# Curriculum Vitae

**Personal information**
**Name**: Krzysztof Krupiński
**Date and place of birth**: 15 May 1976, Wrocław, Poland
**Affiliation**: Mathematical Institute, University of Wrocław
Pl. Grunwaldzki 2, 50-384 Wrocław, Poland
**E-mail**: kkrup@math.uni.wroc.pl

**Employment**
**2019 -** : Full Professor
**2016-** : Professor
**2011-2016** : "Adiunkt" with habilitation (corresponds to Associate Professor) at the University of Wrocław
**2005-2011**: "Adiunkt" (corresponds to Assistant Professor) at the University of Wrocław
**2005-2008**: Visiting Assistant Professor (postdoc) at the University of Illinois at Urbana-Champaign
**2004-2005**: Assistant Professor (postdoc) in the Polish Academy of Sciences

**University Education/Scientific Degrees and Titles**
**2016**: Scientific title of professor (awarded by the President of Poland)
**2011**: Habilitation degree
**2004**: Ph.D. degree in mathematics; supervisor: Ludomir Newelski
**2000-2004**: Graduate studies in mathematics at the University of Wrocław
**2000**: Master of Science in theoretical mathematics
**1995-2000**: Undergraduate studies in theoretical mathematics at the University of Wrocław

**Awards and Scholarships**
**2024**: University of Wrocław Rector's Award for scientific achievements in 2023
**2023**: University of Wrocław Rector's Award for scientific achievements in 2022
**2021**: University of Wrocław Rector's Award for scientific achievements in 2020
**2021**: Award of the Mathematical Institute of the Polish Academy of Sciences for outstanding achievements in mathematics: "for developing a deep theory and obtaining breakthrough results connecting model theory with topological dynamics and descriptive set theory, in a series of papers published between 2010 and 2020"
**2020**: University of Wrocław Rector's Award for scientific achievements in 2019
**2018**: University of Wrocław Rector's Award for scientific achievements in 2017
**2013**: W. Sierpiński Award for a series of papers concerning model theory and its connections with algebra, topology and descriptive set theory awarded by the Third Department of the Polish Academy of Sciences
**2011**: University of Wrocław Rector's Award for scientific achievements in 2010
**2011**: Habilitation cum laude
**2010-2013**: Scholarship of the Polish Minister of Science and Higher Education for outstanding young scientists
**2008-2010**: Habilitation scholarship
**2007**: G. Białkowski Award for the best Ph.D. thesis in mathematics defended in Poland in years 2004-2006 awarded by the 'Towarzystwo Popierania i Krzewienia Nauk' (the society

supporting Polish science) and the Foundation for Polish Science

**2006**: K. Kuratowski Award for young mathematicians awarded by the Polish Mathematical Society and the Institute of Mathematics of the Polish Academy of Sciences

**2005**: Polish Education Minister's Award for Ph.D. thesis

**2005**: Scholarship of the Foundation for Polish Science for the best young scientists

**2004**: Ph.D. cum laude

**2004**: Stanisław Saks Scholarship for the best Ph.D. students awarded by the Wrocław Mathematicians' Foundation

**2003**: Scholarship of the Institute of Mathematics of the Polish Academy of Sciences for distinguished Ph.D. students

**2000**: Third prize in the J. Marcinkiewicz Competition for the best Master's thesis in Mathematics

**1997-2000**: Education Minister's scholarships for outstanding achievements in mathematical studies

**1996**: Scholarship of the Wrocław Mathematicians' Foundation

**1995**: "Primus Inter Pares Award" for special achievements in high school

**1995**: Silver medal in the competition for high school students for the best mathematical paper organized by the polish mathematical journal "Delta"

**1995**: Laureate in the 18th Austrian-Polish Mathematical Competition in Vienna

**1994**: Bronze medal in the 35th International Mathematical Olympiad in Hong-Kong

**1994, 1995**: Education Minister's scholarships for outstanding achievements in mathematics at school

**1993-1995**: Awards in the XLIV, XLV and XLVI Polish Mathematical Olympiad

**1992-1995**: Scholarship of the Polish Children's Found

**1991**: First award in the Mathematical Competition for primary schools

## Participation in grants

**2019-2023**: NCN (National Science Centre) grant 2018/31/B/ST1/00357; chair: P. Kowalski

**2017-2024**: NCN (National Science Centre) grant 2016/22/E/ST1/00450; chair: K. Krupiński

**2016-2019**: NCN (National Science Centre) grant 2015/19/B/ST1/01151; chair: K. Krupiński

**2013-2016**: NCN (National Science Centre) grant 2012/07/B/ST1/03513; chair: K. Krupiński

**2010-2013**: Polish Government grant N N201 545938; chair: L. Newelski

**2007-2010**: Visiting Fellow in the EPSRC grant EP/F009712/1; chair: A. Pillay

**2007-2010**: Polish Government grant N201 032/2231; chair: L. Newelski

**2006-2008**: Reduction of teaching duties during the postdoc at UIUC sponsored by the NSF grant DMS 0300639; chairs: A. Pillay and C. W. Henson

**2003-2004**: Grant from KBN (the Polish Government Committee for Scientific Research) for research on Ph.D. thesis; chair: L. Newelski

## Memberships and functions outside Uniwerystet Wrocławski

**2020 -** : Editor in "Archive for Mathematical Logic"

**2022 - 2023**: Membership in "Association for Symbolic Logic"

**2022**: Expert in the evaluation of the Polish scientific institutions

**2013 - 2017**: Member of the committee of the K. Kuratowski Award chosen by the Polish Mathematical Society

**Theses**

Groups and fields interpretable in rosy theories: Habilitation dissertation, 2010.
Profinite structures with various model theoretic properties: Ph.D. thesis, 2004.
Properties of minimal fields: Master's thesis, 2000.

**Publications**

**1.** *On bounded type-definable equivalence relations* (with L. Newelski), Notre Dame Journal of Formal Logic (43), 231-242, 2002.

**2.** *Products of finite abelian groups as profinite groups*, Journal of Algebra (288), 556-582, 2005.

**3.** *Abelian profinite groups*, Fundamenta Mathematicae (185), 41-59, 2005.

**4.** *A special thin type* (with T. Blossier), Illinois Journal of Mathematics (49), 281-290, 2005.

**5.** *Profinite structures interpretable in fields*, Annals of Pure and Applied Logic (142), 19-54, 2006.

**6.** *Small profinite groups and rings* (with F. Wagner), Journal of Algebra (306), 494-506, 2006.

**7.** *Superrosy dependent groups having finitely satisfiable generics* (with C. Ealy and A. Pillay), Annals of Pure and Applied Logic (151), 1-21, 2008.

**8.** *Fields interpretable in rosy theories*, Israel Journal of Mathematics (175), 421-444, 2010.

**9.** *Some model theory of Polish structures*, Transactions of the American Mathematical Society (362), 3499-3533, 2010.

**10.** *Fields interpretable in superrosy groups with NIP (the non-solvable case)*, Journal of Symbolic Logic (75), 372-386, 2010.

**11.** *Generalizations of small profinite structures*, Journal of Symbolic Logic (75), 1147-1175, 2010.

**12.** *On stable fields and weight* (with A. Pillay), Journal of the Institute of Mathematics of Jussieu (10), 349-358, 2011.

**13.** *On relationships between algebraic properties of groups and rings in some model-theoretic contexts*, Journal of Symbolic Logic (76), 1403-1417, 2011.

**14.** *On $\omega$-categorical groups and rings with NIP*, Proceedings of the American Mathematical Society (140), 2501-2512, 2012.

**15.** *On $\omega$-categorical, generically stable groups* (with J. Dobrowolski), Journal of Symbolic Logic (77), 1047-1056, 2012.

**16.** *On $\omega$-categorical, generically stable groups and rings* (with J. Dobrowolski), Annals of Pure and Applied Logic (164), 802-812, 2013.

**17.** *Small, nm-stable compact G-groups* (with F. Wagner), Israel Journal of Mathematics (194), 907-933, 2013.

**18.** *Around Podewski's conjecture* (with P. Tanović and F. Wagner), Fundamenta Mathematicae (222), 175-193, 2013.

**19.** *Borel equivalence relations and Lascar strong types* (with A. Pillay and S. Solecki), Journal of Mathematical Logic (13), 1350008 (37 pages), 2013.

**20.** *Locally finite profinite rings* (with J. Dobrowolski), Journal of Algebra (401), 161-178, 2014.

**21.** *On regular groups and fields* (with T. Gogacz), Journal of Symbolic Logic (79), 826-844, 2014..

**22.** *Superrosy fields and valuations*, Annals of Pure and Applied Logic (166), 342-357, 2015.

**23.** *On model-theoretic connected components in some group extensions* (with J. Gismatullin), Journal of Mathematical Logic (15), 1550009 (51 pages), 2015.

**24.** *Smoothness of bounded invariant equivalence relations* (with T. Rzepecki), Journal of Symbolic Logic (81), 326-356, 2016.

**25.** *Generalized Bohr compactification and model-theoretic connected components* (with A. Pillay), Mathematical Proceedings of the Cambridge Philosophical Society (163), 219-249, 2017.

**26.** *Definable topological dynamics*, Journal of Symbolic Logic (82), 1080-1105, 2017.

**27.** *Topological dynamics and the complexity of strong types*, (with A. Pillay and T. Rzepecki), Israel Journal of Mathematics (228), 863-932, 2018.

**28.** *Amenability, definable groups, and automorphism groups*, (with A. Pillay), Advances in Mathematics (345), 1253-1299, 2019.

**29.** *Boundedness and absoluteness of some dynamical invariants in model theory*, (with L. Newelski and P. Simon), Journal of Mathematical Logic (19), 1950012 (55 pages), 2019.

**30.** *Galois groups as quotients of Polish groups*, (with T. Rzepecki), Journal of Mathematical Logic (20), 2050018 (48 pages), 2020.

**31.** *Amenability and definability*, (with E. Hrushovski and A Pillay). This preprint is not meant to be published, as it has been divided (with some changes) into the next two papers.

**32.** *Amenability, connected components, and definable actions*, (with E. Hrushovski and A Pillay), Selecta Mathematica New Series (28), 16 (56 pages), 2022.

**33.** *On first order amenability*, (with E. Hrushovski and A Pillay), submitted (30 pages).

**34.** *On the topological dynamics of automorphism groups; a model-theoretic perspective*, (with A. Pillay), Archive for Mathematical Logic (62), 505529, 2023.

**35.** *Ramsey theory and topological dynamics for first order theories*, (with J. Lee and S. Moconja), Transactions of the American Mathematical Society (375), 2553-2596, 2022.

**36.** *Bohr compactifications of groups and rings*, (with J. Gismatullin and G. Jagiella), Journal of Symbolic Logic (88), 1103 - 1137, 2023.

**37.** *Generating ideals by additive subgroups of rings*, (with T. Rzepecki), Annals of Pure and Appplied Logic (173), 103119, 2022.

**38.** *Invariant measure in simple and in small theories*, (with A. Chernikov, E. Hrushovski, A. Kruckman, S. Moconja, A. Pillay, N. Ramsey), Journal of Mathematical Logic (23), 2250025 (37 pages), 2023.

**39.** *On stable quotients*, (with A. Portillo), Notre Dame Journal of Formal Logic (63), 373-394, 2022.

**40.** *Locally compact models for approximate rings*, Mathematische Annalen (389), 719-743, 2024.

**41.** *Maximal stable quotients of invariant types in NIP theories*, (with A. Portillo), Journal of Symbolic Logic, First View (2023), 1 - 25. DOI: https://doi.org/10.1017/jsl.2023.78

**42.** *Generalized locally compact models for approximate groups*, (with A. Pillay), submitted.

**43.** *Definable convolution and idempotent Keisler measures III. Generic stability, generic transitivity, and revised Newelski's conjecture*, (with A. Chernikov and K. Gannon), submitted.

## Work in progress
**1.** Topological dynamics and Ramsey theory in model theory and in a general abstract context (with J. Lee, S. Moconja).

**2.** Ramsey properties of amalgamation classes and of first order theories (with Nadav Meir).

**3.** Hrushovski's "Cores" of theories and their groups of automorphisms, Ellis groups, and variants.

**4.** Topological dynamics and definability patterns structures for measures (with D. Hoffmann).

**5.** Convolution product of invariant Keisler measures in NIP theories (with K. Gannon and D. Hoffmann).

**6.** Bohr compactifications of first order topological structures (with G. Jagiella).

**7.** Definable locally compact models of definable sets, in particular of approximate substructures, with applications to structural results (with M. Rzepecki).

**8.** Structural and classification results on approximate subrings (with S. Machado).

**9.** Maximal WAP and tame quotients of spaces of types (with. A. Portillo).

## Conferences and others

**a) Invited talks/participations**:

**2024**: Conference "Model Theory and Applications to Groups and Combinatorics", Luminy, France, 1 hour talk.

**2024**: Workshop "Aperiodic Order and Approximate Groups II", Karlsruhe, Germany, two 1 hour talks.

**2024**: "Beijing Model Theory Conference", Beijing, China, 1 hour talk.

**2024**: "Workshop on Descriptive Set Theory, Borel Combinatorics and Dynamics", Tianjin, China, 1 hour talk.

**2023**: "Model Theory Conference in Seoul", Seoul, South Korea,1 hour talk.

**2023**: Conference "Descriptive Set Theory and Dynamics", Warsaw, Poland, 1 hour talk.

**2023**: Conference "Antalya Algebra Days XXII", Sirince, Turkey, 1 hour talk.

**2023**: Workshop "Neostability", Banff, Canada, 1 hour talk.

**2023** Workshop "Model Theory: Combinatorics, Groups, Valued Fields and Neostability", Oberwolfach, Germany, 1 hour talk.

**2022**: "Model theory and applications 2022", Cetraro, Italy: 1 hour talk.

**2022**: On-line conference "Model Theoretic Logics and their Frontiers", Budapest, Hungary, 1 hour talk.

**2021**: On-line conference "Logic Colloquium 2021", Poznań, Poland, 3 hour tutorial "Topological dynamics in model theory".

**2020**: "British Postgraduate Model Theory Conference 2020", Leeds, UK, 1 hour talk.

**2020**: Workshop "Model Theory: Groups, Geometries and Combinatorics", Oberwolfach, 1 hour talk.

**2019**: "Chinese Annual Conference on Mathematical Logic", Chongqing, China, 1 hour talk.

**2019**: "Jubileuszowy zjazd PTM", Kraków, Poland, 30 minute talk in the session "Logika i informatyka teoretyczna".

**2019**: "Graduate students' workshop on algebra, logic and analysis", Szczecin, Poland, tutorial (2 x 60 minutes).

**2019**: Conference "VIG 2019: 50th anniversary of the 1967-68 UCLA Logic Year", Los Angeles, USA, 1 hour talk.

**2019**: "Workshop on NIP and groups", Leeds, UK, 1 hour talk.

**2018**: Conference "Logic and Algorithms in Group Theory", Bonn, 1 hour talk.

**2018**: Workshop "Neostability Theory", Oaxaca, Mexico, 1 hour talk.
**2018**: Conference "Regional Days in Model Theory and Applications", Muenster, 90 minute talk.
**2018**: Conference "Model Theory and Applications", Paris, 1 hour talk.
**2017**: Conference and workshop "Set theoretical and topological methods in model theory", Tezpur, India: tutorial (5 hours) "On topological dynamics in model theory".
**2017**: Workshop "Model theory and dynamics", Villa de Leyva, Colombia, 60 minute talk.
**2016**: "Thematic Program on Model Theory", Notre Dame, USA: mini-course (4 hours) "Topological Dynamics and Model Theory".
**2016**: Workshop "Model theory: groups, geometry, and combinatorics", Oberwolfach.
**2015**: Workshop "Neostability Theory", Oaxaca, Mexico, 45 minute talk.
**2014**: Conference "MidWest Model Theory Day", Chicago, USA, one-hour talk.
**2014**: Conference "Models and Groups III", Istanbul, Turcja, 75 minute talk.
**2014**: Classification Theory Workshop, Daejeon, South Korea, one-hour talk.
**2014**: Conference "Recent developments in the applications of model theory to algebraic, analytic and diophantine geometry", Edinburgh.
**2014**: ASL Annual Meeting, Boulder, Colorado: 40 minute talk during special session in model theory.
**2013**: Conference "Mostowski 100", Warszawa: one-hour talk.
**2013**: Conference " 5 Forum Matematyków Polskich", Rzeszów: plenary (45 minute) talk.
**2013**: Conference "The 9-th Intenational Algebraic Conference in Ukraine", Lviv: 45 minute talk.
**2013**: Workshop: "Model Theory: Groups, Geometry and Combinatorics", Oberwolfach: 30 minute talk.
**2012**: Conference "Antalya Algebra Days XIV", Cesme: one-hour talk.
**2012**: Workshop "Neostability Theorey", Banff: 45 minute talk.
**2011**: Mini-school in model theory, Turin: 40 minute talk.
**2010**: Workshop "Around Valued Fields and Dependent Theories", Oberwolfach: one-hour talk.
**2009**: Conference "Model Theory", Bedlewo: 30 minute talk.
**2009**: Conference "Logicum Urbanae Lugduni", Lyon: one-hour talk.
**2009**: Workshop "Stability Theoretic Methods in Unstable Theories", Banff.
**2008**: Logic Colloquium 2008, Bern: 45 minute talk during special session in model theory.
**2008**: Conference "Around Classification Theory", Leeds: one-hour talk.
**2008**: Logic Colloquium talk at UCLA, Los Angeles.
**2007**: Workshop "Model Theory and Groups", Oberwolfach: 30 minute talk.
**2006**: ASL Annual Meeting, Montreal: a talk during special session in model theory.

**b) Conferences with a contributed talk**: Logic Colloquium 2005 (Athens), Logic Colloquium 2004 (Torino), Logic Colloquium 2003 (Helsinki), "Groups and Group Rings" (Wisła 2003), Logic Colloquium 2002 (Muenster), "Simple Theories" (Marseille 2002), Logic Colloquium 2001 (Vienna).

**c) Conferences without a talk**: "Model Theory Conference in celebration of Ludomir Newelski's 60th birthday" (Bedlewo 2022), "Midwest Model Theory" (Chicago 2022), Conference "Practical and Structural Model Theory" (Leeds 2022), Workshop on Trends in Pure and Applied Model Theory (Toronto, 2021), Workshop "From Geometric Stability Theory to Tame Geometry" (Toronto, 2021), Conference "22nd Colloquiumfes" (Prague, 2019), Logic

Colloquium 2019 (Prague), Workshop "Model Theory and Combinatorics" (Paris 2018), Conference "Model theory" (Bedlewo 2017), Conference "Model theory in Wrocław 2017" (Wrocław 2017), Conference "When topological dynamics meets model theory" (Marseille 2015), Conference "Model theory in geometry and arithmetic" (Berkeley 2014), Conference "Model Theory 2013" (Ravello 2013), Conference "Model theory of groups (interactions between model theory and geometrical group theory)" (Luminy 2011), Logic Colloquium 2011 (Barcelona), Conference "Recent developments in model theory" (Oleron 2011), Logic Colloquium 2010 (Paris), "Model Theory in Wrocław" (Wrocław 2009), Final MODNET Conference (Barcelona 2008), Model Theory Midwest Meeting (Chicago 2008), "Logic and Mathematics" (Urbana 2008), Logic Colloquium 2007 (Wrocław), Model Theory Midwest Meeting (Columbus 2005), "Model Theory, Algebraic and Analytic Geometry" (Cambridge 2005), "Pure Model Theory" (Norwich 2005), "An Introduction to Recent Applications of Model Theory" (Cambridge 2005), "Algebra and Discrete Mathematics" (Hattingen 2003), "Arizona Winter School" (Tucson 2003) with participation in the project "Model Theory and Diophantine Geometry", "Model Theory and Its Applications" (Ravello 2002), Workshop on Model Theory (Barcelona 2001), Workshop on Model Theory and Tits Buildings (Wuerzburg 2000), Logic Colloquium 2000 (Paris).

**d) Longer (than 1 day) visits with one or more lectures in seminars**
**2024**: Four-day visit at the Fudan University (Shanghai) with one lecture and discussions with N. Yao.
**2024**: One-week visit at the Peking University with collaboration with K. Gannon.
**2024**: Ten-day visit at the University of Notre Dame with one lecture and collaboration with A. Pillay.
**2024**: Ten-day visit at ETH Zurich with one lecture and collaboration with S. Machado.
**2022**: Four-day visit at CUNY (New York) with one lecture.
**2022**: Four-day visit at the Cornell University with one lecture.
**2022**: Two one-week visits at the University of Notre Dame with one lecture and collaboration with A. Pillay.
**2019**: One-week visit at the Beijing Jiaotong University.
**2019**: One-week visit at the University of Notre Dame with one lecture and collaboration with A. Pillay.
**2018**: One-month participation in the trimester "Model Theory, Combinatorics and Valued fields" at the Institut Henri Poincaré in Paris.
**2017**: One-week visit at the University of Oxford with two lectures and collaboration with E. Hrushovski.
**2015**: Ten-day visit at the University of Notre Dame with one lecture and collaboration with A. Pillay.
**2015**: One-week visit at the University of Belgrade with one lecture and participation in the Ph.D. defense of Slavko Moconja as a referee.
**2015**: Three-day visit at the Université Lyon 1 with one lecture and participation as a referee in the Ph.D. defense of Adriane Kaïchouch.
**2015**: Three-day visit at the Universita degli Studi di Torino with one lecture.
**2015**: One-week visit at the Hebrew University of Jerusalem with one lecture there and one lecture at Ben-Gurion University of the Nagev in Beer Sheva, and collaboration with I. Kaplan.
**2015**: One-week visit at the University of Leeds with one lecture and cooperation with D. Macpherson.

**2014**: Ten-day visit at the University of Notre Dame with one lecture and collaboration with A. Pillay.

**2014**: Three-day visit at the University of Illinois at Urbana-Champaign with one lecture and collaboration with S. Solecki.

**2013**: Three-day visit at the University of Konstanz with one lecture and collaboration with S. Kuhlmann and K. Dupont.

**2011**: One-week visit at the Universita degli Studi di Torino with one lecture and collaboration with R. Camerlo.

**2010**: One-week visit at the University of Leeds with one lecture and cooperation with A. Pillay and D. Macpherson.

**2009**: One-week visit at the University of Leeds with one lecture and cooperation with A. Pillay.

**2008**: Two-week visit at the Université Lyon 1 with one lecture and cooperation with F. Wagner.

**2008**: Five-day visit at the Universita degli Studi di Torino with one lecture and collaboration with D. Zambella and R. Camerlo.

**2008**: Three-day visit at the University of Maryland at Collage Park with one lecture.

**2008**: One-week visit at the University of Leeds with one lecture and cooperation with A. Pillay.

**2007**: One-week visit at the University of California at Berkeley with two lectures.

**2004**: Two-month visit at the Université Lyon 1 with one lecture and cooperation with F. Wagner and T. Blossier.

**2003**: One-month visit at the University of Illinois at Urbana-Champaign with two lectures in Urbana and one lecture at the University of Illinois at Chicago.

**e) One-day visits with invited lectures in seminars**

**2024**: Logic Colloquium talk at the University of Vienna.

**2022**: Lecture at IM PAN as a laureate of the IM PAN award for outstanding achievements in mathematics received in 2021.

**2021**: On-line talk in the special session in honor of Predrag Tanović to celebrate his 60th birthday, Belgrade.

**2021**: On-line talks in the logic/model theory seminars at the Hebrew University of Jerusalem and in the joint Lyon-Paris seminar.

**2020**: On-line talk in the model theory seminar at the University of Notre Dame.

**2019**: University of Warsaw.

**2017**: Mathematical Institute of the Polish Academy of Sciences.

**2013**: Institut Henri Poincaré.

**2008**: University of Illinois at Chicago.

**2007**: University of Illinois at Chicago.

**2006**: University of Illinois at Chicago, University of Notre Dame, McMaster University.

**2005**: University of Wisconsin at Madison.

**f) Membership in program committees**

**2023**: Conference "Model Theory Conference", Wrocław.

**2023**: Workshop "Model Theory Workshop", Wrocław.

**2022**: Conference "Model Theory Conference in celebration of Ludomir Newelski's 60th birthday", Bedlewo.

**2019**: Conference "22nd Colloquiumfest", Prague, Czech Republic.

**2019**: "Jubileuszowy zjazd PTM", Kraków: organization of the session "Podstawy matematyki, teoria mnogości i topologia ogólna".
**2017**: Conference and workshop "Set theoretical and topological methods in model theory", Tezpur, India.
**2017**: Conference "Model theory", Bedlewo.
**2017**: Conference "Model theory in Wrocław 2017", Wrocław.

**g) Membership in organizing committees**
**2022**: Conference "Model Theory Conference in celebration of Ludomir Newelski's 60th birthday", Bedlewo.
**2019**: Conference "22nd Colloquiumfest", Prague, Czech Republic.
**2017**: Conference "Model theory", Bedlewo.
**2017**: Conference "Model theory in Wrocław 2017", Wrocław.
**2012**: Conference "Model Theory in Wrocław 2012", Wrocław.
**2009**: Conference "Model Theory", Bedlewo.
**2009**: Conference "Model Theory in Wrocław", Wrocław.
**2007**: Logic Colloquium 2007, Wrocław.

**h) Guests invited to Wrocław for collaboration or talks in seminars**
**2024**: Slavko Moconja (University of Belgrade).
**2023**: Anand Pillay and Nicholas Ramsey (University of Notre Dame): one-month visits in the Simons and IDUB (University of Warsaw) research semester "Structures: set theory, model theory, logic and computer science".
**2022**: Junguk Lee (Korea Institute for Advanced Study), Slavko Monconja (University of Belgrade).
**2019**: Anand Pillay (University of Notre Dame), Jana Marikova (Western Illinois University), Clifton Ealy (western Illinois University).
**2018**: Todor Tsankov (Université Paris Diderot), two visits of Anand Pillay (University of Notre Dame).
**2016**: Anand Pillay (University of Notre Dame), Shashi Srivastava (Indian Statistical Institute, Kolkata), Slavko Moconja (University of Belgrade), Pierre Simon (Université Lyon 1).
**2015**: Artem Chernikov (Université Paris Diderot - Paris 7), Dugald Macpherson (University of Leeds).
**2014**: Maciej Malicki (SGH in Warsaw), Anand Pillay (University of Notre Dame), Itay Kaplan (Hebrew University of Jerusalem), Dugald Macpherson (University of Leeds).
**2013**: Anand Pillay (University of Leeds), Predrag Tanović (Mathematical Institute SANU, Belgrade, Serbia).
**2011**: Anand Pillay (University of Leeds).
**2010**: Davide Penazzi (University of Leeds), Frank Wagner (Université Lyon 1).
**2009**: Itai Ben-Yaccov (Université Lyon 1).
**2008**: Anand Pillay (University of Leeds).

**Invited lectures for students or high-school students**
**2021**: Workshop (where I was a scientific chair and I delivered 8 hours of lectures entitled "On some connections of model theory and algebra", supported with 8 hours of discussion sessions by TA's) for scholars of the "Krajowy Fundusz na Rzecz Dzieci" (National Foundation for Children), Wrocław.

**2021**: Two-hour lecture in the the conference "Baby Steps Beyond the Horizon: Mathematics for Students", Bedlewo.
**2019**: Two-hour lecture in the the conference "Baby Horizons in Mathematics-school for students", Bedlewo.

## Interests

I am interested in both pure model theory and its connections and interactions with algebra, combinatorics, and topology. I am mostly experienced in:

**a)** topological dynamics and Ramsey theory in model theory,

**b)** bounded, invariant equivalence relations, in particular "spaces" of strong types , Galois groups of first order theories, model-theoretic connected components of groups,

**c)** measures in model theory,

**d)** stability theory and generalizations (so-called neostability), particularly groups and fields from this point of view,

**e)** $\omega$-categorical groups and rings,

**f)** minimal and quasi-minimal groups and fields

**g)** profinite structures (in particular, small profinite groups and rings in this context); and, more generally, Polish structures (in particular, small compact $G$-groups),

**e)** applications of model theory and topological dynamics to additive combinatorics (mainly to approximate subgroups and subrings).

## Teaching experience

Topic courses with discussion sessions (in Wrocław): Profinite structures, Stability theory (twice), Stable groups (twice), Simple theories, Theories with NIP, Topological dynamics in model theory.

Reading courses (in Wrocław): Theories with NIP.

Seminars: Seminar on the paper of Hrushovski and Loeser: *Non-Archimedean tame topology and stably dominated types*, Seminar on strong theories and NTP$_2$.

Other courses (in Wrocław and at UIUC): Abstract algebra, Linear algebra, Advanced calculus, Fundamental mathematics, Mathematical logic, Applied linear algebra.

Discussion sessions (in Wrocław): Introduction to mathematics, Algebra, Abstract algebra, Linear algebra, Model theory, Model theory of fields.

## Postdocs

**2020-2022**: Nadav Meir (Israel)
**2018-2020**: Junguk Lee (South Korea)
**2017-2019**: Slavko Moconja (Serbia)

## Ph.D. students

Adrian Portillo (Ph.D. degree received in 2024)
Jan Dobrowolski (Ph.D. degree received in 2015)
Tomasz Rzepecki (Ph.D. degree received in 2018)

## Former Master's students

Mateusz Rzepecki (graduated in 2024)
Urszula Dobrowolska (graduated in 2019)
Tomasz Rzepecki (graduated in 2014)
Jan Dobrowolski (graduated in 2011)

Tomasz Gogacz (graduated in 2011)

**Former Bachelor's students**
Alicja Kotyla (thesis completed in 2020)
Michał Szachniewicz (graduated in 2019)
Urszula Dobrowolska (graduated in 2018)

**Reports for promotions to the rank of "full professor" or in the procedures to get the title of professor**

- **2022**: Promotion of a candidate (whose identity must be classified) to the rank of full professor at the Hebrew University of Jerusalem.

- **Jacek Nikiel**: procedure to get the title of professor; report prepared in 2022.

**Refereed habilitations**

- **Ewa Rak**: habilitation procedure at the Silesian University, 2018. Title of the habilitation accomplishment: *Solutions of the distributivity and modularity equations for some classes of aggregation functions.*

- **Maciej Malicki**: habilitation in 2015 from the Polish Academy of Sciences. Title of the habilitation accomplishment: *Polish ultrametric spaces and their isomorphism groups.*

**Refereed Ph.D. dissertations**

- **Adriane Kaïchouh**: graduated in 2015 from Université Lyon 1, France under the supervision of prof. Itai Ben-Yaacov and prof. Julien Melleray, *Metric structures and their automorphism groups: reconstruction, homogeneity, amenability and automatic continuity.*

- **Slavko Moconja**: graduated in 2015 from the University of Belgrade, Serbia under the supervision of prof. Predrag Tanović, *Asymmetric regular types.*

**Refereeing or writing opinions for scientific journals (for some of them many times)**: Advances in Mathematics, Annals of Pure and Applied Logic, Archive for Mathematical Logic, Bulletin of the London Mathematical Society, Forum Mathematicum, Fundamenta Mathematicae, Journal of Mathematical Logic, Journal of Symbolic Logic, Journal of the American Mathematical Society, Journal of the European Mathematical Society, Journal of the Institute of Mathematics of Jussieu, Journal of the London Mathematical Society, Notre Dame Journal of Formal Logic, Proceedings of Logic Colloquium, Proceedings of the American Mathematical Society, Topology and its Applications, Transactions of the American Mathematical Society.