

6. Siiri Kivimäki, Boban Veličković. *Characterization of $\mathcal{L}^1_\kappa$.* 2023. Available at arXiv:2303.10759. Preprint.

TEACHING EXPERIENCE

Teaching assistant

2024-25	Topics in logic, Linear algebra and matrices I (University of Helsinki)
2022-23	Analyse III, Tutorat (L1) (Université Paris Cité)
	Elements of set theory (University of Helsinki)
2020-21	Introduction to logic I&II, Elements of set theory, Topology Ia,
	Measure theory (University of Helsinki)
2019-20	Linear algebra and matrices II (University of Helsinki)

Other teaching experience

2020	Teacher for MAB5 Probability and Statistics
	(Adult High School of Töölö, Helsinki, Finland)
2017-2021	Occasional substitute teacher in mathematics and physics
	(Kallio high school, Helsinki, Finland)
2017-2019	Private teacher in mathematics and physics; upper secondary, high school and
	university level, weekly meetings with 11 students in total.
2017	Educational mathematics videos for 8th graders with learning difficulties,
	videos later bought by Sanoma Pro (at Vidoppi Oy).

Organisatorial work

2024-25	Domast PhD-student seminar in University of Helsinki, co-organized with Eetu Halme.
2024-25	Advanced reading seminar in set theory, University of Helsinki.

Upcoming

September 2026	FLINTA* Conference in Set Theory at Erwin Schrödinger Institute, Austria.

Other

Grants and awards

2024 - 2026	A two-year grant from Magnus Ehrnrooth Foundation for doctoral studies.
2021 - 2022	PGSM Master Scholarship, Fondation des Sciences Mathématiques de Paris.
2017	Scholarship for succeeding in the matriculation exam in physics.
2017	Scholarship for serious studies in theater lighting.
2013	Scholarship for good grades in upper secondary school.

Visits

2025-26	Visitor at UCLA for the academic year 2025-26.
December 2023	Simon's semester, IMPAN Gdansk (Poland).
October 2022	Week at IAS, Princeton (USA).

Languages

Finnish	Native
English	Fluent
French	Fluent
Serbian	Intermediate
Swedish	Intermediate