

CURRICULUM VITAE

Kostyantyn Krutoy

March 2025



Personal details

Date of Birth	31 August 2000
Place of Birth	Chernihiv, Ukraine
Citizenship	Ukrainian
E-mail	krutoy@imj-prg.fr

Academic education

2024 -- ongoing	Ph.D. in Mathematics, under the supervision of Alessandro Vignati and Romain Tessera, Institut de Mathématiques de Jussieu-Paris Rive Gauche, Université Paris-Cité, Paris, France
2023 -- 2024	M2 in Mathematics, Mathématiques fondamentales, Université Paris Cité, Paris, France
2022 -- 2023	M1 in Mathematics, Mathématiques Fondamentales et Appliquées, Université Paris Cité, Paris, France
2021 -- 2023	M.Sc. in Mathematics, Department of Mathematics, Kyiv Academic University, Kyiv, Ukraine
2017 -- 2021	B.Sc. in Mathematics, Faculty of Mathematics and Mechanics, Taras Shevchenko National University of Kyiv, Ukraine

Awards

2023 -- 2024	Fondation Sciences Mathématiques de Paris (FSMP) scholarship
2022 -- 2023	SMARTS-UP mobility Université Paris Cité scholarship
2021	Bronze medal in International Mathematical Competition (IMC 2021 results)
2018	Bronze medal in Ukrainian National Mathematics Olympiad

Internships

2024	Coarse geometric modules and rigidity of Roe-like algebras, under the supervision of Alessandro Vignati, Université Paris Cité, Paris, France
2023	On Jiang-Su algebra, under the supervision of Alessandro Vignati, Université Paris Cité, Paris, France
2022	Introduction to K-theory, under the supervision of Georges Skandalis, Université Paris Cité, Paris, France
2021	Classification of enveloping C^* -algebras of $*$ -algebras allowing Wick ordering, under the supervision of Vasyl Ostrovskiy, The National Academy of Sciences of Ukraine, Kyiv, Ukraine

Publications / Preprints

- Kostyantyn Krutoy, Categorical approach to rigidity of Roe-like algebras of coarse spaces. 2025. [arXiv:2503.07398](https://arxiv.org/abs/2503.07398).
- Krutoi K.A., On the stability of deformations of Cuntz-Toeplitz algebras. *Ukrainian Math. J.* **73** (2021), 784--790.

Conference attendances

24 Mar -- 28 Mar 2025	Workshop: Rigidity of isometric actions, Centre International de Rencontres Mathématiques (CIRM), France. Conference webpage
6 Jan -- 10 Jan 2025	Methods in representation theory and operator algebras, Centre International de Rencontres Mathématiques (CIRM), France. Conference webpage
12 Dec -- 13 Dec 2024	Arbre de Noël 2024 en Géométrie Non Commutative, Institut Denis Poisson, Orléans, France. Conference webpage
1 Jul -- 4 Jul 2022	Operator algebras, dynamics and groups - an ICM satellite conference, University of Copenhagen, Denmark. Conference webpage
25 Jan -- 5 Feb 2021	Winter School & Workshop: Groups, invariants, integrals and moving frames Baltic Institute of Mathematics, Wisla, Poland. Winter school webpage
1 Aug -- 31 Aug 2019	Summer School on Geometry and Topology, University of Hradec Králové, Czech Republic. Summer school webpage

Teaching

19 Feb -- 28 May 2025	Exercise sessions on "Introduction to operator algebras" (M1 course), Kyiv Academic University, Kyiv, Ukraine.
-----------------------	---

Talks

28 Feb 2025	Ukrainian Math Day 2025 Evry Paris-Saclay Title: <i>Rigidity of uniform Roe algebras and Geometric Group Theory</i> Event webpage
-------------	--

21 Apr -- 23 Apr 2021	Shevchenkivska Vesna 2021, Taras Shevchenko National University of Kyiv. Title: <i>On stability of deformations of Cuntz -- Toeplitz algebras</i> , collection of abstracts (in Ukrainian) p. 21
-----------------------	---

Skills

Language skills	Ukrainian, English, French (niveau A2)
-----------------	--