

Ali Rajaei

Education:

- PhD: Mathematics, Princeton University, New Jersey, USA, Nov 94-June 98
- MS: Mathematics, Princeton University, New Jersey, USA, Sept 93-Oct 94
- BS: Mathematics, Sharif University, Tehran, Sept 90-Aug 93, Valedictorian

Positions held:

- Assistant Professor, Tarbiat Modares Univ, 10/2010- present
- Senior Financial Modeler, RMS Inc, 10/2007-10/2010
- Visiting Scholar, Dept of Math, Berkeley University, 4/2007- 10/2007
- Member of Technical Staff, Magma Design Automation Inc., 4/2006- 4/2007
- Visiting Scholar, Dept of Math, Stanford University, 11/2004-4/2006
- Member of Technical Staff, Anadigics, Inc. (Previously Tavanza, Inc.), 6/2001-11/2004
- Postdoctoral Fellow, McGill University, Canada, 6/98-6/2001
- Lecturer in Mathematics, Princeton University, 9/97-6/98

Awards:

- Gold Medal, National Academy of Sciences, Mathematics Competition, Tehran, 1993
- Silver Medal, International Mathematics Olympiad, 1990, Beijing
- Gold Medal, National Mathematics Olympiad, 1990, Tehran
- Silver Medal, National Physics Olympiad, 1990, Tehran

Patents:

- US Patent Number 6,856,004: Compact layout for a semiconductor device

Selected Invited Addresses:

- Nankai Inst. of Mathematics, Tianjin, China, May 1993
- Mathematics Colloquium, Univ of Wisconsin at Madison, January 94
- CRM, Montreal, October 98
- CNTA, Winnipeg, June 99
- QVNTS, Montreal, December 99
- CMS, Montreal, November 2000
- National Academy of Sciences, Tehran, October 2011
- Number Theory Seminar, Univ of Illinois at Chicago, September 2014

Selected Publications:

- Lowering the levels of residual Hilbert modular Galois representations, PhD Thesis, Princeton University, June 1998
- On the levels of mod ℓ Hilbert modular forms, Journal für die Reine und Angewandte Mathematik 537 (2001): 33-66.
- (with B. Heidaryan) Biquadratic Pólya fields with only one quadratic Pólya subfield, Journal of Number Theory 143 (2014): 279-285.
- (with B. Heidaryan) Some non-Pólya biquadratic fields with low ramification, Revista Matemática Iberoamericana 33 (2017), 1037-1044
- (with A. Maarefparvar) Pólya S_3 extensions of Q , To appear in: Proceedings of the Royal Society of Edinburgh Section A: Mathematics