

# HOSSEIN SEIDKHANI

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<b>EDUCATION</b>	<p><b>PhD. in Bioinformatics</b>, Institute of Biochemistry and Biophysics (IBB), <b>Tehran University, Iran</b>, and <b>Department of Brain and Cognition, KU Leuven, Belgium</b>, 2012-2017.</p> <p><b>M.Sc. in Statistics</b>, Major: <b>Mathematical Statistics</b>, <b>Shahid Chamran University</b>, Ahvaz, Iran, 2006-2009.</p> <p><b>B.Sc. in Statistics</b>, Major: <b>Mathematical Statistics</b>, <b>Birjand University</b>, Birjand, Iran, 2001-2005.</p> <p>Diploma of <b>Mathematics and Physics</b>, Bagher al-Olum High School, <b>which only enrolls students that pass a certain exam</b>, 1998-2001.</p>
<b>OBJECTIVE</b>	Continuing my research in a good academic position
<b>RESEARCH INTERESTS</b>	Brain System Biology Neuroinformatics Neuroscience Cognitive science Computational Systems Biology Complex Networks Bioinformatics Machine Learning
<b>HONORS AND AWARDS</b>	Received " <b>Second Place Physics Olympiad</b> " -The West of Country (1999) Received Outstanding student of university (2003) Received University's outstanding teacher (2011) Received Outstanding student of university (2012) Member of National Outstanding Foundation(2015-present)
<b>TEACHING EXPERIENCE</b>	<p><b>Engineering Statistics</b> courses in Oil Industry University, branch of Ahvaz, 2008-2009.</p> <p><b>Biostatistics, Mathematics and Computer Applications in Biosciences</b> courses in Medical Sciences University of Ilam, 2008-2009.</p> <p><b>Mathematical Statistics, Regression, Non Parametric Methods, Analysis of Experiments, and Applied Statistics</b> courses in Payame Noor University of Ilam (my hometown), 2009-2011</p> <p><b>Applied Statistics, Mathematics and Engineering Statistics</b> courses in Bakhtar University of Ilam (my hometown), 2009-2011</p> <p><b>Regression and Non Parametric Methods</b> courses in Qom University (city near Tehran), 2012-2013.</p> <p><b>Bioinformatics and Advanced Bioinformatics-for M.Sc. and PhD students-</b> Shahed university, Tehran, 2014-2015</p>

**Journals:**

- **Hossein Seidkhani**, Andrey R. Nikolaev, Radha Nila Meghanathan, Hamid Pezeshk, Ali Masoudi-Nejad, Cees van Leeuwen. Task Modulates Functional Connectivity Networks in Free Viewing Behavior. *NeuroImage*. 2017; 159; 289-301,  
DOI:10.1016/j.neuroimage.2017.07.066.
- Neda Masoudian, Gholam Hossein Riazi, Ali Afrasiabi, Seyed Mohamad Sadegh Modaresi, Ali Dadras, Shahrbanoo Rafiei, Meysam Yazdankhah, Atiye Lyaghi, Mostafa Jarah, Shahin Ahmadian and **Hossein Seidkhan**. Variations of Glutamate Concentration Within Synaptic Cleft in the Presence of Electromagnetic Fields: An Artificial Neural Networks Study. *Neurochem Res*: 2015, DOI 10.1007/s11064-014-1509-6.
- Pouria Heydarpour, Hassan Amini, Shayan Khoshkish, **Hossein Seidkhani**, Mohammad Ali Sahraian and Masud Yunesian. Potential Impact of Air Pollution on Multiple Sclerosis in Tehran, Iran. *Neuroepidemiology*: 2014;43:233–238, DOI: 10.1159/000368553.
- Ali Afrasiabi, Gholam Hossein Riazi, Shayan Abbasi, Ali Dadrasa, Behafarid Ghalandaric, **Hossein Seidkhani**, Seyed Mohamad Sadegh Modaresid, Neda Masoudiana, Amir Amani, Shahin Ahmadian. Synaptosomal acetylcholinesterase activity variation pattern in the presence of electromagnetic fields. *International Journal of Biological Macromolecules*, 65 (2014) 8– 15. DOI: 10.1016/j.ijbiomac.2014.01.006.
- Mahdieh Ghasemi, **Hossein Seidkhani**, Maseud Rahgozar and Ali Masoudi-Nejad, Centrality Measures in Biological Networks, *Current Bioinformatics*, Volume 8, 5 Issues, 2013. DOI: 10.2174/15748936113086660013.
- Shamsaei N., Almasi I. **Seidkhani H.**, Study of association between body mass index and bone mineral density of boys Ilam, *J. Ilam university of medical sciences*, 2011, 19 (1): 46-54.
- **Seidkhani H.**, Jarco-Bera's normality test method and compare it with some other methods, *Neda*, 2007, 4 (1): 14-21.
- **Seidkhani H.**, Parham GH., Estimation of probability measure by using a collection of points, 2006, Birjand university.

**Conferences:**

- Sadghifard N., Pakzad I., **Seidkhani H.**, Statistical analysis of the grade point average of students and score teachers evaluation in the medical sciences Ilam university, 12<sup>th</sup> Iranian national conference education medical sciences, Mashhad, Iran (2011)
- **Seidkhani H.**, Aivazi A., Mirzaei Karzan A., Barazndh F., Study of Ilam medical sciences teachers' views about workshops held by EDC, Iranian development of medical sciences education, Sanandj, Iran (2011)
- Chinipardaz Rh., **Seidkhani H.**, Spectral envelope analysis of categorical time series, 6<sup>th</sup> Iranian probability and stochastic processes seminar, Babolsar, Iran (2008)
- **Seidkhani H.**, Chinipardaz Rh., Introduction to categorical time series, 8<sup>th</sup> Iranian statistics conference, Shiraz, Iran (2007)
- **Seidkhani H.**, Dahanzadh B., A statistical model for the explanation of the sediment basin

	<p>of Karkheh, 7<sup>th</sup> river engineering seminar, Ahvaz, Iran (2007)</p> <p>- Mohtashami B.G., <i>Seidkhani H.</i>, Introduction to Jarco-Bera's normality test method, 35<sup>th</sup> annual Iranian mathematics conference, Ahvaz, Iran (2006)</p> <p>- <i>Seidkhani H.</i>, Mohtashami B.G., Usage of Chernoff Chains, 6<sup>th</sup> International Statistics conference, Tehran. Iran (2003)</p>
<b>JOURNAL AND CONFERENCE REFEREE</b>	<p>35<sup>th</sup> International Conference on Mathematics (Ahvaz-Iran 2010)</p> <p>8<sup>th</sup> National Conference on Statistics (Shiraz-Iran 2010)</p>
<b>SCIENTIFIC SOCIETIES MEMBERSHIP</b>	<p><b>Iranian Association for Statistics, Student Member</b>, 2002-present</p> <p><b>Iranian Association for Bioinformatics, Member</b>, 2015-present</p>
<b>SELECTED PROJECTS</b>	<p><i>PhD. Thesis</i>: Structural-Functional Brain Mapping Based on Information Passing between Networks: From Connections to Cognition</p> <p><i>M.Sc. Thesis</i>: Study categorical time series and use spectral envelope for its analysis (2007)</p> <p><i>B.Sc. Project</i>: Normality test using Jarco-Bera statistics and compare it with some other methods (2004)</p>
<b>SELECTED PRESENTATIONS</b>	<p>Introduction to Jarco-Bera's normality test method, <b>35<sup>th</sup> annual Iranian mathematics conference</b>, 2006, Ahvaz, Iran</p>
<b>COMPUTER SKILLS</b>	<p><i>Programming</i>: proficient in <b>Matlab, R</b> and <b>C++</b></p> <p><i>CADs and Applications</i>: <b>Cytoscape, S-plus, SAS, SPSS, Minitab</b></p>
<b>GRADUATE COURSE</b>	<p><i>Stochastic Process</i></p> <p><i>Time Series</i></p> <p><i>Probabilistic Modeling</i></p> <p><i>Advanced Programming (Matlab, R and C++)</i></p> <p><i>Bioinformatics</i></p> <p><i>Machine Learning</i></p> <p><i>Advanced Bioinformatics Algorithms</i></p> <p><i>Biological sequence Analysis</i></p> <p><i>Biochemistry of Proteins and Nucleic Acid</i></p> <p><i>Functional Genomics</i></p> <p><i>Biochemistry of Signal Transduction and Regulation</i></p> <p><i>Biochemistry of Neural Systems</i></p> <p><i>Mechanisms of Degeneration of Neural Systems</i></p> <p><i>Biological Networks</i></p> <p><i>Proteomics (unofficial)</i></p> <p><i>Roles of Proteins in Health and Illness (unofficial)</i></p>
<b>LANGUAGES</b>	<p><i>English</i>: Fluent</p> <p><i>Persian (Farsi)</i>: Native Speaker</p> <p><i>Kurdish</i>: Mother Tongue</p> <p><i>Arabic</i>: Familiar</p>