

Curriculum Vitae

Pouya Manshour (Ph.D.)

Professional information:

- ✓ Present position: **Assistant professor of physics**
- ✓ Institution: **Persian Gulf University**
- ✓ Address: **Dept. of Physics, College of Sciences, Persian Gulf University, 75196, Bushehr, Iran.**
- ✓ Tell: **+987731223336**
- ✓ Email: **manshour (at) pgu.ac.ir**

Main research interests:

Statistical Mechanics and Complex Systems, Soft Condensed Matters, Stochastic Processes, Complex Networks, Econophysics

Education:

- ✓ **PhD** in Condensed matter and Complex systems physics, Shiraz University, Shiraz, Iran, 2008-2013.
 - **Thesis title:** “*Dynamical model of information spreading on complex networks*”, supervised by: Dr. Afshin Montakhab
- ✓ **M.Sc.** in Physics of Complex Systems, Sharif University of Technology, Tehran, Iran, 2005-2008.
 - **Thesis title:** “*Turbulence like behavior of seismic time series*”, supervised by: Prof. Dr. M. Reza Rahimitabar.
- ✓ **B.Sc.** in Physics, Shiraz University, Shiraz, Iran, 2001-2005.

Professional experiences:

- ✓ Shiraz University (2009-2010), Teaching Assistant
- ✓ Shiraz University (2010-2013), Lecturer
- ✓ Persian Gulf University (since 2013), Assistant Professor

Publications:

- ✓ P. Manshour, S. Saberi, M. Sahimi, J. Peinke, A. F. Pacheco, and M. R. RahimiTabar, “*Turbulence like behavior of seismic time series*”, **Phys. Rev. Lett.** 102, 014101 (2009).
- ✓ P. Manshour, F. Ghasemi, T. Matsumoto, J. Gomez, M. Sahimi, J. Peinke, A. F. Pacheco and M. R. RahimiTabar, “*Anomalous Fluctuations of Vertical Velocity of Earth and Their Possible Implications for Earthquakes*”, **Phys. Rev. E** 82, 036105 (2010).
- ✓ A. Montakhab and P. Manshour, “*Low Prevalence, Quasi-Stationarity and Power Law Behavior in a Model of Contagion Spreading*”, **EuroPhys. Lett.** 99, 58002 (2012).

- ✓ P. Manshour and A. Montakhab, “*Contagion Spreading on Complex Networks: Fitness-Based Local Dynamics*” in: S. G. Stavrinides, S. Banerjee, S. H. Caglar and M. Ozer (Eds.) **Chaos and Complex Systems** pp. 325-329 (Berlin-Heidelberg: Springer, 2013).
- ✓ P. Manshour and A. Montakhab, “*Contagion Spreading on Complex Networks with Local Deterministic Dynamics*”, **Commun. Nonlinear Sci. Numer. Simul.** 19, 2414 (2014).
- ✓ P. Manshour, M. R. Rahimitabar, and J. Peinke, “*Fully developed turbulence in the view of horizontal visibility graphs*”, **J. Stat. Mech.: Theor. Exp.**, 2015, 08301 (2015).
- ✓ P. Manshour, “*Complex Network Approach to Fractional Time Series*”, **Chaos** 25, 103105 (2015).
- ✓ P. Manshour, M. Anvari, N. Reinke, M. Sahimi, and M. R. Rahimi Tabar, *Interoccurrence Time Statistics in Fully-Developed Turbulence*, **Scientific Reports (Nature)**, 6, 27452 (2016).
- ✓ A. Mohajeri, P. Manshour, and M. Mousaei, “*A Novel Topological Descriptor Based on the Expanded Wiener Index: Applications to QSPR/QSAR Studies*”, **Iranian J. Math. Chem.** 8, 107 (2017).
- ✓ A. Aliakbari, P. Manshour, and M. J. Salehi, “*Records in Fractal Stochastic Processes*”, **Chaos** 27, 033116 (2017).
- ✓ P. Manshour and T. Nakisa, “*Detecting Nonlinearity in Stochastic Time Series via Visibility Graphs*”, in preparation.
- ✓ P. Manshour and M. R. Rahimi Tabar, “*Universal Extreme Value Statistics in Turbulent Phenomena*”, in preparation.
- ✓ R. Shojaei and P. Manshour, “*Generalized Local Triad Dynamics in Social Networks*”, in preparation.

Conferences:

Talks:

- ✓ P. Manshour, “*Complex systems & Earthquake Prediction*“, The 1st national summer school in interdisciplinary sciences: the realm of knowledge under the command of basic sciences, Shiraz University, Shiraz, Iran, Sept. 8-11th, 2007.
- ✓ P. Manshour, “*Earthquakes Prediction: From Dreams to Reality*“, The 2nd national summer school in interdisciplinary sciences, Shiraz University, Shiraz, Iran, Sept. 21-25th, 2010.
- ✓ P. Manshour and A. Montakhab, “*Contagion Spreading on Complex Networks: Fitness-based local dynamics*“, The 4th International Interdisciplinary Chaos Symposium on Chaos and Complex Systems (CCS), Antalya, Turkey, April 29th to May 2nd, 2012.

- ✓ A. Tarbiat, P. Manshour and M. Barati, “*The Investigation of the Effect of High Connectivity on the Function of the Brain by Using Spreading Models on Complex Networks*”, The 2016 Conference on Complex Systems, Amsterdam, The Netherlands, Sept. 19-22th, 2016 (Presented by A. Tarbiat).
- ✓ R. Shojaei, P. Manshour and A. Montakhab, “*Generalized Local Triad Dynamics in Social Networks*”, The 10th Conference on Statistical Physics, Soft Condensed Matter, and Complex Systems, University of Mohaghegh Ardabili, Ardabil, Iran, April 25-26, 2018 (Presented by R. Shojaei).

Posters:

- ✓ P. Manshour and M. J. Salehi, “*Correlation effects on the record statistics*”, The 7th Conference on Statistical Physics, Soft Condensed Matter, and Complex Systems, Zanjan University, Zanjan, Iran, Dec. 18-19th, 2014 (Presented by M. J. Salehi).
- ✓ P. Manshour and M. J. Salehi, “*Fractional Brownian Motions and Complex Networks*”, The 8th Conference on Statistical Physics, Soft Condensed Matter, and Complex Systems, Isfahan University of Technology, Isfahan, Iran, Dec. 24th, 2015 (Presented by M. J. Salehi).
- ✓ T. Nakisa and P. Manshour, “*Extracting Nonlinear Correlations in Multifractal Time Series Using Visibility Graph*”, 3rd Iranian Computational Physics Conference, Shahid Beheshti University, Tehran, Iran, Jan 31th, 2018 (Presented by T. Nakisa).

Some Teaching Courses:

- ✓ Fundamentals of Physics
- ✓ Modern Physics
- ✓ Thermodynamics and Statistical Mechanics
- ✓ Fundamental of Computer and programming
- ✓ Computational Physics
- ✓ Quantum Mechanics
- ✓ Solid State Physics
- ✓ Advanced Statistical Mechanics
- ✓ Complex systems
- ✓ Biophysics