

# Curriculum Vitae

Nasser Golestani, Ph.D., Mathematics

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## 1 Personal Information

- Name: Nasser Golestani
- Born: Iran, March 3, 1986
- Address: Department of Pure Mathematics, Faculty of Mathematical Sciences, Tarbiat Modares University, Jalal Ale Ahmad Highway, P.O. Box 14115–134, Tehran, Iran
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## 2 Affiliation

- Assistant Professor, Department of Mathematics, Faculty of Mathematical Sciences, Tarbiat Modares University, Tehran, Iran, August 2015–now
- Non-resident Researcher, School of Mathematics, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran, Sept 2015–Sept 2016
- Student Researcher, School of Mathematics, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran, Sept 2012–Sept 2015

## 3 Education

- B.Sc. (with honours): Mathematics, University of Tehran, Iran, 2004–2009
- M.Sc. (with honours): Mathematics, University of Tehran, Iran, 2009–2011
- Ph.D. (with honours): Mathematics, Tarbiat Modares University, Tehran, Iran, 2011–2015

## 4 Theses

- Ph.D. thesis: *The category of Bratteli diagrams and functors on the category of  $C^*$ -algebras*, Supervisors: Prof. Massoud Amini (Tarbiat Modares University) and Prof. George A. Elliott (University of Toronto), March, 2015
- M.Sc. thesis: *Group-valued continuous functions*, Supervisor: Dr. F. Ayatollah Zadeh Shirazi, University of Tehran, September, 2011

- B.Sc. Project: *Haar measure on locally compact Hausdorff groups*, University of Tehran, 2009

## 5 Honours and Prizes

- Third Prize, 14th International Mathematics Competition for University Students (IMC), Bulgaria, August 2007
- Second Prize, 31th National Mathematics Competition for University Students, Iranian Mathematical Society, Mashhad, Iran, May 2007
- Second Prize, 15th International Mathematics Competition for University Students (IMC), Bulgaria, July 2008
- First Prize, 32th National Mathematics Competition for University Students, Iranian Mathematical Society, Tehran, Iran, May 2008
- Second Prize, 10th International Scientific Olympiad for University Students (Mathematics), Tehran, Iran, July 2009
- Rank one among graduates of Pure Mathematics, University of Tehran, 2011
- Distinguished researcher among graduates, University of Tehran, 2011
- Rank one in entrance exam for Ph.D., Tarbiat Modares University, 2011
- Member of Iran's National Elites Foundation, 2008–now
- Research Award, Fields Institute, Toronto, Canada, April–June, 2014 (not used)
- Fellowship, Ministry of Science, Research and Technology (Iran), 2014–2015
- Functional Analysis Award, An Annual Iranian Award, 2016
- First Alimohammadi Prize in Mathematics, 2017

## 6 Research Interests

Operator Algebras, K-theory,  $C^*$ -dynamical Systems, Topology, Mathematical Modelling

## 7 Research Projects

- *Functorial approaches to the classification of separable  $C^*$ -algebras*, Research Project, Institute for Research in Fundamental Sciences (IPM), Tehran, 2016–2017
- *The category of Cantor minimal systems*, Research Project, Institute for Research in Fundamental Sciences (IPM), Tehran, 2015–2016
- *Discretization of topological and quantum spaces*, Research Project (with Massoud Amini), Institute for Research in Fundamental Sciences (IPM), Tehran, 2014–2015
- *Functorial structure of Bratteli diagrams*, Research Project (with Massoud Amini), Institute for Research in Fundamental Sciences (IPM), Tehran, 2013–2014

- *The category of Bratteli diagrams*, Research Project (with Massoud Amini), Institute for Research in Fundamental Sciences (IPM), Tehran, 2012–2013
- *Completion of modal algebras*, Research Project, Institute for Research in Fundamental Sciences (IPM), Tehran, 2010–2011

## 8 Papers

### 8.1 Published Papers

- *Discretization of topological spaces* (with M. Amini), *Quart. J. Math.*, vol. 67, no. 4, 781–799, 2016
- *The category of Bratteli diagrams* (with M. Amini and G. A. Elliott), *Canad. J. Math.*, vol. 67, no. 5, 990–1023, 2015
- *On classifications of transformation semigroups: indicator sequences and indicator topological spaces* (with F. Ayatollah Zadeh Shirazi), *Filomat*, vol. 26, no. 2, 107–123, 2012
- *Functional Alexandroff spaces* (with F. Ayatollah Zadeh Shirazi), *Hacet. J. Math. Stat.*, vol. 40, no. 4, 515–522, 2011
- *More about functional Alexandroff topological spaces* (with F. Ayatollah Zadeh Shirazi), *Scientia Magna*, vol. 6, no. 4, 64–69, 2010

### 8.2 Preprints

- *Simple Tracially  $\mathcal{Z}$ -absorbing  $C^*$ -algebras* (with M. Amini, S. Jamali, and N. C. Phillips), 35 pages, 2018
- *Tracial Rokhlin property for finite group actions on simple non-unital  $C^*$ -algebras* (with M. Forough), 53 pages, arXiv:1711.10818
- *The category of ordered Bratteli diagrams* (with M. Amini and G. A. Elliott), submitted, 31 pages, arXiv:1509.07246
- *Generalized quasi-Baer  $*$ -rings* (with M. Ahmadi and A. Moussavi), submitted, 34 pages

## 9 Teaching Experience

- Real Analysis, lecturer, Tarbiat Modares University, 2016–2018
- Calculus for Engineers, lecturer, Tarbiat Modares University, 2013–2017
- Calculus II, lecturer, College of Science, University of Tehran, 2012
- Real Analysis, assistant lecturer, Tarbiat Modares University, 2012 and 2013
- Mathematical Olympiad for university students, University of Tehran, 2010
- Mathematical Analysis III, Complex variables, Calculus I, II, Algebra I, Set theory, assistant lecturer, University of Tehran, 2007–2011

- Mathematical Logic, Applied Linear Algebra, Calculus, Basic Geometry, Elementary Number Theory, Copmplex Variables, Payam-e-Nour University, Varamin Branch, Iran, 2013–2015

## 10 Conference Presentations

- Weakly Seminar on Operator Algebra and its Applications (OAA), Institute for Research in Fundamental Sciences, Tehran, Iran, 2012–2018
- *The category of Bratteli diagrams*, The 21th Seminar on Mathematical Analysis and its Applications, Islamic Azad University, Hamedan, Iran, November 27, 2014
- *The category of Bratteli diagrams*, Frontiers in Mathematical Sciences, 3rd Conference, Institute for Research in Fundamental Sciences, Tehran, Iran, December 29, 2014
- *C\*-algebras and dynamical systems, a categorical approach*, 46th Annual Iranian Mathematics Conference (AIMC 46), Yazd University, Yazd, Iran, August 26, 2015
- *C\*-algebras and Topological Dynamics*, Mini course during The Third Workshop on Operator Algebras and its Applications, IPM, Tehran, Iran, January 5–6, 2016
- *C\*-algebras and ordered Bratteli diagrams*, The 4th Seminar on Harmonic Analysis and Applications, Kharazmi University, Tehran, Iran, January 21, 2016
- *A Workshop on Crossed Products of C\*-algebras and Locally Compact Groups* (with M. Amini and H. Nikpey), Kharazmi University, Tehran, Iran, January 22, 2016
- *K-theory for C\*-algebras*, University of Tehran, Tehran, Iran, May 1, 2016
- *C\*-dynamical systems*, University of Tehran, Tehran, Iran, May 8, 2016
- *The category of ordered Bratteli diagrams*, Special Week on Operator Algebras, Research Center for Operator Algebras, East China Normal University, Shanghai, China, June 6–10, 2016
- *A categorical approach to classification of C\*-algebras*, The Fourth Workshop on Operator Algebras and its Applications, IPM, Tehran, Iran, December 6–8, 2016
- *Classification of C\*-algebras via Elliott invariant and Cuntz semigroup*, Mini course during The Fourth Workshop on Operator Algebras and its Applications, IPM, Tehran, Iran, December 3–4, 2016
- *Introduction to Coarse Geometry and C\*-algebras*, Mini course during The Fifth Workshop on Operator Algebras and its Applications, IPM, Tehran, Iran, February 3–4, 2018
- *Tracial Rokhlin property for finite group actions on non-unital simple C\*-algebras*, The Fifth Workshop on Operator Algebras and its Applications, IPM, Tehran, Iran, February 5–8, 2018

## 11 Conference Participation

- A Workshop on Operator Structure of Fourier Algebra, Institute for Research in Fundamental Sciences, Tehran, Iran, July 16–17, 2012

- Weakly Seminar on Operator Algebra and its Applications (OAA), Institute for Research in Fundamental Sciences, Tehran, Iran, 2012–2015
- Two-day Meeting on NCG and Physics, School of Physics, Institute for Research in Fundamental Sciences, Tehran, Iran May 8–9, 2013
- A Workshop on Banach Algebras and Harmonic Analysis, Institute for Research in Fundamental Sciences, Tehran, Iran, May 15–16, 2013
- Frontiers in Mathematical Sciences, 2nd Conference, Sharif University of Technology, December 25–27, 2013
- The 2nd Seminar on Harmonic Analysis and Application, Institute for Research in Fundamental Sciences, Tehran, Iran, January 5–7, 2014
- A Workshop on Quantum Groups and Poisson Boundaries, Institute for Research in Fundamental Sciences, Tehran, Iran, June 7–9, 2014
- A Workshop on Mechanism Designs and Computational Modelling of Social Systems, Institute for Research in Fundamental Sciences, Tehran, Iran, November 19–20, 2014
- The 21th Seminar on Mathematical Analysis and its Applications, 26–27 November 2014, Islamic Azad University, Hamedan, Iran
- Frontiers in Mathematical Sciences, 3rd Conference, Institute for Research in Fundamental Sciences, Tehran, Iran, Dec 29, 2014–Jan 1, 2015
- The Workshop on Operator Algebras and its Applications, Institute for Research in Fundamental Sciences, Tehran, Iran, January 7–9, 2015
- Short Course and Workshop on Reduced Group  $C^*$ -algebras, Institute for Research in Fundamental Sciences, Tehran, Iran, April 5–6, 2015
- 4th Meeting on Contemporary Mathematics, Institute for Research in Fundamental Sciences, Tehran, Iran, May 10, 2015
- Focus Programme in  $C^*$ -algebras, Workshop on  $C^*$ -algebras: Geometry and Actions, Munster, Germany, July 13–17, 2015
- 46th Annual Iranian Mathematics Conference (AIMC 46), Yazd University, Yazd, Iran, August 25–28, 2015
- Seminar on Challenges for Mathematical Sciences, Tarbiat Modares University, Tehran, Iran, October 21–22, 2015
- The Third Workshop on Operator Algebras and its Applications, Institute for Research in Fundamental Sciences, Tehran, Iran, January 7–10, 2016
- The 4th Seminar on Harmonic Analysis and Applications, Kharazmi University, Tehran, Iran, January 20–21, 2016
- The 4th Seminar on Functional Analysis and its Applications, Ferdowsi University of Mashhad, Mashhad, Iran, March 2–3, 2016

- A Workshop on Approximation Properties of von Neumann Algebras, IPM, Tehran, Iran, March 5 and 7, 2016
- Special Week on Operator Algebras, Research Center for Operator Algebras, East China Normal University, Shanghai, China, June 6–10, 2016
- Structure and Classification of  $C^*$ -algebras, IMPAN, Warsaw, Poland, November 21–25, 2016
- The Fourth Workshop on Operator Algebras and its Applications, Institute for Research in Fundamental Sciences, Tehran, Iran, December 6–8, 2016
- School on Dynamical Systems and Ergodic Theory, Tarbiat Modares University, Tehran, Iran, February 13–17, 2017
- The Fifth Workshop on Operator Algebras and its Applications, IPM, Tehran, Iran, February 5–8, 2018
- TMU–ICTP School and Conference on Dynamical Systems and Ergodic Theory, Tarbiat Modares University, Tehran, Iran, May 5–10, 2018
- (upcoming) The International Workshop on Operator Theory and Applications (IWOTA), East China Normal University, Shanghai, July 23–27, 2018