CURRICULUM VITAE

Dr. Bahman Ahmadi

December 25, 2014

Education

- **University of Regina** Regina, Canada
  PhD of Mathematics *2009 - 2013*
- **Sharif University of Technology** Tehran, Iran
  MSc of Mathematics *2005 - 2007*
- **Zanjan University** Zanjan, Iran
  BSc of Mathematics *2001 - 2005*
- **Dr. Shari'ati High-School** Zanjan, Iran
  High School Diploma *1997 - 2001*

Teaching Experience

- **General Math (Calculus)** University of Guilan (Rasht, Iran)
  Instructor *Fall 2014*
- **Differential Equations (for Chemistry students)** University of Guilan (Rasht, Iran)
  Instructor *Fall 2014*
- **Differential Equations (for Physics students)** University of Guilan (Rasht, Iran)
  Instructor *Fall 2014*
- **Basic Combinatorics** University of Guilan (Rasht, Iran)
  Instructor *Summer 2014*
- **Differential Equations and Series** University of Regina (Canada)
  Instructor *Spring 2013*
- **Calculus I (Math110)** University of Regina (Canada)
  Lab Instructor *Fall 2012*
- **Calculus I (Math110)** University of Regina (Canada)
  Instructor *Spring 2012*
- **Calculus II (Math111)** University of Regina (Canada)
  Lab Instructor *Winter 2012*
- **Calculus II (Math111)** University of Regina (Canada)
  Lab Instructor *Fall 2011*
- **Calculus II (Math111)** University of Regina (Canada)
  Lab Instructor *Winter 2010*

- **Calculus I (Math110)** University of Regina (Canada)
  Instructor *Fall 2009*
- **Applied Math** Ruzbeh Institute (Zanjan, Iran)
  Instructor *Fall 2008*
- **Differential Equations** Ruzbeh Institute (Zanjan, Iran)
  Instructor *Fall 2008*

Awards, Grants & Honours

- Saskatchewan Innovation and Opportunity Scholarship ($8000) . . . . October 2012
- U of Regina Graduate Students' Association Scholarship ($1250) . . . . December 2011
- U of Regina Graduate Scholarship ($7000) . . . . Fall 2011
- U of Regina Graduate Research Award ($7000) . . . . Spring/Summer 2011
- U of Regina Graduate Scholarship ($7000) . . . . Winter 2011
- U of Regina Graduate Research Award ($7000) . . . . Spring/Summer 2010
- U of Regina Graduate Students' Association Scholarship ($1250) . . . . March 2010
- U of Regina Graduate Teaching Fellowship ($7000) . . . . Fall 2009
- U of Regina Graduate Research Scholarship ($2500) 2009
- Ranked 31st in Iranian Entrance Examination of Grad studies with 20000 Participants . . 2005
- Ranked 2nd Student among Mathematics Students in Zanjan University 2004

Journal Papers

[1] B. Ahmadi, K. Meagher, *The Erdős-Ko-Rado property for some permutation groups*, Australasian Journal of Combinatorics, Volume 61(1) (2015), pp. 23-41.

[2] B. Ahmadi, K. Meagher, *The Erdős-Ko-Rado property for some 2-transitive groups*, The Annals of Combinatorics, To Appear.

[3] B. Ahmadi, K. Meagher, *A new proof for the Erdős-Ko-Rado Theorem for the alternating group*, J. of Discrete Math. 324 (2014), pp. 28-40

[4] B. Ahmadi, F. Alinaghipour, M. Cavers, S. Fallat, K. Meagher, S. Nasserasr, *Minimum number of distinct eigenvalues of graphs*, Electron. J. Linear Algebra 26 (2013), pp. 673-691.

[5] B. Ahmadi, F. Alinaghipour, S.M. Fallat, Y-Z. Fan, K. Meagher, S. Naserasr, *The minimum rank of universal adjacency matrices*, J. of Linear Algebra Appl. **437** (8)(2012), pp 2064-2076.

[6] F. Alinaghipour, B. Ahmadi, *On the energy of complement of regular line graphs*, MATCH Commun. Math. Comput. Chem. **60** (2008), pp 427-434.

Books and Theses

[1] B. Ahmadi, Translation of the book "Dennis G. Zill and Warren. S. Wright, Differential Equations with Boundary-Value Problems, 8th Ed" into Persian, 2014, Under preparation

[2] B. Ahmadi, Maximum Intersecting Families of Permutations, University of Regina, 2013. Ph.D. thesis.

[3] B. Ahmadi, *Nowhere-zero Flows on Graphs*, Master's Thesis, Sharif University of Technology, Iran (2007).

Research Interests

- Algebraic Graph Theory – Graph Theory – Combinatorics – Linear Algebra and Matrix Theory

Papers I Have Refereed

[1] D. Ellis, *Setwise intersecting families of permutations*, Journal of Combinatorial Theory, Series A 119 (2012) 825849 (Refereed with Dr. Karen Meagher)

Erdős Number

My Erdős number is 3 via the following path:

[1] **Bahman Ahmadi** – coauthored with – **Karen Meagher**:
B. Ahmadi, F. Alinaghipour, S.M. Fallat, Y. Fan, K. Meagher, S. Nasserasr, *The minimum rank of universal adjacency matrices*, Linear Algebra Appl. 437 (2012), no. 8, 20642076.

[2] **Karen Meagher** – coauthored with – **Chris Godsil**:
C. Godsil, K. Meagher, *A new proof of the Erds-Ko-Rado theorem for intersecting families of permutations*, European J. Combin. 30 (2009), no. 2, 404414.

[3] **Chris Godsil** – coauthored with – **Paul Erdős**:
P. Erdős, C. Godsil, S.G. Krantz, T.D. Parsons, *Intersection graphs for families of balls in $\mathbf{R}^n$*, European J. Combin. 9 (1988), no. 5, 501505

Talks & Presentations

- **Maximum Intersecting Sets of Permutations (poster)** — Regina
  2012 CMS Summer Meeting — *June 2012*

- **Versions of the Erdős-Ko-Rado Theorem** — University of Regina
  Graphs, Designs and Algebraic Combinatorics — *July 2011*

- **On Some Graphs Associated with Permutations** — UBC
  8th PIMS Young Researchers Conference — *May 2011*

- **Cayley Graphs on $Sym(n)$ Generated by Cyclic permutations** — University of Regina
  5th Annual Meeting of PNRMS — *April 2011*

- **Some Graphs Associated with Permutations** — University of Regina
  6th Annual GSA Student Research Conference — *April 2011*

- **Cayley Graphs on $Sym(n)$ Generated by Cyclic Permutations** — University of Regina
  Graduate Seminar (PhD) — *October 2010*

- **Nowhere-zero k-flows on Graphs** — Sharif University of Tech.
  MSc Thesis Defence (in Farsi) — *December 2007*

- **Nowhere-zero k-flows on Line Graphs**   IPM
  Weekly Seminars   *2006*

Workshops & Conferences Attended

- **2012 CMS Summer Meeting**   Regina, Canada
  Regina Inn   *June 2012*
- **Prairie Discrete Mathematics Workshop**   Regina, Canada
  University of Regina   *July 2011*
- **Graphs, Designs and Algebraic Combinatorics**   Regina, Canada
  University of Regina   *July 2011*
- **The 8th PIMS Young Researchers Conference**   Vancouver, Canada
  University of British Columbia   *May 2011*
- **The 5th Annual Meeting of PNRMS**   Regina, Canada
  University of Regina   *April 2011*
- **Workshop on Algebraic Graph Theory**   Banff, Canada
  The Banff Centre   *April 2011*
- **The 6th Annual GSA Research Conference**   Regina, Canada
  University of Regina   *April 2011*
- **Workshop on Algebraic Graph Theory**   Winnipeg, Canada
  University of Manitoba   *April 2010*
- **The 4th Annual Meeting of the PNRMS**   Winnipeg, Canada
  University of Manitoba   *April 2010*
- **Workshop on Cocliques and Colourings**   Waterloo, Canada
  University of Waterloo   *June 2009*
- **The 3rd Annual Meeting of the PNRMS**   Saskatoon, Canada
  University of Saskatchewan   *April 2009*
- **The First Conference and Workshop on Mathematical Chemistry**   Tehran, Iran
  Tarbiat Modares University   *April 2009*
- **The First International workshop on Algebraic Combinatorics**   Tehran, Iran
  IPM   *April 2007*
- **International Workshop on Graph Theory and Combinatorics**   Tehran, Iran
  IPM   *April 2006*

LEADERSHIP & VOLUNTEERSHIP EXPERIENCE

- **Member of Organizing Committee**   University of Regina
  2012 CMS Summer Meeting   *Sep. 2011 - June 2012*
- **Member of Search Committee**   University of Regina
  Dean of Faculty of Science   *Mar. 2011 - June 2011*
- **Representative of U of Regina Grad Students**   University of Regina
  at Pacific Institute for Math. Sciences (PIMS)   *July 2010 - July 2013*
- **President**   University of Regina
  University of Regina Iranian Society (URIS)   *Sep. 2009 - Sep. 2010*

- **Member of Organizing Committee**   UBC, Canada
  8th PIMS Young Researchers Conference   *Mar. 2011 - May 2011*
- **Vice President-International**   UBC, Canada
  University of Regina Graduate Students' Association (URGSA)   *Apr., 2010-Apr., 2011*

Computer Skills

- Programming and Markup Languages

  - **Expert:** LaTeX, XePersian
  - **Intermediate:** GAP, Visual C++, Pascal

- Software

  - **Expert:** Maple, MS Word, MS Powerpoint, Adobe Photoshop
  - **Intermediate:** MS Excel, MS Frontpage

References

1. Dr. Karen Meagher (University of Regina, Canada)

   - **Website:** uregina.ca/~meagherk
   - **Email:** karen.meagher@uregina.ca
   - **Phone:** +1-306-585-4886

2. Prof. Shaun M. Fallat (University of Regina, Canada)

   - **Website:** math.uregina.ca/~sfallat
   - **Email:** shaun.fallat@uregina.ca
   - **Phone:** +1-306-585-4107
   - **Fax:** +1-306-585-4020

3. Prof. Saieed Akbari (Sharif University of Tech., Iran)

   - **Website:** sharif.ir/~s_akbari
   - **Email:** s_akbari@sharif.ir
   - **Phone:** +98-21-6616-5612
   - **Fax:** +98-21-6600-5117