

Larsen Louder

Curriculum Vitae

University of Michigan
Department of Mathematics
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Education

B.S. Mathematics, University of Utah, 2001

M.Phil. Mathematics, University of Utah, 2003

Ph.D. Mathematics, University of Utah, 2007

Research Interests

Geometric Group Theory, Limit Groups, Low Dimensional Topology

Academic Experience

University of Utah, 2001-2007.

MSRI NSF Postdoc, Fall 2007.

Rutgers-Newark, NSF Postdoc, Spring 2008.

University of Michigan, NSF/Hildebrandt/RTG Postdoc, 2008-Present.

University of Oxford, Postdoctoral Researcher, 2011.

Honors and Awards

National Science Foundation MSPRF, 2007

Publications

Papers

Graphs of subgroups of free groups

Joint with D B McReynolds

Algebraic & Geometric Topology 9 (2009) 327-335

<http://msp.warwick.ac.uk/agt/2009/09-01/p014.xhtml>

Krull dimension for limit groups

Geometry & Topology 16 (2012) 219-299

<http://www.msp.warwick.ac.uk/gt/2012/16-01/p005.xhtml>

Scott complexity and adjoining roots to finitely generated groups
 GGD, accepted
<http://www.math.lsa.umich.edu/~llouder/folding.pdf>

Preprints

Nielsen equivalence of generating sets for closed surface groups
 arXiv:1009.0454
 Submitted

Simple loop conjecture for limit groups
 arXiv:1106.1350
 Submitted

Selected Talks

Model Theory of Groups
 CIRM
Simple loop conjecture for limit groups
 November 2011

Geometry and Topology Seminar
 Warwick Mathematics Institute
Simple loop conjecture for limit groups
 November 2011

Geometric Group Theory
 Technion - Israel Institute of Technology
 Haifa, Israel
Nielsen equivalence of generating sets for surface groups
 June 2011

Séminaire GT3
 Strasbourg
Nielsen equivalence of generating sets for surface groups
 April 2011

Algebra Seminar
 Oxford
Nielsen equivalence of generating sets for surface groups
 February 2011

Wasatch Topology Conference
 Park City, UT
Nielsen equivalence of generating sets for surface groups
 August 2010

1059th AMS Meeting
 Spring Western Section Meeting, Albuquerque,
 New Mexico
Graphs of subgroups of free groups
 April 2010

Geometry and Topology Seminar
 Caltech
Krull dimension for limit groups
 November 2009

Colloquium
 Hebrew University, Jerusalem
Krull dimension for limit groups
 June 2009

Universitat Politècnica de Catalunya
Graphs of subgroups of free groups
 June 2009

AMS Western Section Meeting
 San Francisco
Krull dimension for limit groups
 April 2009

Non-Positive curvature and the elementary theory of free groups
 Anogia, Greece
Krull dimension for limit groups
 June 2008

Topology/Geometry Seminar
 Yale
Krull dimension for limit groups
 February 2008

Topics in Geometric Group Theory
MSRI Workshop
Krull Dimension for Limit Groups
November 2007

Séminaire “Groupes, Géométrie et Logique”
Institut Camille Jordan
Université Claude Bernard Lyon 1
Krull dimension for limit groups
May 2007

Topology Seminar
The University of Texas at Austin
Aligning JSJ decompositions of limit groups
April 2007

Geometry and Topology Seminar
Caltech
Aligning JSJ decompositions of limit groups
February 2007

Geometric Group Theory Seminar
University of Oklahoma
Krull Dimension for Limit Groups
November 2006

1019th AMS Meeting
University of Utah
Krull Dimension of Limit Groups
October 2006

Max Dehn Seminar
University of Utah
Krull Dimension of Limit Groups
October 2006

Wasatch Topology Conference
Park City, UT
Accessibility of Limit Groups
July 2006

GSAC Colloquium
University of Utah
An Introduction to Hyperbolic Geometry
November 2001

Recitations

International Conference and Workshops on Geometric Topology
honoring Karol Borsuk’s life and work on the 100th anniversary of his birth
Workshop on Geometric Group Theory
Będlewo, Poland
July 2005

Mini Max Dehn Seminar (Graduate Topology Seminar)
University of Utah
Recurring
2002 - Co-Organizer

Teaching

University of Michigan:

Fall 2010
Math 116 \times 2: *Calculus II*

Winter 2010
Math 590: *Intro to Topology*

Fall 2009
Math 115: *Calculus I*

Winter 2009
Math 215: *Calculus III*

Fall 2008
Math 215: *Calculus III*

University of Utah:

VIGRE Summer 2006 REU Program
The Geometry of Möbius Transformations
Graduate Assistant

Fall 2003
Math 1030: *Quantitative Thinking*

Fall 2005
Math 1220: *Calculus II*

Fall 2002
Math 1100: *Business Calculus*

VIGRE Summer 2005 REU Program
The Mathematics of Games of Chance
Graduate Assistant

VIGRE Summer 2002 REU Program
Random Walks and Simulation
Graduate Assistant

Last updated: March 2, 2012