

Caroline Terry

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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

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

On unavoidable induced subgraphs in large prime graphs, *arXiv:1511.02544*, with M. Malliaris, accepted pending revisions, Journal of Graph Theory.

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

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

Preprints

Structure and enumeration theorems for hereditary properties in finite relational languages, *arXiv:1607.04902*, submitted.

An extremal graph problem with a transcendental solution, *arXiv:1607.07742*, with D. Mubayi, submitted.

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.

Selected Invited Talks

- 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.
- July 2016 **Model theory of finite and pseudofinite structures workshop**, *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.

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).