Caroline Terry

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Employment

2016-2019 **Brin Postdoctoral Fellow**, *University of Maryland, College Park*, College Park, MD.

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

Interactions between model theory and finite combinatorics, logical 0-1 laws, extremal combinatorics, finite Ramsey theory.

Papers and Preprints

Model theoretic properties of the Urysohn sphere, *with G. Conant*, Annals of Pure and Applied Logic, 167, (2016), no. 1, 49-72.
URL: http://www.sciencedirect.com/science/article/pii/S0168007215000986

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, *arXiv:1511.02544*, with M. Malliaris, submitted.

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.

Awards

Spring 2015 **Louise Hay Award**, *UIC*, Chicago, IL.
Awarded to a math graduate student for academic excellence.

Spring 2014, Sum. 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.

Semesters

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

Conference Talks

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.
May 2016	**SIU Mathematics Conference**, *Southern Illinois University*, Carbondale, IL.
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.
August 2015	**Logic Colloquium 2015**, *University of Helsinki*, Helsinki, Finland.
July 2015	**Random Structures and Algorithms**, *Carnegie Melon University*, Pittsburgh, PA.
March 2015	**Lake Michigan Combinatorics Workshop**, *Notre Dame University*, Notre Dame, IN.
March 2015	**Midwest Women in Mathematics Symposium**, *Dominican University*, Chicago, IL.

Seminar Talks

Dec. 2015	**Model Theory Seminar**, *CUNY*, New York, NY.
Dec. 2015	**Logic Seminar**, *Harvard University*, Cambridge, MA.
Dec. 2015	**Connecticut Logic Seminar**, *Wesleyan University*, Middleton, CT.
Nov. 2015	**Algorithms, Combinatorics, and Optimization Seminar**, *Carnegie Mellon University*, Pittsburgh, PA.
Oct. 2015	**Logic Seminar**, *The Ohio State University*, Columbus, OH.
Oct. 2015	**Logic Seminar**, *McMaster University*, Hamilton, ON, Canada.
Oct. 2015	**Logic Seminar**, *University of Illinois Urbana-Champaign (UIUC)*, Urbana, IL.
Oct. 2015	**Logic Seminar**, *UIC*, Chicago, IL.
Sept. 2015	**Model theory seminar**, *University of Notre Dame*, Notre Dame, IN.
May 2015	**Graph Theory Seminar**, *UIUC*, Urbana, IL.
Feb. 2014	**Model Theory Seminar**, *University of California at Berkeley*, Berkeley, CA.
Sept. 2013	**Logic Seminar**, *UIC*, Chicago, IL.

Service

2012-present	**Coorganizer, UIC Chapter of Association for Women in Mathematics**, Chicago, IL. Organized events including the following (see www.math.uic.edu/AWM for more). •*Women in mathematics: reflections and history from female mathematicians.* Panel for university community consisting of prominent women mathematicians and historians of women in math. •*Finding pioneering women in American mathematics: the why, the how, and the what.* Lecture for math department at UIC by historian Jeanne LaDuke.

2013-present	**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. Organized weekly departmental tea and social events for graduate students

Teaching Experience

Lecturer

Fall 2013	**Math 210: Calculus 3**, *UIC*, Chicago, IL.
Summers 2012, 2013	**Math 090: Intermediate Algebra**, *UIC*, Chicago, IL.

As part of Summer Enrichment Workshop, a program for incoming freshman to take free math classes the summer before starting college.

Teaching Assistant

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

Workshops and Conferences

Nov. 2015	**Homogeneous Structures Workshop**, *Banff International Research Station*, Banff, AB.
Oct. 2015	**AMS Central Fall Sectional Meeting**, *Loyola University*, Chicago, IL.
Sept. 2015	**Logic and Random Graphs**, *Lorentz Center*, Leiden, Netherlands.
Aug. 2015	**Logic Colloquium**, *University of Helsinki*, Helsinki, Finland.
July 2015	**Random Structures and Algorithms**, *Carnegie Melon University*, Pittsburgh, PA.
June 2015	**CanaDAM**, *University of Saskatchewan*, Saskatoon, SK.
Spring 2015	**Midwest Women in Mathematics Symposium**, *Dominican University*, Chicago, IL.
Spring 2015	**Lake Michigan Combinatorics Workshop**, *Notre Dame University*, Notre Dame, IN.
Fall 2014	**Association for Symbolic Logic Winter Meeting (with Joint Math Meeting)**, San Antonio, TX.

May 2014	**Model Theory in Geometry and Arithmetic**, *MSRI*, Berkeley, CA.
Feb. 2014	**Connections for Women: Model Theory, Arithmetic Geometry, and Number Theory**, *MSRI*, Berkeley, CA.
Feb. 2014	**Introductory Workshop: Model Theory, Arithmetic Geometry, and Number Theory**, *MSRI*, Berkeley, CA.
Oct. 2013	**Differential Algebra Day**, *Notre Dame University*, Notre Dame, IN.
Oct. 2013	**Workshop on Homogeneous Structures**, *Hausdorff Institute*, Bonn, Germany.
June 2013	**Model Theory Meeting**, Ravello, Italy.
May 2013	**Carol Wood Retirement Conference**, *Wesleyan University*, Middletown, CT.
July 2012	**Summer Graduate School - Model Theory**, *MSRI*, Berkeley, CA.
April 2012	**Association for Symbolic Logic Meeting**, *University of Wisconsin*, Madison, WI.
Oct. 2011	**Mid-Atlantic Mathematical Logic Conference**, *Rutgers University*, Piscataway, NJ.
Sept. 2011	**Ward Henson Retirement Conference**, *UIUC*, Urbana, IL.
Sum. 2009	**Research Experience for Undergraduates**, *University of Chicago*, Chicago, IL.
Sum. 2008	**Research Experience for Undergraduates**, *University of Chicago*, Chicago, IL.