

Curriculum Vitae and Publications



PERSONAL INFORMATION

Name: Yuri 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

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

CURRENT POSITION

From 01.03.2021 Lecturer and Tutor, Amsterdam University College (AUC), Amsterdam
From 01.03.2019 Permanent connection to Hamburg University as *Privatdozent*, Germany.

PREVIOUS POSITIONS

01.02.2019 – 28.02.2021	Lecturer at Amsterdam University College (AUC), Amsterdam,
01.03.2017 – 28.02.2019	Marie Skłodowska-Curie fellow, Hamburg University, Germany.
01.03.2015 – 28.02.2017	Postdoctoral researcher (<i>Wissenschaftlicher Mitarbeiter</i>) Hamburg University, Germany.
01.03.2012 – 28.02.2015	Postdoctoral researcher Kurt Gödel Research Center for Mathematical Logic (KGRC) University of Vienna
01.09.2011 – 31.01.2012	Lecturer Amsterdam University College (AUC)
01.09.2007 – 15.02.2012	PhD candidate (<i>Promovendus</i>) Institute of Logic, Language and Computation (ILLC) University of Amsterdam, the Netherlands

TEACHING EXPERIENCE

2018 –	Lecturer, AUC (teaching “Logic, Information, Argumentation”, “Mathematical Logic”, “Linear Algebra”, “Calculus”, “Calculus for Economics”, “Statistics for Sciences”).
2017 –	Guest teacher & researcher at the ILLC (coordinated projects and individual projects on advanced topics in logic and Set Theory), University of Amsterdam.
2018 –	Privatdozent, Hamburg University (lectures and coordinated seminars).
2015 – 2017	Wissenschaftlicher Mitarbeiter, Hamburg University (lecturing and assisting various mathematics courses)
2012 – 2015	Postdoctoral Researcher, Vienna University (lecture “advanced set theory”)
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)
Fall 2011	Lecturer, AUC (“Logic, Information Flow and Argumentation”)
July 2010	Invited intensive course “Infinite Games”, Sofia University, Bulgaria
2007 – 2012	Various teaching duties as <i>Promovedus</i> , UvA (1 lecture “selected topics in set theory”; 6 classes as teaching assistant)

STUDENT SUPERVISION

- Sophia Mexi-Jones (Capstone supervision, AUC, graduation June 2020)
- Hrafn Oddsson (MSc Thesis supervision, UvA, graduation on 16.04.2021)
- Jonathan Osinski (MSc Thesis supervision, UvA, graduation in September 2021)

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.

ORGANISATION OF SCIENTIFIC MEETINGS

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

INSTITUTIONAL RESPONSIBILITIES

2016 –	Serving as <i>Zweitgutachter</i> of several B.Sc. and M.Sc. Theses of students, Hamburg University
2015 – 2016	<i>Tag der Mathematik</i> , Hamburg University
2013 – 2015	Serving on the M.Sc. Thesis committee of several students, UvA
2011	PhD hiring committee, UvA

REVIEWING ACTIVITIES

I have refereed academic articles for the following journals, books or proceedings:

- *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).

PUBLICATIONS

Below is a list of all publications. All pre-prints or links to journals are available through my personal website: <https://www.math.uni-hamburg.de/home/khomskii/>.

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.
4. Jörg Brendle, Yurii Khomskii, **Mad families constructed from perfect a.d. families**, Journal of Symbolic Logic 78 (4), 2014. pp. 1164–1180.
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, 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, 147, 2019. pp 3547–3557
16. Giorgio Laguzzi, Yurii Khomskii, Marlene Koelbing and Wolfgang Wohofsky, **Laver trees in the generalized Baire space**, Israel Journal of Mathematics, to appear (preprint 2021).

Submitted:

17. Lorenzo Galeotti, Yurii Khomskii, Jouko Väänänen, **Symbiosis and Upwards Reflection**, submitted (preprint 2020).