

Vincent Kieftenbeld

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Citizenship: The Netherlands

Education

Ph.D. in mathematics with a minor in curriculum & instruction, University of North Texas, graduating in May 2010

Major advisors: Su Gao & Steve Jackson

Minor advisor: Colleen Eddy

M.Sc. in teaching mathematics, Universiteit van Amsterdam, August 2005

M.Sc. in mathematics, Universiteit van Amsterdam, June 2005

Professional Experience

Teaching assistant, Teach North Texas, University of North Texas teacher certification program for math and science majors, Fall 2009 – Spring 2010

Guided pre-service teachers in designing 5E lesson plans, observed these elementary and middle school math and science lessons, and provided feedback to the student teachers.

Graduate assistant, XTreem Geometry professional development program for in-service secondary mathematics teachers, Summer 2009 – 2010

Designed researched-based geometry curriculum, taught geometry to in-service math teachers, observed teachers to evaluate effectiveness of the professional development program.

Teaching fellow, Department of Mathematics, University of North Texas, Fall 2005 – Spring 2009

Instructor for business calculus (2 sections), college mathematics (1 larger section), mathematics for elementary education (5 sections), precalculus (1 larger section), elementary probability and statistics (2 sections). Teaching assistant for pre-calculus (2 sections) and multi-variable calculus (1 section).

Middle and high school mathematics teacher, Montessori Lyceum Amsterdam, The Netherlands, May 2003 – February 2005

Refereed Publications

Su Gao, Steve Jackson, and Vincent Kieftenbeld, A classification of ordinals up to Borel isomorphism. *Fundamenta Mathematicae*, vol. 198, no. 1, 2008, 61 – 76.

Su Gao and Vincent Kieftenbeld, Resolvable maps preserve complete metrizability, to appear in the *Proceedings of the American Mathematical Society*.

Su Gao, Steve Jackson, and Vincent Kieftenbeld, The Laczkovich–Komjáth property for coanalytic equivalence relations, to appear in the *Journal of Symbolic Logic*.

Other Published Items

Eddy, C. M., Hughes, K., Kieftenbeld, V., & Hayata, C. (2009). XTreem Mathematics: Teaching Geometry. Available from the University of North Texas College of Education website: <http://www.coe.unt.edu/geometry>

Item characteristic curves, Mathematica Demonstration, Available from the Wolfram Demonstrations website:

<http://demonstrations.wolfram.com/ItemCharacteristicCurves/>

Scholarships and Grants

UNT College of Arts & Sciences Graduate Council travel grant, Fall 2009

Research supported by part of NSF Grant DMS-0901853, Summer 2009

John Ed Allen Scholarship, UNT Department of Mathematics, 2007 – 2008

Continuing Scholarship, UNT Graduate School, 2007 – 2008

Summer research support, UNT Department of Mathematics, Summer 2007

Association for Symbolic Logic travel award, Summer 2005, Summer 2006

Technological Experience

TI-83/84, TI-Nspire, Mathematica, GeoGebra, Geometer’s Sketchpad, WebCT Vista/Blackboard, SPSS/PASW, R, OpenBUGS/WinBUGS, videoconference classroom

Contributed Talks

Different road maps, same destination – comparing proof formats in geometry. Conference for the Advancement of Mathematics Teaching, San Antonio, July 15 – 17, 2010 (submitted)

Transforming geometry with transformations, NCTM Annual Meeting, San Diego, April 21 – 24, 2010 (copresenter)

Resolvable maps preserve complete metrizable, Joint Mathematics Meeting, San Francisco, January 13 – 16, 2010

Maps which preserve complete metrizable, Logic Seminar, University of North Texas, September 18, October 2, 2009

Borel structures on ordinals, Logic Seminar, University of North Texas, April 28, September 22 and 29, 2006

Solovay objects from Blackwell determinacy, ASL Logic Colloquium, Nijmegen, The Netherlands, July 31, 2006

The classification of ordinal topologies, Logic Seminar, University of North Texas, October 7, 2005

Notions of strong compactness without the Axiom of Choice, ASL Logic Colloquium, Athens, Greece, July 28 – August 3, 2005

The nonprovability of Kruskal's theorem in PA, Oberseminar Mathematische Logik, RhFW-Universität Bonn, April 22, 2004

Other Conferences/Workshops Attended

Texas Instruments Teachers Teaching with Technology, Denton, September 25 – 26, 2009

Conference for the Advancement of Mathematics Teaching, Houston, July 15 – 17, 2009

AMS/MAA Joint Mathematics Meeting, San Antonio, January 12 – 15, 2006

Service to University of North Texas

Introduction to Mathematica, UNT Math Club, November 20, 2009

Math for elementary education textbook adoption committee, Summer 2009

Student representative on the logic search committee, Spring 2009

Professional Memberships

American Mathematical Society, Association for Symbolic Logic, Mathematical Association of America, National Council of Teachers of Mathematics, Sigmaa-Rume