

## Curriculum Vitae

Ebrahim Samei

### Personal information

**Name:** Ebrahim Samei

**Citizenship:** Permanent Resident of Canada, Iranian.

**Languages:** Persian (maternal), English (fluent), French (intermediate).

**Address:** Department of Mathematics and Statistics, University of Saskatchewan,  
142 McLean Hall, 106 Wiggins Road, Saskatoon, SK, S7N 5E6, CANADA.

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### Education

B.Sc, University of Shahid Beheshti, 09/1994-06/1998, Tehran, Iran.

M.Sc, Sharif University of Technology, 09/1998-06/2000, Tehran, Iran.

Ph.D, University of Manitoba, 01/2001-10/2005, Winnipeg, Canada.

Ph.D. Thesis Advisor: Professor Fereidoun Ghahramani.

### Current Position

Assistant Professor, Department of Mathematics and Statistics, College of Arts and  
Science, University of Saskatchewan. 07/2008-present.

### Past Positions

Postdoctoral Fellow, Ecole Polytechnique Fédérale de Lausanne, 10/2005-12/2006.

NSERC Postdoctoral Fellow, Dept. of Pure Math., U. of Waterloo, 01/2007-12/2008.

### Research Interests

Harmonic Analysis, Banach algebras, Operator spaces.

### Awards and Fellowships

- PIMS Postdoctoral Fellowship, University of Regina, 01/2009-01/2010 (declined).
- NSERC Postdoctoral Fellowship, 01/2007-12/2008.
- Postdoctoral Fellowship, Ecole Polytechnique Fédérale de Lausanne, 9/2005-12/2006.
- University of Manitoba Graduate Fellowship, 04/2003-12/2004.
- Graduate Award for Excellence in Mathematics for 2004-2005.
- Graduate Award for Excellence in Mathematics for 2002-2003.
- Department of Mathematics Graduate Fellowship, 01/2001-09/2003.

### Publications

- (1) **E. Samei**, Bounded and completely bounded local derivations from certain commutative semisimple Banach algebras, *Proc. Amer. Math. Soc.* **133** (2005), 229-238.
- (2) **E. Samei**, Approximately local derivations, *J. London Math. Soc.* (2) **71** (2005), no. 3, 759-778.
- (3) **E. Samei**, Hyper-Tauberian algebras and weak amenability of Figà-Talamanca-Herz algebras, *Journal of Functional analysis*, **231** (2006), no. 1, 195-220.
- (4) **E. Samei**, Non-reflexivity of the derivation space from Banach algebras of analytic functions, *Proc. Amer. Math. Soc.* **135** (2007), no. 7, 2045–2049.

- (5) **E. Samei**, Weak amenability and 2-weak amenability of Beurling algebras, *J. Math. Anal. Appl.*, **346** (2008) 451-467.
- (6) **E. Samei**, Local properties of the Hochschild cohomology of  $C^*$ - algebras, *J. Australian Math. Soc.* **84** (2008), 117-130.
- (7) A. Azimifard, **E. Samei**, N. Spronk, Amenability properties of the centres of group algebras, *Journal of Functional Analysis*, 256 (2009), no. 5, 1544-1564.
- (8) B. E. Forrest, **E. Samei**, N. Spronk, Weak amenability of the Fourier algebra of a compact group, *Indiana Univ. Math. J.*, 58 (2009), 1379-1394.
- (9) B. D. Park and **E. Samei**, Smooth and weak synthesis of the anti-diagonal in Fourier algebras of Lie groups, *Journal of Lie Theory*, **19** (2009), 275-290.
- (10) B. E. Forrest, **E. Samei**, N. Spronk, Convolutions on compact groups and Fourier algebras of coset spaces, *Studia Math.*, **196** (3) (2010) 223-249.
- (11) M. Brannan and **E. Samei**, The similarity problem for Fourier algebras and corepresentations of group von Neumann algebras, *Journal of Functional Analysis*, 259 (2010) 2073-2097.
- (12) **E. Samei**, R. Stokke and N. Spronk, Biflatness and pseudo-amenability of Segal algebras, *Canadian J. Math.* 62 (2010), 845-869.
- (13) **E. Samei**, Reflexivity and hyperreflexivity of  $n$ -cocycles from group algebras, *Proc. Amer. Math. Soc.*, 139 (2011) 163-176.
- (14) B. E. Forrest, **E. Samei**, H. H. Lee, Projectivity of modules over Fourier algebras, *Proc. London. Math. Soc.* to appear (32 pages).
- (15) F. Ghahramani, **E. Samei**, Y. Zhang, Bounded approximate amenability of Beurling algebras, *J. Australian Math. Soc.* to appear (15 pages).

- (16) B. E. Forrest, **E. Samei**, H. H. Lee, Projectivity of modules over Segal algebras, *Houston J. Math.*, to appear (20 pages).

#### **Papers submitted:**

- (1) H. H. Lee and **E. Samei**, Beurling-Fourier algebras, operator amenability and Arens regularity, (42 pages), submitted.
- (2) M. Ghasemi, S. Kuhlmann, E. Samei , The moment problem for continuous positive semidefinite linear functionals.

#### **Papers in preparation:**

- (1) H. H. Lee, E. Samei, N. Spronk, Some Beurling-Fourier algebras are operator algebras.
- (2) M. Daws, M. Brannan, E. Samei, Corepresentations of Kac algebras and locally group quantum groups.

#### **Teaching Experience**

- **Introduction to Calculus**, University of Manitoba, 01/2004-04/2004.
- **Calculus II**, University of Manitoba, 01/2005-04/2005.
- **An introduction to Banach algebras**, Doctoral School, Ecole Polytechnique Fédérale de Lausanne, 03/2006-06/2006.
- **Calculus for Honours in Math**, University of Waterloo, 01/2007-04/2007.
- **Calculus for Science**, University of Waterloo, 08/2007-12/2007.
- **MATH 124-Calculus for Engineers**, University of Saskatchewan, 01/2009-04/2009.
- **MATH 373-Integration Theory and Lebesgue integrals**, University of Saskatchewan, 01/2009-04/2009.
- **MATH 875-Functional analysis**, University of Saskatchewan, 09/2009-12/2009.

- **MATH 124-Calculus for Engineers**, University of Saskatchewan, 01/2010-04/2010.

### Invited Conference Talks

- **2004 Canadian Symposium on Abstract Harmonic Analysis**, University of Western Ontario, London, Canada, May 2004. Topic: *Approximately local derivations*.
- **2005 Canadian Symposium on Abstract Harmonic Analysis**, University of Waterloo, Waterloo, Canada, June 2005. Topic: *Weak amenability of Figa-Talamanca Herz Algebras*
- **Second Northwest Functional Analysis Symposium**, Banff International Research Station, Banff, Alberta, Canada, March 2005. Topic: *Local operators and Hyper-Tauberian algebras*.
- **The 2006 Istanbul International Conference on Abstract Harmonic Analysis**, Koc University, Istanbul, Turkey, July 2006. Topic: *On the local property of Hochschild cohomology of a Banach algebra*.
- **CMS-MITACS Joint Conference 2007**, Session: Banach Algebras and Abstract Harmonic Analysis, University of Manitoba, Winnipeg, May-June 2007. Topic: *2-weak amenability of Beurling algebras* .
- **Banach algebras and their applications 2007**, Université Laval, Québec City, Québec, Canada, July 2007. Topic: *2-weak amenability of Beurling algebras* .
- **Operator Spaces and Group Algebras**, Banff International Research Station, Banff, Alberta, Canada, August 2007. Topic: *Convolutions on compact groups and Fourier algebras of coset spaces*.
- **2008 Canadian Symposium on Abstract Harmonic Analysis**, Carleton University, Ottawa, Canada, May 2008. Topic: *Biflatness and Pseudo-Amenability of Segal algebras*.

- **Canadian Abstract Harmonic Analysis Symposium 2009 (Laufest)**, University of Alberta, Edmonton, Alberta - May 2009. Topic: *Smooth and weak synthesis of the anti-diagonal in Fourier algebras of Lie groups.*
- **Banach algebras and their applications 2009**, Stefan Banach International Mathematical Center, Będlewo, Poland, July 2009. Topic: *Beurling-Fourier algebras, Amenability and Arens regularity.*
- **Third Northwest Functional Analysis Symposium**, Banff International Research Station, Banff, Alberta, Canada, October 2009. Topic: *The corepresentations of group von Neumann algebras.*
- **2009 CMS Winter Meeting**, Session: Banach Algebras and Abstract Harmonic Analysis, University of Windsor, On, Canada, December 2009. Topic: *The similarity problem for Fourier algebras and corepresentations of group von Neumann algebras.*

#### Invited Seminar/Colloquium Talks

- **University of Leeds**, Leeds, UK, July 2006. Topic: *On the local property of Hochschild cohomology of a Banach algebra.*
- **University of Winnipeg**, Winnipeg, MB, Canada, February 2007. Topic: *Spectral synthesis and local derivations.*
- **Université Laval**, Université Laval, Québec City, Québec, Canada, March 2007. Topic: *On the local property of Hochschild cohomology of a Banach algebra.*
- **University of Windsor**, Windsor, ON, Canada, October 2007. Topic: *Spectral synthesis and operator spaces.*

#### Conference Talks

- **Banach algebras and their applications**, University of Alberta, Edmonton, Canada, August 2003. Topic: *Completely bounded local derivations from the Fourier algebra  $A(G)$* .
- **Banach Algebras and their Applications**, University of Bordeaux 1, Bordeaux, France, July 2005. Topic: *Hyper-Tauberian algebras and weak amenability of Figa-Talamanca Herz Algebras*.
- **35th Canadian operator symposium (COSy)**, University of Guelph, ON, Canada, June 2007. Topic: *On the local property of Hochschild cohomology of a  $C^*$ -algebra*.
- **Third Annual Meeting of the Prairie Network for Research in Mathematical Science**, University of Saskatchewan, Saskatoon, SK, Canada, April-May 2009. Topic: *Operator amenability and Arens regularity of Beurling-Fourier algebras of  $SU(2)$* .
- **37th Canadian Operator Symposium (COSy)**, University of Regina, SK, Canada, 2009. Topic: *Projectivity of modules over Segal algebras*.
- **CMS/CSHPM Summer Meeting 2009**, Session: Topological Algebra, Topology, and Functional Analysis, Memorial University of Newfoundland, St. John's Newfoundland, June 2009. Topic: *Approximate amenability of Beurling algebras*.

### Conferences/workshops Participated

- **32th Canadian operator symposium (COSy)**, University of Waterloo, ON, Canada, June 2004.
- **2006 Canadian Symposium on Abstract Harmonic Analysis**, University of Manitoba, Winnipeg, Manitoba, Canada, May 2006.
- **London Mathematical Society Workshop in Functional Analysis**, University of Leeds, Leeds, UK, July 4th-7th, 2006.

- **Thematic Program on Operator Algebras**, Fields Institute, July-December, 2007.
- **36th Canadian Operator Symposium (COSy)**, University of Toronto, ON, Canada, June 2008.

**Research visitors:**

- Fereidoun Ghahramani, University of Manitoba, MB, Canada, September 2008.
- Hun Hee Lee, Chonbuk National University, Korea, November 2008.
- Hun Hee Lee, Chonbuk National University, Korea, February 2009.
- Nico Spronk, University of Waterloo, MB, Canada, May 2009.
- Mahya Ghandehari, University of Waterloo, ON, Canada, October-November 2009.
- Michael Brannan, Queen's University, ON, Canada, November 2009.
- Douglas Farenick, University of Regina, Sk, Canada, November 2009.
- Hun Hee Lee, Chonbuk National University, Korea, February 2010.