

Curriculum Vitae: Yurii Khomskii

PERSONAL INFORMATION

Name: Yurii Daniilovich Khomskii
Titles: Dr., Privatdozent (Habilitation)
Date of Birth: 5 September 1980
Place of Birth: Moscow, Russia
Nationality: Dutch and Russian
Family situation: Married, two children
Languages: Fluent: English, Russian, German, Dutch, Bulgarian
Conversational: Hebrew
URL: <https://www.math.uni-hamburg.de/home/khomskii/>



EDUCATION

18.06.2003 Bachelor performing musician (piano)
Conservatorium Groningen, the Netherlands
18.04.2005 Bachelor Mathematics
University of Leiden
14.08.2007 Master of Logic (*cum laude*)
Institute of Logic, Language and Computation (ILLC)
University of Amsterdam, the Netherlands
Supervisor: Benedikt Löwe
10.02.2012 PhD
Institute of Logic, Language and Computation (ILLC)
University of Amsterdam, the Netherlands
Supervisor: Benedikt Löwe

CURRENT POSITION

01.02.2019 – 31.06.2020 Lecturer at Amsterdam University College (AUC), Amsterdam,
01.03.2019 – Permanent connection as *Privatdozent* to Hamburg University, Germany.

PREVIOUS POSITIONS

- 01.09.2007 – 15.02.2012 PhD candidate (*Promovendus*)
Institute of Logic, Language and Computation (ILLC)
University of Amsterdam, the Netherlands
- 01.09.2011 – 31.01.2012 Lecturer
Amsterdam University College (AUC)
- 01.03.2012 – 28.02.2015 Postdoctoral researcher
Kurt Gödel Research Center for Mathematical Logic (KGRC)
University of Vienna
- 01.03.2015 – 28.02.2017 Postdoctoral researcher (*Wissenschaftlicher Mitarbeiter*)
Hamburg University, Germany.
- 01.03.2017 – 28.02.2019 Marie Skłodowska-Curie fellow, Hamburg University, Germany.

FELLOWSHIPS AND AWARDS

- 01.09.2007 – 15.02.2012 Mosaic Award 2007: A grant for a four-year period of doctoral research, awarded by the Netherlands Organisation for Scientific Research (NWO), aimed at stimulating the participation of ethnic minorities in academic research.
- 01.03.2017 – 28.02.2019 Marie Skłodowska-Curie fellowship (University of Hamburg, Germany), project REGPROP.

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2017 – 2019 Co-supervision of 2 Master students in mathematics, University of Hamburg
- 2019 – 2020 Primary supervision of a Master student, ILLC, Universiteit van Amsterdam.

TEACHING EXPERIENCE

2007 – 2012	PhD Candidate, Amsterdam University (1 lecture “selected topics in set theory”; 6 classes as teaching assistant)
July 2010	Invited intensive course “Infinite Games”, Sofia University, Bulgaria
Fall 2011	Lecturer at Amsterdam University College (“Logic, Information Flow and Argumentation”)
June 2013	Invited lecturer on game theory at the HIM programme <i>Stochastic Dynamics in Economics and Finance</i> , Bonn, Germany (invitation by prof. Igor Evstigneev)
2012 – 2015	Postdoctoral Researcher, Vienna University (lecture “advanced set theory”)
2015 – 2016	Wissenschaftlicher Mitarbeiter, Hamburg University (lecture “Vertiefung Mengenlehre”; 4 classes as teaching assistant)
2017 – 2018	4 intensive projects in Set Theory, University of Amsterdam
2018 – 2020	Privatdozent, Hamburg University (lecture “Vertiefung Mengenlehre”; several “seminars” and “proseminars”)
2018 – 2020	Lecturer at Amsterdam University College (“Logic, Information, Argumentation”, “Calculus” and “Statistics for Sciences”)

ORGANISATION OF SCIENTIFIC MEETINGS

May 2009	<i>Amsterdam workshop in set theory</i> (main organizer)
June 2010	<i>Amsterdam workshop in set theory</i> (main organizer)
2009–2011	Seminar series <i>Logic Tea</i> , University of Amsterdam (one of three co-organizers)
September 2015	Set Theory Workshop at the <i>annual meeting of the Deutsche Mathematiker-Vereinigung (DMV)</i> , Hamburg, Germany (one of three co-organizers)
September 2016	<i>Colloquium Logicum</i> (bi-annual meeting of the German mathematical logic society DVMLG), Hamburg, Germany (one of two co-organizers)

INSTITUTIONAL RESPONSIBILITIES

2011	PhD hiring committee, University of Amsterdam
2013 – 2015	MSc Thesis committee service (6 students), University of Amsterdam
2015 – 2016	<i>Tag der Mathematik</i> , Hamburg University

SCIENTIFIC REFEREE FOR

- Journal of Symbolic Logic
- Proceedings of the American Mathematical Society
- Archives for Mathematical Logic

- Mathematical Logic Quarterly
- Journal of Applied Non-Classical Logics
- Journal of Dynamics and Games
- CIE 2012, Cambridge, England
- *Logic, Computation, Hierarchies*, volume 4 of *Ontos Mathematical Logic*, De Gruyter, (2014)
- *Outstanding Contributions to Logic: Jaakko Hintikka*, edited by G. Sandu and H. van Ditmarsch (Springer-Verlag).

SCIENTIFIC PUBLICATIONS

Peer-reviewed:

1. Yurii Khomskii, **William of Sherwood, singular propositions and the Hexagon of Opposition**, Jean-Yves Béziau and Gillman Payette (eds.), *New Perspectives on the Square of Opposition*, Peter Lang, Bern, 2010.
2. Yurii Khomskii, **A general setting for the pointwise investigation of determinacy**, *Proceedings of the Third Indian Conference on Logic and Applications*, (Eds.) R. Ramanujam and Sundar Sarukkai, Springer LNAI 5378, 2009. pp 187–197.
3. Jörg Brendle, Yurii Khomskii, **Polarized partitions on the second level of the projective hierarchy**, *Annals of Pure and Applied Logic* 163, 2012. pp 1345–1357. (DOI: 10.1016/j.apal.2012.03.003.)
4. Jörg Brendle, Yurii Khomskii, **Mad families constructed from perfect a.d. families**, *Journal of Symbolic Logic* 78 (4), 2014. pp. 1164–1180. (DOI: 10.2178/jsl.7804070).
5. Yurii Khomskii, **Projective Hausdorff gaps**, *Archive for Mathematical Logic* 53:1-2, 2014. pp 57–64.
6. Vera Fischer, Yurii Khomskii, Sy Friedman, **Co-analytic mad families and projective wellorders**, *Archive for Mathematical Logic* 52:7-8, 2013, pp 809–822.
7. Vera Fischer, Sy Friedman, Yurii Khomskii, **Cichoń’s diagram, regularity properties and Δ_3^1 sets of reals**, *Archive for Mathematical Logic* 53:5–6, 2014, pp 695–729.
8. Vera Fischer, Sy Friedman, Yurii Khomskii, **Measure, category and projective wellorders**, *Journal of Logic and Analysis* 6, Paper 8 (2014) (25 pp).
9. Sy Friedman, Yurii Khomskii, Vadim Kulikov, **Regularity properties on the generalised reals**, *Annals of Pure and Applied Logic* 167, 2016, pp 408–430.
10. Barnabas Farkas, Yurii Khomskii, Zoltán Vidyánszki, **Almost disjoint refinements and mixing reals**, *Fundamenta Mathematicae* 242 (2018), pp 25–48.
11. Yurii Khomskii, Giorgio Laguzzi, Benedikt Löwe, Ilya Sharankou, **Questions on Generalised Baire Spaces**, *Mathematical Logic Quarterly* 62:4-5, August 2016, pp 439–456.

12. Yurii Khomskii, Giorgio Laguzzi, **Full-splitting Miller trees and infinitely often equal reals**, *Annals of Pure and Applied Logic* 168:8, 2017, pp 1491-1506.
13. Jörg Brendle, Yurii Khomskii, Wolfgang Wohofsky, **Cofinalities of Marczewski ideals**, *Colloquium Mathematicum* 150 (2017), pp 269–279.
14. Yurii Khomskii, **Filter-Laver measurability**, *Topology and its Applications*, Volume 228 (2017), pp 208–221.
15. Jörg Brendle, Vera Fischer, Yurii Khomskii, **Definable maximal independent families**, *Proceedings of the AMS*, Volume 147: 8 (2019) pp 3547-3557.

Submitted:

16. Lorenzo Galeotti, Yurii Khomskii, Jouko Väänänen, **Bounded Symbiosis and Upwards Reflection**.

In preparation

17. Giorgio Laguzzi, Yurii Khomskii, Marlene Koelbing and Wolfgang Wohofsky, **Laver trees in the generalized Baire space**.
18. Yurii Khomskii, **Eventually different trees**.