

Curriculum Vitae

Profile

Name: **Elisabeth Maria Fink**
Nationality: Austrian (Canadian permanent residency application submitted!)
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Work experience

08/2015- Postdoctoral fellow at the **University of Ottawa** under the supervision of Vadim Kaimanovich and Kirill Zainoulline (2017-)
10/2014-07/2015 Postdoctoral position at the **Ecole Normale Supérieure**, Paris under the ERC starting grant 257110 “RaWG” of Anna Erschler
09/2013- 09/2014 Postdoctoral position at **Universite Paris Sud (Orsay)** under the ERC starting grant 257110 “RaWG” of Anna Erschler

Education

2009-2013: **University of Oxford**, DPhil in Pure Mathematics, association with University College Oxford, thesis “On some non-periodic branch groups” supervised by Prof. Dan Segal
2003-2009: **University of Technology of Vienna**, graduation as MSc with distinction, thesis in algebraic number theory, supervised by Prof. Michael Drmota
1998-2003: HTBL Pinkafeld, Austria, focus on ‘Computer Science and Economy’, graduation with distinction
1994-1998: Gerlitz HS, 8230 Hartberg, Austria
1990-1994: Kernstock Volksschule, 8230 Hartberg, Austria

Teaching Experience

2015- **University of Ottawa**
Fall 2017: MAT1320E – Calculus I
Spring/Summer 2017: MAT13003X - Mathematical Methods I
Winter 2017: MAT1322B - Calculus II
Fall 2016: MAT1320C – Calculus I

Winter 2016: MAT1322A – Calculus II

Fall 2015: MAT1330B – Calculus for Life Sciences

2013: **Oxford Royale Academy (award winning summer school for 16-18 year old international students):**

Mathematics July/August 2013

2009-2013

University of Oxford:

Teaching Assistant positions:

Linear Algebra I,II, University College 2009-2012

Galois Theory 2009-2012

Group Theory 2010

Introduction to Groups, Rings and Fields 2012

Building Infinite Groups 2010-2011

Introduction to Matlab 2011-2012

‘Maths week’ - a preliminary course for incoming mathematics undergraduates,

University College Oxford 2010-2012

Algebraic Number Theory 2010-2013

2008-2009

University of Technology of Vienna:

TA for Mathematics for Economists

TA for Mathematics for Computer Scientists

Conference Talks given:

- August 2017: Combinatorics of Group Actions (St. John’s, NF, Canada)
- July 2017: Mathematical Congress of the Americas (Montreal, QC, Canada)
- August 2016: Winter of Disconnectedness (Newcastle, Australia)
- June 2016: Beyond Hyperbolicity (Cambridge, UK)
- March 2016: 50th Spring Topology and Dynamical Systems Conference (Waco, TX, USA)
- December 2015: CMS Meeting Montreal, (Montreal, QC, Canada)
- June 2015: Geometric Topology, Geometric Group Theory & Dynamical Systems (Dubrovnik, Croatia)
- April 2015: Asymptotic invariants of groups (Oxford, United Kingdom)
- March 2015: Geometric Groups on the Gulf Coast, South Padre Island (Texas, USA)
- June 2014: Geometric, dynamical and combinatorial aspects of infinite groups (Rennes, France)
- May 2013: GAGTA (New York, USA)
- July 2012: Groups and their actions (Bedlewo, Poland)

Invited Seminar Talks:

- October 2016: Queen's University (Kingston, ON, Canada)
- April 2017: Carleton University (Ottawa, ON, Canada)
- February 2016: Carleton University (Ottawa, ON, Canada)
- January 2016: The Ohio State University (Columbus, OH, USA)
- November 2015: Northwestern University (Evanston, IL, USA)
- October 2015: McGill University (Montreal, Quebec, Canada)
- September 2015: University of Ottawa (Canada)
- June 2015: University of Lille (France)
- June 2015: University of Rennes I (France)
- May 2015: University of Neuchatel (Switzerland)
- May 2015: CUNY (USA)
- April 2015: University of Illinois at Chicago (USA)
- April 2015: Vanderbilt University (Nashville, TN, USA)
- January 2015: University of Bielefeld (Germany)
- October 2014: Montpellier (France)
- October 2013: Orsay (France)
- April 2013: University of Southampton (UK)

Publications

Palindromic Width of Wreath Products

Journal of Algebra 471, pp 1-12 - 2017

Palindromic words in simple groups (with Andreas Thom)

IJAC Volume 25, Issue 3 pp 439, 2015

Conjugacy Growth and Conjugacy Width of Certain Branch Groups

IJAC Volume No.24, Issue No. 8, 2014

A finitely generated branch group of exponential growth without free subgroups

Journal of Algebra 397 - 2014

Preprints on Arxiv

Morse geodesics in torsion groups (2017)

Uniquely labelled Geodesics in Coxeter Groups (with Kirill Zainoulline) (2017)

On the finitely generated Hausdorff spectrum of spinal groups (2013)

Scholarships

2009-2012	Loughman Scholarship at University College, Oxford
2009	Auslandsstipendium des Landes Steiermark, Austria
2008	Stiftungsstipendium from the University of Technology of Vienna

Other Activities

2015:	Local organizer for ' Growth, Symbolic Dynamics and Combinatorics of Words in Group ', a conference at the ENS Paris, 1-5 June 2015
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Language Skills

German (native)
English (excellent)
French (fluent)

IT knowledge: Maple, C++, C#, Java