

**Date of Birth:** December 23rd , 1978

**Place of Birth:** Isfahan, Iran

**E-mail:** ghandeh@mathstat.dal.ca

**Web-page:** <http://www.mathstat.dal.ca/~ghandeh>

**PRESENT POSITION**

Postdoctoral Fellow  
Department of Mathematics and Statistics  
Dalhousie University  
Halifax, Nova Scotia, Canada, B3H 3J5.

**RESEARCH INTERESTS**

Abstract Harmonic Analysis,  
Functional Analysis,  
Graph Theory and Combinatorial Structures.

**EDUCATION**

University of Waterloo Waterloo, Canada  
Received Ph.D. in Pure Mathematics.  
Duration: 2005- 2010.  
Supervisors: Brian Forrest and Nico Spronk.  
Thesis: Harmonic analysis of Rajchman algebras.

Concordia University Montreal, Canada  
Received M.Sc. in Pure Mathematics.  
Duration: 2003-2005.  
Supervisor: Benoit Larose.  
Thesis: Independent Sets in Graph Products via Harmonic Analysis.

Sharif University of Technology Tehran, Iran  
Received M.Sc. in Pure Mathematics.  
Duration: 2001-2003.  
Supervisor: Ebadollah S. Mahmoodian.  
Thesis: On Defining Sets in Latin Squares.

Isfahan University of Technology Isfahan, Iran  
Received B.Sc. in Civil Engineering, Major in Structure.  
Duration: 1997-2001.

**HONOR/AWARDS**

- Ontario Graduate Scholarship, \$15000, (Sept. 2009- Aug. 2010)
- Ontario Graduate Scholarship (international student), \$15000, (Sept. 2008- Aug. 2009)
- President's Graduate Scholarship, \$20000, (Sept. 2008- Aug. 2010)
- University of Waterloo Special Graduate Scholarship, \$7324, (Jan. 2008- Apr. 2008)
- ISM Scholarship, \$19000, (Declined)
- Provost Doctoral Entrance Award for Women, \$5000, (Sept. 2005- Aug. 2006)
- Concordia University International Tuition Fee Remission Award, \$7000 (Sept. 2004- Apr. 2005)
- Power Corporation of Canada Graduate Fellowship, \$5000 (Sept. 2004- Apr. 2005)

### **SAMPLE of TEACHING EXPERIENCE**

Dalhousie University 2010 Halifax, Canada  
**Instructor** of "Introduction to Complex Variables".

University of Waterloo 2008 Waterloo, Canada  
**Instructor** of "Linear Algebra for Engineerings".

Concordia University 2005 Montreal, Canada  
**Instructor** of "Algebra and Functions".

### **SEMINARS & TALKS**

**Invited speaker:** *Department of Mathematics and Statistics* at Dalhousie university, 2009.

**Main speaker:** *Banach Algebra and its Applications* at Stefan Banach International Mathematical Center in Będlewo, 2009.

**Invited speaker:** *Canadian Harmonic Analysis Symposium* at University of Alberta, 2009.

**Invited speaker:** *Department of Mathematics and Statistics Colloquium* at University of Windsor, 2008.

**Speaker:** *Banach Algebra and its Applications* at Quebec City, Canada, 2007.

**Invited speaker:** *Department of Mathematics and Computer Science,* Royal Military College of Canada, 2004.

## PUBLICATIONS

- M. Ghandehari, ON THE BANACH ALGEBRA OF RAJCHMAN MEASURES ON  $\mathbb{R}$ , *in preparation*.
- M. Ghandehari, AMENABILITY PROPERTIES OF RAJCHMAN ALGEBRAS OF NON-COMMUTATIVE GROUPS, *in preparation*.
- M. Ghandehari, H. Hatami, and N. Spronk, AMENABILITY CONSTANTS FOR SEMILATTICE ALGEBRAS, *Semigroup Forum*, 72 (2009), no. 2, 279–297.
- M. Ghandehari and H. Hatami, FOURIER ANALYSIS AND LARGE INDEPENDENT SETS IN POWERS OF COMPLETE GRAPHS, *J. Combin. Theory Ser. B.*, 98 (2008), no. 1, 164–172.
- P. Afshani, M. Ghandehari, M. Ghandehari, H. Hatami, R. Tusserkani, X. Zhu, CIRCULAR CHROMATIC INDEX OF GRAPHS OF MAXIMUM DEGREE 3, *Journal of Graph Theory*, 49(4) (2005) pp. 325-335.
- M. Ghandehari, H. Hatami and E.S. Mahmoodian, ON THE SIZE OF THE MINIMUM CRITICAL SET OF A LATIN SQUARE, *Journal of Discrete Mathematics*, 293 (2005), no. 1-3, pp. 121-127.
- S. Akbari, M. Ghandehari, M. Hadian, and A. Mohammadian, ON COMMUTING GRAPHS OF SEMISIMPLE RINGS, *Linear Algebra Appl.*, 390 (2004), pp. 345-355.
- M. Ghandehari, INDEPENDENT SETS IN GRAPH PRODUCTS VIA HARMONIC ANALYSIS, Masters Thesis, Department of Mathematics & Statistics, Montreal, Canada, 2005.
- M. Ghandehari, ON DEFINING SETS IN LATIN SQUARES, Masters Thesis, Department of Mathematical Science, Sharif University of Technology, Tehran, Iran, Aug 2003.