

# Maxwell Levine

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## *Curriculum Vitæ*

### Education

2011–2017 **PhD, Mathematics**, *University of Illinois at Chicago, Chicago, IL.*

2006–2010 **BA, Mathematics with Honors**, *University of Chicago, Chicago, IL.*

### Experience

#### Academic Positions

2020–present **Scientific Assistant**, Albert-Ludwigs-Universität Freiburg.

2017–2020 **Postdoctoral Fellow**, Universität Wien.

#### Teaching

2021–2022 **Lecturer**, Albert-Ludwigs-Universität Freiburg.

Gave lectures courses in combinatorial forcing and in models of Peano arithmetic

2020–2022 **Seminar Supervisor**, Albert-Ludwigs-Universität Freiburg.

Assisted students with a seminar on Ramsey theory and another in knot theory

2020 **Proseminar Supervisor**, Universität Wien.

Graded for a class in model theory

2019 **Bachelor's Thesis Mentor**, Universität Wien.

Mentored a student for his bachelor's thesis on models of Peano arithmetic

2014, 2015 **Lecturer**, University of Illinois at Chicago.

Taught algebra at the Summer Enrichment Workshop and Calculus III

2011–2017 **Teaching Assistant**, University of Illinois at Chicago.

Taught introductory and intermediate algebra, linear algebra, first- and second-semester calculus, and calculus for business applications

#### Science Communication

2016 **Participant**, ComSciCon-Chicago.

#### Seminars and Conferences Organized

*Universität Freiburg, Mathematisches Institut – Ernst-Zermelo-Straße 1  
79104 Freiburg, Deutschland*

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🌐 <https://home.mathematik.uni-freiburg.de/maxwell/>

2015-2017 **Louise Hay Logic Seminar**, University of Illinois at Chicago.

2015 **Graduate Student Conference in Logic**, University of Illinois at Chicago.

## — Main Areas of Research

Mathematical logic, specifically set theory—especially questions around singular cardinals, large cardinals, and compactness principles.

## — Publications

- [1] Maxwell Levine and Heike Mildenberger. Distributivity and Minimality in Perfect Tree Forcings for Singular Cardinals. *Israel Journal of Mathematics*. To appear.
- [2] Thomas Gilton, Maxwell Levine, and Šárka Stejskalová. Trees and stationary reflection at double successors of regular cardinals. *Journal of Symbolic Logic*. To appear.
- [3] Sy-David Friedman and Maxwell Levine. Patterns of stationary reflection. *Israel Journal of Mathematics*. To appear.
- [4] Maxwell Levine and Dima Sinapova. Squares and uncountably singularized cardinals. *Fundamenta Mathematicae*. 253: 277-296, 2021. <https://doi.org/10.4064/fm955-9-2020>.
- [5] Maxwell Levine and Assaf Rinot. Partitioning a reflecting stationary set. *Proceedings of the American Mathematical Society*. 148(8): 3551-3565, 2020. <https://doi.org/10.1090/proc/14783>.
- [6] Maxwell Levine. The semi-weak square principle. *Annals of Pure and Applied Logic*. 170(11):8pp, 2019. doi: <https://doi.org/10.1016/j.apal.2019.06.002>.
- [7] Maxwell Levine. Stationary sets added when forcing squares. *Archive of Mathematical Logic*, 57(7):909–916, 2018. doi: <https://doi.org/10.1007/s00153-018-0613-8>.
- [8] Maxwell Levine. Weak squares and very good scales. *Journal of Symbolic Logic*, 83(1):1–12, 2018. doi: <https://doi.org/10.1017/jsl.2017.23>.

## — Additional Research Achievements

### Invited Talks

Sep 2022 **TBA**, Annual Meeting of the German Mathematical Society.  
Berlin, DE

- Apr 2020 **Patterns of Stationary Reflection**, CMU Math. Logic Seminar.  
Pittsburgh, USA
- Feb 2020 **Patterns of Stationary Reflection**, Univ. of Turin Math. Logic Seminar.  
Turin, IT
- Oct 2019 **Patterns of Stationary Reflection**, UIC Logic Seminar.  
Chicago, USA
- May 2019 **Partitioning Reflecting Stationary Sets**, Charles Univ. Set Theory Seminar.  
Prague, CZ
- Nov 2017 **Forcing Square Sequences**, KGRC Research Seminar.  
Vienna, AT
- Oct 2016 **Weak Squares and Very Good Scales**, UIC Set Theory Workshop.  
Chicago, USA
- Sep 2016 **Weak Squares and Very Good Scales**, UCI Logic Seminar.  
Irvine, USA
- Apr 2016 **Weak Squares and Very Good Scales**, UIC Logic Seminar.  
Chicago, USA

#### [Recent Contributed Talks](#)

- Sep 2021 **On the Distributivity of Perfect Tree Forcings for Singular Cardinals**,  
DMV-ÖMG Annual Conference.  
Passau, DE
- Jun 2021 **Patterns of Stationary Reflection**, Boise Extravaganza in Set Theory.  
Boise, USA
- Sep 2019 **Patterns of Stationary Reflection**, Set-Theoretic Methods.  
Košice, SK
- Aug 2019 **Squares and Singularized Cardinals**, 2019 Logic Colloquium.  
Prague, CZ
- Jul 2019 **Partitioning Reflecting Stationary Sets**, European Conf. in Set Theory.  
Vienna, AT
- Feb 2018 **Forcing Square Sequences**, Winter School in Abstract Analysis.  
Hejnice, CZ