LIANA YEPREMYAN

Personal Information

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

Research Interests

Extremal Combinatorics and Graph Theory, Structural Graph Theory

Education

**Fall 2013 - Present
(Expected - Summer 2016)** — McGill University, Canada

Ph.D in Computer Science

Thesis: *Turán-type problems for graphs and hypergraphs*
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 for graphs*
Supervisor: Sergey Norin
Fast-tracked to Ph.D program

Fall 2011- Winter 2012 — Louisiana State University, US

Ph.D 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

- *Women in Science Fellowship*, McGill University, 2013-2014, 2014-2015, 2015-2016

- *Graduate Excellence Award in Computer Science*, McGill University, 2013-2014, 2014-2015

- *Graduate Research Mobility Award*, McGill University, September 1, 2014 - April 30, 2015

- *GREAT Conference Travel Award*, McGill University, May 1, 2014 - April 30, 2015

- *Computer Science Top-up Award*, McGill University, 2014

- *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, 2015

- *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

- *Complete graph immersions and minimum degree*, Z. Dvořák, L. Yepremyan, arXiv:*1512.00513*

- *The Turán Number of Extensions*, S. Norin, L. Yepremyan, arXiv:1510.04689, 2015, submitted

- *The extremal function for disconnected minors*, E. Csóka, I. Lo, S. Norin, H. Wu, L. Yepremyan, arXiv:1509.01185, submitted, 2015

- *Lagrangians of intersecting families and Turán numbers of $\mathcal{K}_{r,r}^{(r)}$*, A. Bene Watts, S. Norin, L. Yepremyan, in preparation, 2015+

- *The Turán number of Generalized Triangles*, S. Norin, L. Yepremyan, arXiv:1501.01913, submitted

- *The characterization of planar, 4-connected, $K_{2,5}$-minor-free graphs*, Emily A. Marshall, L. Yepremyan, Z. Gaslowitz, arXiv:1507.06800

- *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. Khachatrian, L. Yepremyan, H. Tananyan, Proceedings of the CSIT Conference, Yerevan, 2011, pp. 89-92

Teaching Assistantships

- COMP 360, Algorithm Design, with Prof. Hamed Hatami, McGill University, Fall 2015

- 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 Prof. Bogdan Oporowski, Louisiana State University, Fall 2011
- Math 2085, Linear Algebra, with Prof. Andrew Barker, Louisiana State University, Fall 2011

Talks

- *The Local Stability Method and the Turán numbers of extensions*, CMS Meeting, Graph Theory Session, Montreal, December 4, 2015
- *The Local Stability Method and the Turán numbers of extensions*, London School of Economics, London, November 17, 2015
- *The Local Stability Method and the Turán numbers of extensions*, University of Birmingham, Birmingham, November 16, 2015
- *The Local Stability Method and the Turán numbers of extensions*, Warwick University, Coventry, November 13, 2015
- *The Local Stability Method and the Turán numbers of extensions*, Charles University, Prague, November 12, 2015
- *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

- 25th British Combinatorial Conference, University of Warwick, 6-10 July, 2015
- 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

01.11.2008 - 01.11.2010   Research and Development Engineer

01.07.2008 - 01.11.2008   Junior Engineer

Virage Logic / Synopsys Armenia

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, design of interface, user documentation.
Summary of tools and technologies: Unix/Linux, gcc, ddd, CVS, Ncverilog, Modelsim, C/C++ with STL, QT, Tcl, Yacc/Lex , Perl, Python

Other Information

Languages ARMENIAN · Mothertongue

ENGLISH · Fluent

RUSSIAN · Advanced

GERMAN, FRENCH · Basic