

Hunter Chase

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Education

Ph.D. Mathematics (in progress), University of Illinois at Chicago, expected May 2020.

Advisor: James Freitag.

M.S. Mathematics, University of Illinois at Chicago, 2016.

B.S. Mathematics, The University of Chicago, 2014.

Publications

Model theory and machine learning, with J. Freitag. *Bulletin of Symbolic Logic*, 25(3): 319–332, 2019.
DOI: [10.1017/bsl.2018.71](https://doi.org/10.1017/bsl.2018.71)

Preprints

Bounds in query learning, with J. Freitag. *arXiv preprint arXiv:1904.10122*, 2019.

Model theory and combinatorics of banned sequences, with J. Freitag. *arXiv preprint arXiv:1801.07640*, 2018. Accepted, *Journal of Symbolic Logic*.

Invited Talks

Special Session on Model Theory and its Applications, American Mathematical Society Spring Central Sectional Meeting, Purdue University, West Lafayette, IN. April 2020.

Special Session on Model Theory, Association for Symbolic Logic North American Annual Meeting, University of California, Irvine, CA. March 2020.

Logic Seminar, University of Illinois at Urbana–Champaign, Urbana, IL. February 2020.

Logic Seminar, The Ohio State University, Columbus, OH. January 2020.

Langenhop Lecture and SIU Pure Mathematics Conference, Southern Illinois University, Carbondale, IL. May 2019.

Mathematical Computer Science Seminar, University of Illinois at Chicago, IL. March 2019.

Neostability Theory, Casa Matemática Oaxaca, Oaxaca, Mexico. October 2018.

Special Session on Model Theory, Association for Symbolic Logic North American Annual Meeting, Western Illinois University, Macomb, IL. May 2018.

Logic Seminar, University of Maryland, College Park, MD. April 2018.

Contributed Talks

Association for Symbolic Logic North American Annual Meeting, CUNY Graduate Center, New York, NY. May 2019.

Awards and Honors

Provost/Deiss Award for Graduate Research. University of Illinois at Chicago, 2018–2019.

Research and Training Grant Pre-doctoral Fellow. University of Illinois at Chicago, 2014–2015, 2018–2020.

Student Marshal. The University of Chicago, 2013–2014.

Service

Co-organizer, 20th Graduate Student Conference in Logic. University of Illinois at Chicago, IL. April 2019.

Co-organizer, Louise Hay Logic Seminar. University of Illinois at Chicago, IL. 2017–2019.

Conferences and Workshops

American Mathematical Society Spring Central Sectional Meeting, Purdue University, West Lafayette, IN. April 2020, to attend.

Association for Symbolic Logic North American Annual Meeting, University of California, Irvine, CA. March 2020, to attend.

American Mathematical Society Fall Central Sectional Meeting, University of Wisconsin–Madison, WI. September 2019.

Workshop on Recent Applications of Model Theory, The Fields Institute, Toronto, Canada. July 2019.

Model Theory and Mathematical Logic, University of Maryland, College Park, MD. June 2019.

Logic Fest in the Windy City, University of Illinois at Chicago, IL. May–June 2019.

Association for Symbolic Logic North American Annual Meeting, CUNY Graduate Center, New York, NY. May 2019.

Langenhop Lecture and SIU Pure Mathematics Conference, Southern Illinois University, Carbondale, IL. May 2019.

Algorithmic Learning Theory 2019, Chicago, IL. March 2019.

Pure and Applied Model Theory, University of Illinois at Chicago, IL. October 2018.

Neostability Theory, Casa Matemática Oaxaca, Oaxaca, Mexico. October 2018.

From Permutation Groups to Model Theory, International Centre for Mathematical Sciences, Edinburgh, United Kingdom. September 2018

Association for Symbolic Logic North American Annual Meeting, Western Illinois University, Macomb, IL. May 2018.

Model Theory and Combinatorics, Institut Henri Poincaré, Paris, France. January–February 2018.

Very Informal Gathering of Logicians 2017, UCLA, Los Angeles, CA. February 2017.

Teaching

University of Illinois at Chicago

Teaching Assistant, 2015–2019.

Precalculus (Math 121). 3 semesters.

Calculus for Business (Math 165). 1 semester.

Calculus I (Math 180). 2 semesters.

Calculus II (Math 181). 1 semester.

Analysis I/Topics in Teaching Secondary Mathematics (Math 313/Mtht 490). 1 semester.

Introduction to Statistics (Stat 101). 2 semesters.

Grader, 2017.

Complex Analysis with Applications (Math 417). 1 semester

The University of Chicago

Teaching Assistant, 2013–2014

Introduction to Quantitative Modeling in Biology (Bios 20152). 1 quarter.

Mathematical Methods for Biological Sciences II (Bios 26211). 1 quarter.

Grader, 2013–2014

Mathematical Methods for Social Sciences (Math 19520). 1 quarter.

Linear Algebra (Math 19620). 1 quarter.

Introduction to Analysis and Linear Algebra (Math 19900). 1 quarter.

Counselor, Summer 2013

Young Scholars Program and Seminars for the Endorsement of Science and Mathematics Educators.