

LIANA YEPREMYAN

PERSONAL INFORMATION

Personal e-mail	liana.yepremyan2009@gmail.com
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current location	Montreal, QC, Canada

RESEARCH INTERESTS

Extremal Combinatorics, Probabilistic Method and Structural Graph Theory

EDUCATION

Fall 2013 - Present McGill University, Canada

PhD in Computer Science
Research Area: *Extremal Combinatorics*
Supervisor: Sergey Norin
Co-Supervisor: Hamed Hatami
Visiting student at Georgia Tech from 02/2014-05/2014

Winter 2012 - Summer 2013 McGill University, Canada

Masters in Computer Science
Thesis: *Turán-type problems*
Supervisor: Sergey Norin
Fast-tracked to PhD

Fall 2011 Louisiana State University, US

PhD in Math
Moved to McGill University after the first semester

Fall 2009 - Spring 2011 Yerevan State University, Armenia

Masters in Applied Mathematics
Thesis: *Interval-edge colorings of graph products*
Department: Discrete Mathematics and Theoretical Computer Science
Advisor: Petros Petrosyan

Fall 2005 - Spring 2009 Yerevan State University, Armenia

Bachelor in Applied Mathematics
Thesis: *Placement of the scheme on the line by height*
Advisor: Stepan Markosyan

AWARDS

- Graduate Research Mobility Award ("GRMA") Research Travel Award from September 1, 2014 - April 30, 2015

- GREAT Conference Travel Award from May 1, 2014 - April 30, 2015
- *Computer Science Top-up Award*, McGill University, 2014
- *Graduate Excellence Award in Computer Science*, McGill University, 2013-2014, 2014-2015
- *Women in Science Fellowship*, McGill University, 2013-2014, 2014-2015
- *Summer DFW International Student Award*, McGill University, 2012
- *Luys Scholarship*, <http://www.luys.am/en/scholarship>, 2011, 2012
- *AGBU International Scholarship Award*, <http://www.agbu-scholarship.org>, 2012, 2013
- *Graduate Assistantship*, Louisiana State University, 2011-2015 declined in Winter 2012
- *Enrichment Award*, Louisiana State University, 2011-2015, declined in Winter 2012
- *Armenian Government Full Scholarship for Masters Program*, Yerevan State University, 2009-2011
- *Armenian Government Full Scholarship for Undergraduate Program*, Yerevan State University, 2006-2009

PUBLICATIONS, PREPRINTS

- *Lagrangian of intersecting families*, S. Norin, L. Yepremyan, in preparation, 2015+
- *The Turán Number of Extensions*, S. Norin, L. Yepremyan, in preparation, 2015+
- *The Turán number of Generalized Triangles*, S. Norin, L. Yepremyan, submitted
- *The Characterization of planar, 4-connected, $K_{2,5}$ -minor-free graphs*, Emily A. Marshall, L. Yepremyan, Z. Gaslowitz, submitted
- *Sparse Halves in Dense Triangle-free Graphs*, S. Norin, L. Yepremyan, *Journal of Combinatorial Theory, Series B* (2015), pp. 1-25
- *Sparse Halves in Dense Triangle-free Graphs (extended abstract)*, S. Norin, L. Yepremyan, *Electronic Notes in Discrete Mathematics*, Volume 43, pp. 271-278
- *Interval Edge-Colorings of Graph Products*, P. Petrosyan, H. Khachatryan, L. Yepremyan, H. Tananyan, *Proceedings of the CSIT Conference, Yerevan, 2011*, pp. 89-92

TEACHING ASSISTANTSHIPS

- COMP 360, Algorithm Design, with Prof. Yang Cai, McGill University, Winter 2015
- COMP 360, Algorithm Design, with Prof. Adrian Vetta, McGill University, Fall 2014
- COMP/MATH 553, Algorithmic Game Theory, with Prof. Yang Cai, McGill University, Fall 2014
- COMP 360, Algorithm Design, with Prof. David Avis, McGill University, Fall 2013
- MATH 350, Graph theory and Combinatorics, with Prof. Sergey Norin, McGill University, Fall 2012, 2013
- COMP 251, Algorithms and Data Structures, with Prof. Clark Verbrugge, McGill University, Winter 2013
- COMP 202, Foundations of Computing, McGill University, Fall 2012, Summer 2014
- Math 4172, Combinatorics, with Professor Bogdan Oporowski, Louisiana State University, Fall 2011
- Math 2085, Linear Algebra, with Andrew Barker, Louisiana State University, Fall 2011

TALKS

- *The Local Stability method and the Turán numbers of Extensions*, BCC 2015, Warwick University, July 6, 2015
- *The Local Stability method and the Turán numbers of Extensions*, Connections in Discrete Mathematics (A celebration of the work of Ron Graham), SFU, Vancouver, June 18, 2015
- *The Turán number of The Generalized Triangle*, Hebrew University, Jerusalem, November 17, 2014
- *The Turán number of The Generalized Triangle*, Georgia Tech, Atlanta, April 17, 2014
- *Lagrangian of Intersecting Families*, Eurandom Workshop on Probability and Graphs, Eindhoven, January 9, 2014
- *Sparse Halves in Dense Triangle-free Graphs*, Charles University, Prague, June 13, 2013
- *Sparse Halves in Dense Triangle-free Graphs*, Research Institute for Discrete Mathematics, Bonn, June 7, 2013
- *Interval Edge Colorings of Graph Products*, EURO Summer Institute 2010, Klagenfurt, Austria, August, 2010

POSTER SESSIONS

- *The Turán number of Generalized Triangles*, The 18th Midrasha Mathematicae, "In and Around Combinatorics", Hebrew University, Jerusalem, January 19, 2015
- *Sparse Halves in Dense Triangle-free graphs*, Erdős Centennial, Budapest, Hungary, July 1-5, 2013
- *Interval Edge Colorings of Graph Products*, Combinatorics and Analysis in Spatial Probability ESF conference, Eindhoven, Netherlands, December 12 - 17, 2010

CONFERENCES, WORKSHOPS, SUMMER SCHOOLS

- Regularity and Analytic Methods in Combinatorics, LMS-CMI Research School, University of Warwick, 1-5 July, 2015
- Graph Theory and Combinatorics Workshop, Holetown, Barbados, March 27-April 3, 2015
- Winter School: The 18th Midrasha Mathematicae, "In and Around Combinatorics", Hebrew University, Jerusalem, January 18-31, 2015
- Workshop: Graph limits, groups and stochastic processes, Budapest, June 29 - July 2, 2014
- Summer School: Graph limits, groups and stochastic processes, Budapest, June 22-27, 2014
- SIAM Conference on Discrete Mathematics, Minneapolis, June 16-19, 2014
- Graph Theory and Combinatorics Workshop, Holetown, Barbados, March 28-April 4, 2014
- Eurandom Workshop on Probability and Graphs, Eindhoven, January 6-10, 2014
- Workshop on Geometric and Topological Graph Theory, Banff International Research Station, Canada, September 29-October 4, 2013
- Erdős Centennial, Budapest, Hungary, July 1-5, 2013
- Young Women in Mathematics, Research Institute for Discrete Mathematics, Bonn, June 7-9, 2013
- Spring School: Threshold phenomena and random graphs, Paris, Institut Henri Poincaré (I.H.P.), May 27-31, 2013

- Oberwolfach Seminar: Positional Games, Mathematisches Forschungsinstitut Oberwolfach, Germany, May 19-25, 2013
- Graph Theory and Combinatorics Workshop, Holetown, Barbados, March 29-April 5, 2013
- Second Montreal Spring School in Graph Theory, McGill University, Montreal, June 11 - July 6, 2012
- Atlanta Lecture Series in Combinatorics and Graph Theory IV, Georgia State University, US, November 5 - 6, 2011
- Combinatorics and Analysis in Spatial Probability, ESF conference, Eindhoven, Netherlands, December 12 - 17, 2010
- Nonlinear Methods in Combinatorial Optimization, EURO Summer Institute 2010, Klagenfurt, Austria, August 20 - September 3, 2010

WORK EXPERIENCE

01.11.2010 - 01.08.2011 Software Developer

*Macadamian
Armenia*

Job Description: Development of VoIP SIP client and VoIP SIP plugin for Microsoft Outlook

Summary of tools and technologies: Windows, Microsoft Visual Studio, C++ with STL, MFC (beginner), XML, VoIP technologies, TCP/IP (beginner)

01.11.2008 - 01.11.2010 Research and Development Engineer

01.07.2008 - 01.11.2008 Junior Engineer

*Virage Logic
Corporation*

Job Description: Participated in design, development, verification and bug fixing process of EDA tool STAR Builder for Integration of System-On-Chip (SOC) as well as in release planning activities, designing of interface with other groups, creating of user documentation.

Summary of tools and technologies: Unix/Linux, gcc, ddd, CVS, Ncverilog, Modelsim, C/C++ with STL, QT, Tcl, Yacc/Lex , Perl, Python (beginner)

OTHER INFORMATION

Languages

ARMENIAN · Mother tongue
ENGLISH · Advanced

RUSSIAN · Upper Intermediate
GERMAN, · Basic
FRENCH