
Mathematical CV of Mehdi Hassani

Short version

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Personal Information

Birth: 23 July 1979, Zanjan - Iran.

Married, no child.

Present Status: Co-tutelle Ph.D. student in IASBS and IMB, under supervision of the professors M.M. Shahshahani and J-M. Deshouillers.

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▷ Department of Mathematics, Institute for Advanced Studies in Basic Sciences (IASBS), P.O. Box 45195-1159, Zanjan, Iran.

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Education:

▷ B.Sc., Shahid Rajaei Teacher Training University (Tehran), 2002.

▷ M.Sc., Institute for Advanced Studies in Basic Sciences (Zanjan), 2005.

Fields of Interest: Analytic Number Theory, Sequences and series, Inequalities, Approximation and expansions, Special functions, Enumeration, History and biography, Mathematics education.

Selected Publications

▷ Master Thesis: Approximation of Prime Number Distribution Functions and Inequalities Involving Primes, (Only thesis in Department of Mathematics in IASBS with full rank 20), Supervisor: J. Rooin, Refereeing Committee: B. Mehri, M.M. Shahshahani, R. Zaare Nahandi, With Attention of: M. Waldschmidt, July 2005.

▷ Some New Inequalities Between Important Means and Applications to Ky Fan - type inequalities, (with J. Rooin), *Mathematical Inequalities & Applications*, Volume 10, Number 3 (2007), 517-527, MR2339545.

Professional Service

Positions:

- ▷ Reviewer of the Mathematical Reviews (*MathSciNet*) - 24 articles.
- ▷ Reviewer of the Zentralblatt MATH - 41 articles and 2 following books:
 - ◊ Yury A. Brychkov, *Handbook of Special Functions: Derivatives, Integrals, Series and Other Formulas*, Taylor & Francis Ltd. (2008).
 - ◊ A. Sîntămariă, *A generalization of Euler's constant*, Colecția Matematica. Cluj-Napoca: Mediamira, (2008).
- ▷ Book Reviewer of the Mathematical Association of America (*MAA*) - the following books:
 - ◊ Glyn Harman, *Prime-Detecting Sieves*, Princeton University Press (2007).
 - ◊ M. Ram Murty, *Problems in Analytic Number Theory* (second edition), Springer (2008).
 - ◊ J.C.A. Boeyens and D.C. Levendis, *Number Theory and the Periodicity of Matter*, Springer (2008).
 - ◊ H. Davenport, *Multiplicative Number Theory* (third edition), Springer (2000).
 - ◊ R. A. Mollin, *Fundamental Number Theory with Applications* (second edition), Chapman & Hall/CRC (2008).
 - ◊ Amparo Gil, Javier Segura, and Nico M. Temme, *Numerical Methods for Special Functions*, SIAM (2008).
 - ◊ Cuyt, Petersen, Verdonk, Waadeland and Jones, *Handbook of Continued Fractions for Special Functions*, Springer (2008).
 - ◊ Gérald Tenenbaum, *Introduction to Analytic and Probabilistic Number Theory*, Cambridge University Press (2008).
 - ◊ L. Kuipers and H. Niederreiter, *Uniform Distribution of Sequences*, Dover Publications (2006).
 - ◊ H.N. Shapiro, *Introduction to the Theory of Numbers*, Dover Publications (2008).
 - ◊ T. Andreescu, D. Andrica, *Number Theory: Structures, Examples, and Problems*, Birkhäuser (2009).

Refereed Articles for the Following Journals and Seminar Proceedings:

- ▷ The Open Mathematics Journal, (ISSN 1874-1177).
- ▷ Applied Mathematics E-Notes, (ISSN 1607-2510, An International Electronic Journal of Mathematics).
- ▷ Applied Mathematics Letters, (ISSN 0893-9659, PERGAMON).
- ▷ Sarajevo Journal of Mathematics, (ISSN 1840-0655, Printed edition).
- ▷ Studia Scientiarum Mathematicarum Hungarica (HU ISSN 0081-6906).
- ▷ Journal of Zhejiang University SCIENCE (ISSN 1009-3095, Monthly).
- ▷ International Symposium on Geometric Function Theory and its Applications (GFTA 2008), Universiti Kebangsaan, Malaysia, November 10-13, 2008.

Memberships:

- ▷ American Mathematical Society (*AMS*).
- ▷ Research Group in Mathematical Inequalities and Applications (*RGMA*).
- ▷ Working Group on Generalized Convexity (*WGGC*).

Other Mathematical Activities

Participation in Seminars and Schools:

- ▷ Explicit Methods in Number Theory (In honour of Henri Cohen), Bordeaux, France - October 2007, Monday 15th - Friday 19th.
- ▷ CIMPA-UNESCO-LEBANON, Summer School: Algebraic Geometry and Arithmetic of Curves, Center for Advanced Mathematical Sciences (CAMS), American University of Beirut, Beirut, Lebanon, July 5-16, 2004.

Speeches:

- ▷ On the Riemann's work in the theory of prime numbers, IASBS, Zanjan, Spring 2009.
- ▷ Siegel Zero, IMB, Talence - Bordeaux, Winter 2008.
- ▷ Inequalities Involving Prime Numbers, IMB, Talence - Bordeaux, Winter 2007.
- ▷ Distribution of Prime Numbers in Arithmetic Progressions, IASBS, Zanjan, Spring 2007.

A Selection of Courses Taught:

- ▷ Discrete Mathematics: IASBS, Spring 2009.
- ▷ History of the Mathematics: Azad University of Zanjan, various semesters.
- ▷ Elementary Number Theory: Payame-Noor University of Zanjan, various semesters.
- ▷ Calculus III: Payame-Noor University of Zanjan, Fall-Winter 2006.
- ▷ Calculus II: IASBS & Payame-Noor University of Zanjan & Azad University of Zanjan, various semesters.
- ▷ Calculus I: Payame-Noor University of Zanjan & Azad University of Zanjan, various semesters.
- ▷ Maple V Software - Elements and Elementary Programming: Payame-Noor University of Zanjan, Summer 2005.
- ▷ Number Theory Problem Solving: Zanjan University, Spring, Fall-Winter 2004 (two semesters).
- ▷ Elementary Number Theory - Preparing to Olympiad: Shahid Beheshti Exceptional Talent Center, Winter 2003.
- ▷ Calculus Problem Solving: Zanjan University, Fall-Winter 2003.
- ▷ Elements of Maple V Software: Shahid Rajaei Teacher Training University, Fall-Winter 1999.

Award: Award of Dr. Manouchehr VESAL for the selected paper "Some New Inequalities Between Important Means and Applications to Ky Fan Types Inequalities (with J. Roojin)", in 14th Seminar on Mathematical Analysis and its Applications, 4-5 February 2004, University of Science and Technology, Tehran, Iran.

Languages: Fluent in Torkish (Azari) and Persian, and more or less in English, and familiar with Arabic and a little with French.