Viveka Erlandsson

Personal Information	Aalto Science Institute Aalto University PO Box 15500 FI-00076 Aalto Finland	<i>E-mail:</i> viveca.erlandsson@aalto.fi <i>Website:</i> http://users.asci.aalto.fi/erlandsson/ <i>Citizenship:</i> Sweden
Research Interests	Hyperbolic geometry, low dimensional topology, Teichmüller theory and related fields.	
Academic Positions	July 2013-present Resea Oct 2015-March 2016 S Fribourg, Switzerland	erch Fellow (post-doc), Aalto University, Espoo, Finland Swiss National Science Foundation post-doc, University of
Education	The Graduate Center of Ph.D., Mathematics, M Dissertation: "The M Adviser: Ara Basmaj M.Phil., Mathematics,	of the City University of New York, New York, NY Tay 2013 Margulis Region in Hyperbolic 4-space" ian 2011
	San Francisco State University, San Francisco, CA	
	 M.A., Mathematics, 200 Thesis: "Tame Homo Adviser: Joseph Gube B.S., Applied Mathema 	06 omorphisms of Polytopal Rings" eladze tics, 2005

PUBLICATIONS AND PREPRINTS	 Short closed geodesics with self-intersections, with Hugo Parlier (preprint, 2016) arXiv: 1608.07436[math.GT]
	• A remark on the word length in surface groups, (preprint, 2016) arXiv: 1608.07436[math.GT]
	· Simplicial embeddings between multicurve graphs, with Federica Fanoni, to appear in Michigan Mathematical Journal, arXiv: 1510.07700[math.GT]
	 Counting Curves in Hyperbolic Surfaces, with Juan Souto, to appear in Geometric and Functional Analysis (published online 2016), arXiv: 1508.02265[math.GT]
	 On Margulis cusps of hyperbolic 4-manifolds, with Saeed Zakeri, Geometriae Dedicata 174 (2015), 75-103
	 A discreteness criterion for groups containing parabolic isometries, with Saeed Zakeri, Contemporary Mathematics 639 (2015),235-242
	• The Margulis region and screw parabolic elements of bounded type, Bull. London Math. Soc. 45 (2013), 1209-1220.
	 Tame Homomorphisms of Polytopal Rings, Beitr. Algebra Geom. 49 (2008), 315-323
Conference Talks	 Workshop on Grothendieck-Teichmüller Theories, Chern Institute of Mathe- matics, Nankai University, Tianjin, China, July 2016
	· Asymptotic Geometry, Séte, France, June 2016
	 Advanced School on Geometric Group Theory and Low-Dimensional Topology: Recent Connections and Advances, Trieste, Italy, June 2016
	 AMS Spring Eastern Sectional Meeting, Special Session on Invariants of Closed Curves on Surfaces, Stony Brook University, NY, March 2016
	• Finsler geometry and applications to low-dimensional geometry and topology and moduli spaces, University of Cagliari, Italy, September 2015
	\cdot Geometry and Analysis on Hyperbolic Spaces, University of Delhi, India, Dec 2014
	· Sixth Ahlfors-Bers Colloquium, Yale University, CT, Oct 2014
	\cdot Sixth Iberoamerican Congress on Geometry, CUNY, NY, May 2014
	• Finsler geometry and applications, Galatasaray University, Istanbul, Turkey, Apr 2014
	 Joint Mathematics Meetings, AMS Special Session on Geometric and Analytic Methods in Teichmüller Theory and Hyperbolic Geometry, San Diego, CA, Jan 2013

 \cdot Conference on Higher Teichmüller-Thurston Theory, Montreal, Canada, Oct2012

Seminar Talks	\cdot Complex Analysis and Dynamics Seminar, CUNY Graduate Center, NY, April 2016
	\cdot Boston College Geometry/Topology seminar, Boston, MA, March 2016
	\cdot Geometric Group Theory and Topology Seminar, Tufts University, Boston, MA, March 2016
	\cdot Geometry and Topology Seminar, Brown University, Providence, RI, March 2016
	\cdot Geometry-Topology Seminar, Temple University, Philadelphia, PA, March 2016
	\cdot Topology seminar, University of Michigan, Ann Arbor, MI, March 2016
	\cdot Séminaire Gaston Darboux, University of Montpellier, France, February 2016
	\cdot Séminaire GT3, University of Strasbourg, France, December 2015
	\cdot Geometry and Topology Seminar, University of Warwick, UK, November 2015
	\cdot Séminaire Groupes et Géométrie, University of Geneva, Switzerland, November 2015
	\cdot Oberseminar Geometrie, University of Fribourg, Switzerland, November 2015
	\cdot Seminari di Geometria, University of Pisa, Italy, March 2015
	\cdot Pure Maths Colloquium, Durham University, UK, Jan 2015
	\cdot Geometry Seminar, University of Jyväskylä, Finland, Nov 2014
	\cdot Geometric Analysis Seminar, University of Helsinki, Finland, Nov 2014
	\cdot Topology Seminar, Stony Brook University, NY, Oct 2014
	\cdot Center for Quantum Geometry of Moduli Spaces, Aarhus University, Denmark, Sep 2014
	\cdot Oberseminar Geometrie, University of Fribourg, Switzerland, Apr 2014
	\cdot Analysis and Geometry Seminar, Aalto University, Finland, Oct 2013
	\cdot Topology Seminar, Wesleyan, CT, Apr 2013
	\cdot Geometry and Topology Seminar, CUNY Graduate Center, NY, Apr 2013
	\cdot Dynamical System Seminar, Stony Brook University, NY, Feb 2013
	\cdot Geometry and Topology Seminar, Temple University, PA, Nov 2012
	\cdot Hyperbolic Geometry Seminar, Simons Center, Stony Brook University, NY, Oct 2012

Teaching Experience	 University of Fribourg, Switzerland, Fall 2015 (Teaching Assistant) Algèbre et géométrie
	Aalto University, Finland, Fall 2014
	\cdot (Instructor) <i>Hyperbolic Geometry</i> , MS-EI990
	Hunter College CUNY, New York, NY, Aug 2011-June 2013
	\cdot (Instructor) Calculus with Analytic Geometry, Math 150
	\cdot (Instructor) <i>Pre-calculus</i> , Math 125
	\cdot (Instructor) Algebra for College Students, Math 101
	\cdot (Instructor) Mathematics and Everyday Life, Math 102
	Baruch College CUNY, New York, NY, Aug 2008-Aug 2011
	• (Instructor) Applied Calculus and Matrix Algebra (Baruch College, Math 2207)
	\cdot (Instructor) Applied Calculus II, Math 2205
	• (Instructor) Pre-calculus and Elements of Calculus, Math 2003
	\cdot (Instructor) College Algebra, Math 1030 and 1031
Awards and Fellowships	 University Fellowship (CUNY), 2008-2011, 2012-2013 Rees Dissertation Fellowship (CUNY), 2011-2012 Chancellor's Fellowship (CUNY), 2006-2011 Science Fellowship (CUNY), 2006-2008 Albert Bowker Award for Outstanding Achievement, 2007 Graduate Student Award for Distinguished Achievement (SFSU), 2006
Service Activities	 Teaching Assistant: Institute for Advanced Studies Women and Mathematics Program: Curves, loops, and words in Geometry, May 2016 Co-organizer: Research Seminar during the Institute for Advanced Studies Women and Mathematics Program: Curves, loops, and words in Geometry, May 2016 Supervision of undergraduate student: Benjamin Bandli (University of Wiscon- sin - Madison), AScI Internship programme, Finland, June-August 2015

 \cdot Organizer: Hyperbolic Geometry Seminar, CUNY Graduate Center, 2010-2013