CURRICULUM VITAE

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Education

- 2008 Doctor of Philosophy in Mathematics, University of Illinois at Urbana-Champaign. Thesis advisor: Lou van den Dries.

- 2003 Master's degree in logic, Charles University in Prague, Faculty of Philosophy and Arts.

- 2000 Master's degree in education of mathematics and physics, Charles University in Prague, Faculty of Mathematics and Physics.

Employment

- University of Vienna: University Assistant (since July 2020), project team member *Mathematik macht Freu(n)de* (February-June 2021).

- Western Illinois University: Assistant Professor (2009-2016), Associate Professor (2016-2020).

- Fields-Ontario Postdoctoral Fellow (Thematic Program on o-minimal Structures and Real Analytic Geometry, host university: McMaster, supervisor: Patrick Speissegger): 2008-2009 and 2010-2011.

Publications and Preprints

1. *The Hausdorff dimension of metric spaces definable in o-minimal expansions of the real field*, Fund. Math., 265: 197-214, 2024. With E. Walsberg.

2. *On definable matchings in o-minimal bipartite graphs*, Fund. Math., 264: 85-102, 2024.

3. *Quantifier elimination for o-minimal structures expanded by a valuational cut*, Ann. Pure Appl. Log, 174 (2): 103206, 2023. With C. F. Ealy.

4. *Residue field domination in real closed valued fields*, Notre Dame J. Form. Log. 60 (3): 333-351, 2019. With C. F. Ealy and D. Haskell.

5. *Measuring definable sets in o-minimal structures*, Israel J. Math., 209 (2): 687–714, 2015. With M. Shiota.

6. *Model completeness of o-minimal fields with convex valuations*, J. Symb. Log. 80 (1): 234-250, 2015. With C. F. Ealy.

7. *O-minimal residue fields of o-minimal fields*, Ann. Pure Appl. Log., 162: 457-464, 2011.

8. *Triangulation in o-minimal fields with standard part map*, Fund. Math. 209 (2): 133-155, 2010. With L. van den Dries.

9. *O-minimal fields with standard part map*, Fund. Math. 209 (2): 115-132, 2010.

10. *The structure on the real field generated by the standard part map on an o-minimal expansion of a real closed field*, Israel J. Math., 171 (1): 175-195, 2009.

11. *Type-definable and invariant groups in o-minimal structures*, J. Symb. Logic, 72 (1): 67-80, 2007.

12. *Geometric properties of semilinear and semibounded sets*, Math. Log. Quart. 52 (2): 190-202, 2006.

Inivited talks - conferences

European Championship Model Theory Days, Passau, June 2024. Young Women in Model Theory and Applications, Bonn, March 2024. Model Theory Conference, Wroclaw, September 2023. DMV Annual Meeting 2022, Section on Mathematical Logic, Berlin, September 2022. Workshop: Practical and Structural Model Theory, Leeds, July 2022. Antalya Algebra Days XXI, Nesin Mathematics Village, May 2019. Invited address at ASL Winter Meeting (with JMM), Baltimore, Maryland, January 2019. Model Theory, Bedlewo, Poland, July 2017. Annual North American Meeting of the ASL, Special Session on Model Theory, University of Connecticut, Storrs, Connecticut, May 2016. Annual North American Meeting of the ASL, Special Session on Model Theory of Ordered Structures, University of Illinois at Urbana-Champaign, March 2015. AMS/MAA Joint Mathematics Meeting, Special Session on Model Theory and Applications, San Antonio, Texas, January 2015. 2014 CMS Winter Meeting, Special Session on Model Theory, Hamilton, Ontario, December 2014. 2nd Annual Midwest Women in Mathematics Symposium, University of Notre Dame, April 2014. ASL 2013 North American Annual Meeting, Special Session on Model Theory, Waterloo, May 2013. Model Theory in Wroclaw 2012, Mathematical Institute, University of Wroclaw, June 2012. AMS 2012 Spring Western Section Meeting #1078, University of Hawaii at Manoa, Honolulu, HI, March 2012. AWM Anniversary Conference "40 Years and Counting: AWM's Celebration of Women in Mathematics", Brown University, September 2011. O-minimal Structures and Real Analytic Geometry Retrospective Workshop, Fields Institute, August 2011. AMS Sectional Meeting #1057, Department of Mathematics University of Kentucky Lexington, March 2010. ASL North American Annual Meeting, The George Washington University Washington, D.C, March 2010. Model Theory, Mathematical Research and Conference Center, Bedlewo, Poland, August 2009. Urbana in Lyon, Institute Camille Jordan, Lyon, France, July 2009. Midwest Model Theory Meeting, University of Notre Dame, November 2008. AMS Eastern Sectional Meeting, Wesleyan University, Middletown, CT, October 2008. Bogota model theory meeting, Villa de Leyva, Colombia, July/August 2007. ASL annual meeting, Gainsville, Florida, March 2007. Around o-minimality, Leeds, Great Britain, March 2006.

INVITED TALKS - SEMINARS AND COLLOQUIA

Geometry and Model Theory Seminar, The Fields Institute, June 2022. Online Logic Seminar, SIU, November 2021. Model theory seminar of the MSRI DDC semester, December 2020. Midwest Model Theory seminar, September 2020. Model theory seminar, University of Wroclaw, November 2019. Research seminar, KGRC, November 2019. Logic colloquium, UCLA, June

2017. Logic colloquium, UC Berkeley, April 2017. Model theory seminar, CUNY Graduate Center, May 2016. Logic seminar, UIUC, February 2014. Logic seminar, OSU, April 2013. Logic seminar, UIUC, March 2013. Logic seminar, University of Notre Dame, October 2012. Analysis seminar, Western Ontario University, January 2011. Logic seminar, University of Waterloo, January 2011. Geometry and model theory seminar, Fields Institute, October 2010. Logic seminar, UIUC, December 2009. Logic colloquium, UCLA, May 2009. Logic seminar, Ohio State University, May 2008. Logic seminar, McMaster University, January 2008. Logic seminar, University of Notre Dame, March 2007. Model theory seminar, UIC, February 2007. Logic seminar, University of Wisconsin, April 2006. Model theory seminar, UIC, March 2006.

Teaching

- **University of Vienna:** Fundamentals of mathematical logic (SS 2022), Introduction to mathematical logic (WS 2021, SS 2023), Introduction to theoretical computer science (SS 2021, WS 2022, SS 2024) Grundzüge der mathematischen Logik (WS 2020) Mathematische Logik (WS 2023)

- **WIU:** Applied Calculus I (Math 137), Applied Linear Algebra and Finite Mathematics (Math 139), Introduction to Real Variables I (Math 435), Concepts of Mathematics (Math 101), Methods of Classical Analysis (Math 551), Calculus with Analytic Geometry (Math 133), Precalculus Algebra (Math 128), Discrete Mathematical Structures for Computer Science (Math 255), Abstract Algebra (Math 421), Elements of Modern Analysis (Math 651)

- **McMaster University:** Calculus for Science I (Math 1A03)

- **Others:** Presentation for WIU Math Club (April 2012). Judge at ICTM Regional Math Contest (February 2012, February 2013, February 2016). Grader at ICTM Regional Math Contest (February 2010, February 2018). Presentation at Girls Plus Math Camp (July 2011).

Service at WIU

Hallwas Lecture Committee (2017/18, 2018/19), Lower Division Curriculum Committee (2017/18, 2018/19), Graduate Committee (2012/13, 2015/16, 2018/19), Personnel Committee (2017/18, 2018/19) Chair Search Committee (2017/18), Colloquium Committee (2009/10, 2011/12 chair, 2015/16 chair, 2017/18 chair), Student Evaluation Ad Hoc Committee (2017/2018), CAS Faculty Council (2013/14, 2014/15 secretary, 2015/16 secretary), Council on International Education (2015/16), Advisory Council (2013/14, 2014/15), Search Committee (2013/14, 2014/15), Upper Division Curriculum Committee (2011/12, 2012/13, 2013/14, 2014/15), Grade Appeals Committee (2013/14 chair), Library Representative (2012/13)

Professional service

- Organizer: Special Session on Model Theory at ASL 2018 North American Annual Meeting, WIU, Macomb, IL. "Workshop on Model Theory: From Fields to Hardy Fields", August 2016. Special Session on Model Theory at ASL 2014 North American Annual Meeting, Boulder, Colorado. Member of Program Committee of ASL 2014 North American Annual Meeting, Boulder, Colorado. Organizer: AMS Special Session on Model Theory of Fields and Applications (MRC session) at 2011 Joint Mathematics Meeting, New Orleans.

- Referee: MLQ, AFML, NDJFL, JSL, Proc. Am. Math. Soc., Fundam. Math.

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- Reviewer for Mathematical Reviews.

- Reviewer for Simons Collaboration Grants.