

Kaethe Minden

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Mathematics Department
The Graduate Center of CUNY
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EDUCATION

PhD in Mathematics, 2017 (expected)
The Graduate Center of the City University of New York
Thesis advisor: Gunter Fuchs
Subject: Set Theory; Large Cardinals and Forcing

Bachelor of Science in Mathematics, 2010
University of California, Los Angeles

PUBLICATIONS

- [1] Gunter Fuchs and Kaethe Minden. Preservation properties of subcomplete forcing. In preparation, 2017.
- [2] Gunter Fuchs and Kaethe Minden. Split principles, large cardinals, splitting families and split ideals. Submitted, available at <https://arxiv.org/abs/1702.07041>, 2017.
- [3] Kaethe Minden. *On Subcomplete Forcing*. PhD thesis, The Graduate Center of the City University of New York, 2017.

TEACHING EXPERIENCE

The City University of New York

- Baruch College
Graduate Teaching Fellow Fall 2011 – Spring 2014, Fall 2016 – Spring 2017
For four years, I have enjoyed being the full instructor for one to two algebra, pre-calculus and calculus courses per semester.
- Lehman College
Quantitative Reasoning Fellow Fall 2014 – Spring 2016
I coordinated faculty and student workshops incorporating mathematics into other disciplines, and alleviating math anxiety.

University of California, Los Angeles

- Grader for Undergraduate Mathematics Courses Fall 2008 – Spring 2010
I graded homework assignments for various undergraduate finite mathematics, calculus, and probability courses.
- Undergraduate Teaching Assistant Fall 2007 – Spring 2010
I worked as a teaching assistant for the Logic — First and Second Courses, a course which served as a mathematics requirement for UCLA undergraduate students.

GRANT FUNDED RESEARCH ACTIVITIES

Enhanced Chancellor's Fellowship Award Fall 2010 – Spring 2015
The Graduate Center of CUNY

National Science Foundation REU Summer 2009
University of California, Los Angeles
Subject: Algorithms
Advisor: David Gieseke, UCLA

RESEARCH PRESENTATIONS	<ul style="list-style-type: none"> • Joint Mathematics Meetings · <i>Split Principles</i> January 2017 • Boise Extravaganza in Set Theory (BEST) June 2016 · <i>Subcomplete Forcing and Trees</i> • New York Graduate Student Logic Conference, funded by MAMLS May 2016 · <i>Subcomplete Forcing</i> • Set Theory Seminar, The Graduate Center, CUNY <ul style="list-style-type: none"> · <i>Why is Prikry forcing subcomplete?</i> February 2016 · <i>Subcomplete Forcings</i> November 2015 · <i>Split Principles</i> May 2015 · <i>A proof of the relative consistency of PFA</i> March 2014 · <i>Ramsey ultrafilters</i> March 2013 · <i>The strength of \negKH</i> November 2012 · <i>Consistency and applications of \diamond</i> March 2012 • Student Set Theory Seminar, The Graduate Center, CUNY <ul style="list-style-type: none"> · Lecture series on <i>Whitehead's Conjecture</i> Fall 2016 (With A. van Abel, M. Habič, C. Switzer, and K. Williams) · Lecture series on <i>Jensen's Covering Lemma</i> Spring 2016 (With M. Habič and K. Williams) · <i>Namba forcing and regressive Kurepa trees</i> November 2015 · Lecture series on MM Fall 2015 (With M. Habič and K. Williams) · <i>Variants of the Split Principle</i> May 2015 · <i>An incomplete intro to subcomplete forcing</i> April 2015 · <i>The Split Principle</i> February 2015 · <i>Using weak square to build an Aronszajn tree</i> December 2014 · <i>Forcing BPFA with a reflecting cardinal</i> November 2014 · <i>Applying PFA Coherently Stationarily Often</i> October 2014
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CONFERENCES ATTENDED *In addition to my above talks, it was my pleasure to receive travel support to attend and participate in the following conferences and workshops.*

- Set theory workshop; University of Illinois, Chicago October 2016
- The 19th Midrasha Mathematicae (“Young Set Theory Workshop”) October 2015
Israel Institute for Advanced Studies
 · *Compactness, Incompactness, and Canonical Structures*
- Graduate Summer School in Set Theory Summer 2015
University of California, Irvine
 · *Forcing and Large Cardinals*
- The Rutgers Logic Meeting, MAMLS, Rutgers University October 2014
- Association for Symbolic Logic North American Annual Meeting May 2013
University of Waterloo
- Appalachian set theory workshop, Cornell University April 2012
 · Hugh Woodin: *The HOD dichotomy*

PROFESSIONAL EXPERIENCE **CUNY Student Set Theory Seminar**
Coorganizer and founder (with Miha Habič) Fall 2013 – present

CUNY Chapter of the of the Association for Women in Mathematics
Vice President Fall 2016 – Spring 2017