



Omid Baghani

omid.baghani@gmail.com

Current Position

2014 Until Now **Faculty Member**, *Hakim Sabzevari University, Faculty of Mathematics and Computer Science.*

Education

2001-2005 **B.Sc.**, *Payam Noor University of Sabzevar*, Sabzevar, Iran.
Applied Mathematics

2006-2008 **M.Sc.**, *Hakim Sabzevari University*, Sabzevar, Iran.
Applied Mathematics

2009-2013 **Ph.D.**, *Ferdowsi University of Mashhad*, Mashhad, Iran.
Applied Mathematics (Numerical Analysis (with Differential and Integral Equations specialization))

Areas of Expertise

- Calligraphy
- Error Estimate
- Optimal Control
- Network Flows
- Fixed Point Theory
- Multi-objective Programming

Courses Taught

- Calculus I,II
- Engineering Mathematics
- Approximation Theory
- Optimal Control and Variational calculus
- Numerical Analysis
- Advanced Nonlinear Programming
- Advanced Linear Programming
- Advanced Operations Research

Technical Reviewer

- Iranian Journal of Numerical Analysis and Optimization (IJNAO).
- Sahand Communications in Mathematical Analysis (SCMA).
- Annals of Fuzzy Mathematics and Informatics (AFMI).

<http://www.jm.um.ac.ir/>
<http://www.scma.maragheh.ac.ir/>
<http://www.afmi.or.kr/>

Journal Papers

- [1] O. Baghani, H. Baghani, A new contraction condition and its application to weakly singular Volterra integral equations of the second kind, *J. Fixed Point Theory Appl.*, 19 (2017) 1–15. (ISI)
- [2] H. Baghani, J. Farokhi-Ostad, O. Baghani, Robust error analysis of solutions to nonlinear Volterra integral

Hakim Sabzevari University, Sabzevar, Iran

☎ +989153718921 • ☎ +985144013207 • ✉ omid.baghani@gmail.com

equation in L^p spaces, *Australian J. Math. Anal. Appl.*, 13 (2016) 1–7.

[3] O. Baghani, On fractional Langevin equation involving two fractional orders, *Commun. Nonlinear Sci. Numer. Simulat.*, 42 (2017) 615–619. (ISI)

[4] M. Ghachpazan, O. Baghani, A stopping rule for an iterative algorithm in systems of integral equations, *Comp. Appl. Math.*, 33 (2014) 325–332. (ISI)

[5] O. Baghani, M. Gachpazan, H. Baghani, Existence, uniqueness and stability of solutions for a class of nonlinear integral equations under generalized Lipschitz condition, *Indian J. Pure Appl. Math.*, 43 (2012) 309–321. (ISI)

[6] M. Janfada, H. Baghani, O. Baghani, On Felbin's type fuzzy normed linear spaces and fuzzy bounded operators, *Iranian J. Fuzzy Systems*, 8 (2011) 113–117. (ISI)

[7] M. Eshaghi Gordji, H. Baghani, O. Baghani, On existence and uniqueness of solutions of a nonlinear integral equation, *J. Appl. Math.*, Volume 2011, Article ID 743923, 7 pages.

[8] M. Ghachpazan, O. Baghani, Hyers–Ulam stability of nonlinear integral equation, *Fixed Point Theory Appl.*, Volume 2010, Article ID 927640, 6 pages. (ISI)

[9] M. Ghachpazan, O. Baghani, Hyers–Ulam stability of Volterra integral equation, *Int. J. Nonlinear Anal. Appl.*, 1 (2010) 22–41. (ISI)

Some Conference Papers

[1] O. Baghani, Distribution functions, decreasing rearrangements and $L_{p,\alpha}$ spaces, The 5th Seminar on Harmonic Analysis and Applications, (2017), Ferdowsi University of Mashhad, Iran.

[2] O. Baghani, Z. Ghazvini, Weighted Hardy-type inequalities with sharp constants in L_p spaces, The 5th Seminar on Harmonic Analysis and Applications, (2017), Ferdowsi University of Mashhad, Iran.

[3] M. J. Maleki, O. Baghani, M. Mashreghi, Spectral methods for Volterra integral equations of the first kind, The 47th Annual Iranian Mathematics Conference, (2016), Kharazmi University, Karaj, Iran.

[4] O. Baghani, A new norm associated with fractional integral equation, The 4th Seminar on Functional Analysis and its Applications, (2016), Ferdowsi University of Mashhad, Iran.

[5] H. Baghani, J. F. Ostad, O. Baghani, A new method for error analysis in generalized Volterra integral equations in L_p space, The 46th Annual Iranian Mathematics Conference, (2015), Yazd University, Iran.

[6] O. Baghani, On existence and uniqueness of solutions of a nonlinear integral equation, The 45th Annual Iranian Mathematics Conference, (2014), Semnan University, Iran.

[7] M. Gacpazan, O. Baghani, Z. Ghazvini, Numerical solution of nonlinear integral equations using Harr wavelets, The 44th Annual Iranian Mathematics Conference, (2013), Ferdowsi University of Mashhad, Iran

[8] S. Effati, O. Baghani, H. Baghani, A New Approac for estimation of attraction region and asymptotic stability a system of nonlinear ODE, The 40th Annual Iranian Mathematics Conference, (2010), University of Sharif Tecnology, Tehran, Iran