

Curriculum Vitae

Michelle Bucher-Karlsson

Date of Birth: July 25, 1976
Maiden name: Bucher
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Present employment:

From January 2008: *Biträdande Lektor* (tenure track assistant professor) at KTH. On leave from February 2010.

Ambizione grant recipient at EPFL from February 2010.

Parental leave:

A total of 11 months with the 2nd child and 6 months with the 1st child.

Jan. 2010: 100% with 2nd child.

Oct. 2009 – Dec. 2009: 80% with 2nd child.

Feb. 2009 – May 2009 and July 2009 – Sept. 2009: 100% with 2nd child.

Aug. 2007 – Sept. 2007: 50% with 1st child.

Oct. 2006 – Feb. 2007: 100% with 1st child.

Postdoctoral experience:

March 2007 – Dec. 2007: Göran Gustafsson Postdoctoral Fellow at KTH.

Oct. 2006 – Feb. 2007: Parental leave.

July 2006 – Sept. 2006: Postdoctoral Fellow at KTH, supported by the Swiss National Science Foundation (SNSF).

Jan. 2006 – June 2006: Postdoctoral Fellow at the Mittag-Leffler Institute, program Algebraic topology.

June 2005 – Dec. 2005: Postdoctoral Fellow at KTH, supported by the SNSF.

Jan. 2005 – May 2005: Postdoctoral Fellow at Yale University, supported by the SNSF.

Oct. 2004 – Dec. 2004: Guest researcher at Westfälische Wilhelms-Universität Münster, Germany.

Education:

July 2004: Ph.D. defense, Ph.D. in Mathematics issued in fall 2004, ETHZ. Ph.D. advisor: Prof. Marc Burger.

Fall 2000: Immatriculation for a Ph.D. Thesis at ETHZ.

1995-1999: Diploma in mathematics at the University of Geneva. Diploma thesis written under the supervision of Prof. Pierre de la Harpe.

1997-1998: Exchange student in mathematics at Warwick University, England.

1991-1995: High school in Geneva (College Candolle) with diploma type C. Awarded the Marc Birkigt Price (mathematics, descriptive geometry and physics).

Grants and awards:

- Göran Gustafsson award for younger scientists, 2009. (300'000 SEK \sim 42'200 CHF)
- SNSF Ambizione grant 2009.
- Research grant from the Swedish Research Council (Svenska Vetenskapsrådet). (4'124'000 SEK \sim 580'000 CHF)
- SNSF fellowship for Advanced researchers 2007 (declined).
- Göran Gustafsson Postdoctoral Fellowship. (234'000 SEK \sim 33'000 CHF)
- SNSF fellowship for prospective researchers 2004.

Service:

- Referee for several international mathematics journals.
- Coorganizer, together with M. Bridson (Oxford), A. Karlsson (KTH-Geneva), T. Nagnibeda-Smirnova (Geneva), K. Vogtmann (Cornell), of the one semester program "Geometric and analytic aspects of group theory" at the Mittag-Leffler Institute to take place in Spring 2012.
- Supervisor for the semester project "Cayley graphs and growth of groups" by Nathalie Pellet (exchange student from EPFL), at KTH, Fall 2008.
- Supervisor for the project "Maths en Jeans" (Mathematics in Jeans) at the French Lycée Saint-Louis of Stockholm, 2008-2009.
- Since January 2008: Member of the Equality Committee at the school of Engineering Sciences, KTH.
- Organizer of events for female students at KTH, and for female faculty members at the school of Engineering Sciences, KTH.

Talks:

Seminar talks: Royal Institute of Technology, Stockholm, November 2008; EPFL, October 2008; Geneva University, November 2007; Karlsruhe University, October 2007; Copenhagen University, June 2007; Federal Polytechnical School (ETHZ), Zurich, May 2007 and June 2006; Geneva University, June 2006; Mittag-Leffler Institute, February 2006; Bern University, January 2006; Ohio State University, October 2005; Royal Institute of Technology, Stockholm, October 2005; City University of New York, March 2005; Yale University, February 2005; Federal Polytechnical School (ETHZ), Zurich, May 2004 and November 2002; Muenster University, December 2003; Bern University, November 2001.

Conference talks: AIM Workshop on Volume Entropy Rigidity, ETHZ, June 2009; Conference on Discrete Groups and Geometric Structures, with applications III, Kortrijk Belgian, May 2008; Workshop on Geometry and Topology, Fribourg, May 2007; Conference for Women in Mathematics (Geometric group theory), Institute for Advanced Studies, Princeton, May 2005; First Franco-Nordic Congress of Mathematics, Reykjavik, January 2005; Second NRW Topology meeting, Münster, November 2004; International Conference on Shimura Varieties, Lattices and Symmetric Spaces, Monte Verita, May 2004; Conference on Ergodic Properties of Geometric Group Actions, Schloss Ringberg, June 2003; International Conference on Group Theory: Combinatorial, Geometric, and Dynamical Aspects of Infinite Groups, Gaeta, June 2003.

Minicourses: Characteristic classes and bounded cohomology, Oberwolfach, June 2009; Bounded cohomology and hyperbolic geometry, Fribourg University, August 2008; An introduction to bounded cohomology, KTH Stockholm, March 2008.

Teaching experience:

- 2008:** Lecturer for Linear Algebra (computer science, first year students), KTH Stockholm.
- 1999-2004:** Teaching assistant at ETH Zürich. (Exercise classes and occasional lectures for first and second year mathematics students.)
- 1998-1999:** Teaching assistant at University of Geneva.
- 1998-1999:** Teaching replacement, Secondary schools of Geneva.
- 1996-1997:** Recorder teaching.

Languages:

Fluency in French, English, Swiss-German, German and Swedish.