

Caroline Terry

University of Maryland, College Park

Kirwan Hall 4305
College Park, MD
20742-4015
cterry@umd.edu
math.umd.edu/
~cterry

Employment

2016-present **Brin Postdoctoral Fellow**, *University of Maryland (UMD)*, College Park, MD.

Visiting Positions

Spring 2017 **Research Fellow**, *Semester Program on Pseudorandomness*, Simons Institute for the Theory of Computing, Berkeley, CA.

Spring 2014 **Program Associate**, *Semester Program on Model Theory, Arithmetic Geometry and Number Theory*, Mathematical Sciences Research Institute, Berkeley, CA.

Education

2012-2016 **Ph.D. in Pure Mathematics**, *University of Illinois Chicago (UIC)*, Chicago, IL.
advisors: David Marker and Dhruv Mubayi

2010 - 2012 **MS in Pure Mathematics**, *UIC*, Chicago, IL.

2006 - 2010 **BS in Mathematics**, *University of Chicago*, Chicago, IL.

Research Interests

Model theory, extremal combinatorics, graph theory, additive combinatorics.

Papers: in print or accepted

Model theoretic properties of the Urysohn sphere, with G. Conant, *Annals of Pure and Applied Logic*, 167, (2016), no. 1, 49-72.

Discrete metric spaces: structure, enumeration, and 0-1 laws, *arXiv:1502.01212v2*, with D. Mubayi, accepted, *Journal of Symbolic Logic*.

On unavoidable induced subgraphs in large prime graphs, with M. Malliaris, *Journal of Graph Theory*, <http://dx.doi.org/10.1002/jgt.22209>.

VC_ℓ -dimension and the jump to the fastest speed of a hereditary property, *arXiv:1701.00470*, to appear, *Proceedings of the AMS*.

Structure and enumeration theorems for hereditary properties in finite relational languages, *Annals of Pure and Applied Logic*, <https://doi.org/10.1016/j.apal.2018.01.002>.

An extremal graph problem with a transcendental solution, *arXiv:1607.07742*, with D. Mubayi, accepted, *Combinatorics, Probability, and Computing*.

Preprints

Extremal theory of locally sparse multigraphs, *arXiv:1608.08948*, with D. Mubayi, submitted.

Stable arithmetic regularity in the finite-field model, *arXiv:1710.02021*, with J. Wolf.

A group version of stable regularity, *arXiv:1710.06309*, with G. Conant and A. Pillay.

Selected Invited Talks

- Feb. 2018 **Model Theory and Combinatorics Workshop**, *IHP*, Paris, France.
- October 2017 **Midwest Model Theory Day**, *UIC*, Chicago, IL.
- May 2017 **Recent Advances in Extremal Combinatorics Workshop**, *Tsinghua Sanya International Mathematics Forum*, Sanya, China.
- March 2017 **Logic Colloquium**, *University of California*, Berkeley, CA.
- March 2017 **Association for Symbolic Logic Meeting**, *plenary speaker*, Boise, ID.
- July 2016 **Logic Colloquium 2016: special session on model theory and limit structures**, *Leeds*, UK.
- Nov. 2015 **Homogeneous Structures Workshop**, *Banff International Research Station*, Banff, AB.
- Oct. 2015 **AMS Central Fall Sectional Meeting 2015: special session in model theory**, *Loyola University*, Chicago, IL.
- Oct. 2015 **AMS Central Fall Sectional Meeting 2015: special session on topics in graph theory, hypergraphs and set systems**, *Loyola University*, Chicago, IL.
- August 2015 **Logic and Random Graphs**, *Lorentz Center*, Leiden, Netherlands.

Teaching Experience

Lecturer

- Spring 2018 **Math 446: Axiomatic Set Theory**, *UMD*, College Park, MD.
- Fall 2016,2017 **Math 445: Introduction to Math Logic**, *UMD*, College Park, MD.
- Fall 2013 **Math 210: Calculus 3**, *UIC*, Chicago, IL.
- Summer 2012, 2013 **Math 090: Intermediate Algebra**, *UIC*, Chicago, IL.

Teaching Assistant

- 2015 **Math 075: Beginning Algebra**, *UIC*, Chicago, IL.
- 2012,2014 **Math 180: Calculus I**, *UIC*, Chicago, IL.
- 2012,2013 **Math 181: Calculus II**, *UIC*, Chicago, IL.
- 2011 **Math 165: Business Calculus**, *UIC*, Chicago, IL.
- 2011,2016 **Math 417: Complex Analysis and Applications**, *UIC*, Chicago, IL.
- 2011 **Math 090: Intermediate Algebra**, *UIC*, Chicago, IL.
- 2010 **Math 210: Calculus III**, *University of Chicago*, Chicago, IL.
- 2008-2010 **Math 131-132: Elementary Functions and Calculus I-II**, *University of Chicago*, Chicago, IL.
- 2009 **Algebra I**, *SESAME program*, *University of Chicago*, Chicago, IL.
TA-ed course for Chicago Public School teachers aimed at certifying them to teach high school algebra.

Awards

- Spring 2015 **Louise Hay Award**, *UIC*, Chicago, IL.
Awarded to a math graduate student for academic excellence.
- 2014, 2015 **Research Training Grant Pre-doctoral Fellow**, *UIC*, Chicago, IL.
- 2006-2010 **Deans List**, *University of Chicago*, Chicago, IL.
- 2010 **Graduated with General Honors**, *University of Chicago*, Chicago, IL.

Service

- 2016-present **Organizer of University of Maryland Logic Seminar**, *UMD*, College Park, MD.

- 2012-2016 **Coorganizer, UIC Chapter of Association for Women in Mathematics**, Chicago, IL.
Organized events including the following (see www.math.uic.edu/AWM for more).
- 2013-2016 **Coorganizer of the Louise Hay Logic Seminar**, *UIC*, Chicago, IL.
- 2014-2015 **Coorganizer of Graduate Combinatorics Seminar**, *UIC*, Chicago, IL.
- Spring 2014 **Coorganizer of Finite Structures Seminar**, *MSRI*, Berkeley, CA.
- 2012-2013 **Copresident of the Mathematics Graduate Student Organization**, *UIC*, Chicago, IL.