
CONTACT INFORMATION	University of Rijeka, 51,000 Rijeka, Croatia, EU Economics Department Luxembourg School of Business, Luxembourg, EU Dep. Economics, ECUST, Shanghai, China Zagreb Sch. Economics & Management, Croatia, EU
	<i>Mobile:</i> +385 95 3636 786 <i>E-mail:</i> bp@phy.hr
CURRENT POSITION	Full Professor in Economics at Luxembourg School of Business (LSB), Luxembourg, EU (February 2016 – Present) Full Professor in Physics at University of Rijeka, Croatia, EU (February 2010 – Present) Full Professor in Physics at Faculty of Information Studies, Slovenia, EU (February 2016 – Present) Full Professor in Economics at Zagreb School of Economics and Management (ZSEM), Croatia, EU (February 2010 – Present) Chair ECUST Full Professor in Economics at East China University of Science and Technology (ECUST), China (since January 2018) Occupation or position held: Professor of Physics and Professor of Economics, Vice Dean for Research at ZSEM, Vice Dean for Research at LSB. Scientific, research and development activities in diverse topic areas focused around complex systems, statistical methods, economics, finance, neuroscience, game theory, and behavioral science. Actively participating in different national, bilateral and international scientific projects. Writing project proposals for international and national project initiatives.
RESEARCH INTERESTS	<ul style="list-style-type: none">• complex networks, agent based modeling and simulation• deep learning, big data and data science• socio-technical systems, smart cities• self-aware, self-adaptive and self-organizing systems• Econometrics, Financial Econometrics, Firm Growth, Education, Labor Economics, Time Series Analysis
RESEARCH EXCELLENCE	<ul style="list-style-type: none">• He published 83 (CC/SCI) papers in different fields of science, ranging from nuclear physics, high energy physics, physiology, statistical physics, economics, neuroscience, and finance.• His H-factor is currently 28.• His papers were cited 3371 times according to Web of Science.• Six papers published in PNAS, one in Physical Review Letters (cited 570 times), and one in Nature Physics
EDITORIAL BOARD, ORGANIZATION, AND REFEREE	<ul style="list-style-type: none">• Academic Editor in PLoS ONE• Referee in PNAS, PRL, PRE, Physica A, Eur. Phys. J B, Chaos, Scientific Reports, Energy Economics, Quantitative Finance, Habitat International, ...• Head of Global Labour Organization for Croatia• President of the Adriatic Economics Association• Member of the Organizing Board of the Umag economics conference Agenda 2030

EDUCATION	University of Zagreb, Faculty of Natural Sciences, Croatia
	PhD in High Energy Physics and Nuclear Physics Thesis: <i>Efficient Interactions in Nuclear and High Energy Physics</i> , scientific contributions published in top journals such as Nature Physics, Proc. Natl. Acad. Sci. USA, Physical Review Letters, Quantitative Finance, and conference proceedings, developed modular simulation framework for dynamic complex networks analysis on distributed computing environment
PROFESSIONAL TRAINING	<u>Visiting research scholar</u> Center for Polymer Studies, Department of Physics, Boston University, United States , long lasting collaboration with a NAS member H. Eugene Stanley (September 1999 - Present) IPK Institute of Gatersleben, Germany , collaboration with Ivo Grosse (2007 - 2010) National University of Singapore, Singapore , collaboration with Baowen Li (August 2013 - 2015) East China University of Science and Technology, China , collaboration with Wei-Xing Zhou (July 2014 - Present) Beijing Normal University, China , collaboration with Wen Xu Wang (August 2016 - Present)
	Worked on novel statistical methods for identifying power-law cross-correlations, analyzing financial data, modeling and analysis of complex networks vulnerabilities to failures and attacks, with application to socio-technical and socio-economic systems. Results published in two top-tier multidisciplinary journals (Nature Physics, PNAS, PRL, Physics of Life, Complexity, Sci. Rep., J. R. Soc. Interface) to mention a few.
CONFERENCES AND WORKSHOPS	Econophysics conference, Warsaw, 2004) Econophysics conference, Turin, 2006) Econophysics conference, Lisbon, 2007) Econophysics conference, Tokyo, 2009) Econophysics conference, invited talk, Shanghai, 2011) Annual European Economics conference, invited talk, Ljubljana, 2012) Economics Conference, invited talk, Zurich, 2012) Econophysics conference, invited talk, Shanghai, 2013) Econophysics conference, invited talk, Shanghai, 2017) Econophysics conference, Warsaw, 2017) Economics conference, invited talk, Umag, 2017)
RESEARCH PROJECTS	Croatian project Long-term correlations in complex systems Croatian grant (2007-2010) Long-term correlations in natural systems Croatian grant (2010-2014) Long-term correlations in natural systems Croatian grant (2010-2014) Understanding immigration and integration through interdisciplinary models of social dynamics Slovenian grant, 300,000 Eur. (2017-)

DATACROSS EU grant (2017-)

Multi-scale concrete model with parameter identification (ConcreteMuScID)" (IP 11-2013-9068) Croatian grant with I. Kozar

TEACHINGUniversity of Rijeka, Faculty of Civil Engineering, Croatia

As a **professor** prepared and held lectures for the **General Physics** (2002 - Present) course.

As a **professor** prepared and held lectures for the **Mathematical Analysis 2** (2002 - Present) course.

As a **professor** prepared and held lectures for the **Operational Research** (2014 - Present) course.

University of Zagreb, Faculty of Science, Department of Mathematics, Croatia

As a **professor** prepared and held lectures for the **Econometrics** (2002 - Present) course.

Zagreb School of Economics and Management, Croatia

As a **professor** prepared and held lectures for the **Statistics for Management** (2010) course.

AWARDS

2010 - 2017	Faculty Award for best paper
2011	In October 2011, a journalist from Boston Globe made an interview with Profs. Stanley and Podobnik about their work published in PNAS in 2011.
2012	News in Singapore on B. Podobnik and H. E. Stanley, "The Downside of Interdependent Networks," The Business Times [Singapore], 20 November 2012
2017	In September news on Princeton FB about work on immigration with Kovac, Jusup, and Stanley

INTERNATIONAL COLLABORATIONS

Boston U, Harvard U, Princeton U., Beijing Normal University, East China University of Science and Technology, Natl. University of Singapore, IPK Gatersleben Germany, University of Halle Germany, University of Ljubljana Slovenia, Tokyo University of Information Sciences, University at Lecce Italy, University of Maribor Slovenia

TECHNICAL SKILLS

Very good knowledge and work experience with:

- **Operating systems:** Windows, Unix/Linux, OS X
- **Programming Languages:** C#, C++/C
- **Mathematical and statistical computing:** Matlab, R
- **Other:** TeX, Microsoft Office

ORGANIZATIONAL SKILLS

Perennial teamwork experience

Project leadership experience on several research and development projects

SOCIAL SKILLS	Communicative, easily approachable Willing to learn and teach and share knowledge
PUBLICATIONS	Journal papers
	[1] Z.-Q. Jiang, G.-J. Wang, A. Canabarro, B. Podobnik, C. Xie, H. E. Stanley, and W.-X. Zhou, "Short-Term Prediction of Extreme Returns Based on Recurrence Interval Analysis," <i>Quantitative Finance</i> 18 , 353-370 (2018).
	[2] Z. Zheng, H. Yang, Y. Fu, D. Fu, B. Podobnik, and H. E. Stanley, "Factors Influencing Message Dissemination through Social Media," <i>Phys. Rev. E</i> 97 , 062306 (2018).
	[3] L. Zhao, W. Li, A. Fenu, B. Podobnik, Y. Wang, and H. E. Stanley, "The q-Dependent Detrended Cross-Correlation Analysis of the Stock Market," <i>J. Stat. Phys.</i> 023402 (2018).
	[4] S. Begui?, Z. Kostanj?ar, H. E. Stanley, and B. Podobnik, "Scaling Properties of Extreme Price Fluctuations in Bitcoin Markets," <i>Physica A</i> 510 , 400-406 (2018)
	[5] S. Begui?, Z. Kostanj?ar, D. Kova?, H. E. Stanley, and B. Podobnik, "Information Feedback in Temporal Networks as a Predictor of Market Crashes," <i>Complexity</i> 2018 , 2834680 (2018).
	[6] X.-L. Li, M. Jusup, Z. Wang, H.-J. Li, L. Shi, B. Podobnik, H. E. Stanley, S. Havlin, and S. Boccaletti, "Punishment Diminishes the Benefits of Network Reciprocity in Social Dilemma Experiments," <i>Proc. Natl. Acad. Sci. USA</i> 115 [1], 30-35 (2018).
	[7] B. Podobnik, M. Jusup, Z. Tiganj, Wen-Xu Wang, J. M. Buldu, and H. Eugene Stanley, Biological conservation law as an emerging functionality in dynamical neuronal networks, <i>Proc. Natl. Acad. Sci. USA (PNAS)</i> 2017 ; published ahead of print October 24, 2017,
	[8] A. Majdandzic, B. Podobnik, S. V. Buldyrev, D. Y. Kenett, S. Havlin, and H. E. Stanley, Spontaneous recovery in dynamical networks, <i>Nature Physics</i> 10 , 34 (2014)
	[9] Z-Q. Jiang, W.-J. Xie, M.-X. Li, B. Podobnik, W-X. Zhou, H. E. Stanley, Calling Patterns in Human Communication Dynamics, <i>Proc. Natl. Acad. Sci. USA (PNAS)</i> 110 (5) 1600-1605 (2013)
	[10] Z-Q. Jiang, W.-J. Xie, M.-X. Li, B. Podobnik, W-X. Zhou, H. E. Stanley, Calling Patterns in Human Communication Dynamics, <i>Proc. Natl. Acad. Sci. USA</i> 110 , 1600 (2013)
	[11] L. Feng, B. Li, B. Podobnik, T. Preis, and H.E. Stanley: Linking Agent-Based Models and Stochastic Models of Financial Markets, <i>Proc. Natl. Acad. Sci. USA</i> 109 , 8388-8393 (2012) (2012)
	[12] B. Podobnik, D. Horvatic, A. Petersen, B. Urosevic, H. E. Stanley: Bankruptcy risk model and empirical tests, <i>Proc. Natl. Acad. Sci. USA</i> 107 1 , 18325-18330 (2010)
	[13] B. Podobnik, D. Horvatic, A. Petersen, H. E. Stanley: Cross-Correlations between Volume Change and Price Change, <i>Proc. Natl. Acad. Sci. USA</i> 106 :22079-22084 (2009)
	[14] B. Podobnik, M. Jusup, Wang Zhen, et al. How Fear of Future Outcomes Affects Social Dynamics <i>J. Statistical Phys.</i> 167 Issue: 3-4, 1007-1019 (2017)

- [15] D. Wang, Zhang Xin, D. Horvatic, B. Podobnik, and HE Stanley. . A generalization of random matrix theory and its application to statistical physics. *Chaos* **27** Issue: 2 Article Number: 023104 (2017)
- [16] B. Podobnik. M. Jusup. D. Kovac, and HE Stanley. Predicting the Rise of EU Right-Wing Populism in Response to Unbalanced Immigration. *Complexity*, Article Number: 1580526 Published: 2017
- [17] Z.Q. Jiang, C. Askery, B. Podobnik et al. Early warning of large volatilities based on recurrence interval analysis in Chinese stock markets. *Quantitative Finance*. **16** Issue: 11 Pages: 1713-1724 (2016)
- [18] B. Podobnik, T. Lipic, I. Bojic, N. Antulov-Fantulin, "Cities' influence on spatial epidemics: Comment on "Pattern transitions in spatial epidemics: Mechanisms and emergent properties" by Gui-Quan Sun et al..", *Physics of life reviews*, **19**, 2016, pp. 90-92.
- [19] V. Gontis, S. Havlin, A. Kononovicius, B. Podobnik, and H. E. Stanley, "Stochastic Model of Financial Markets Reproducing Scaling and Memory in Volatility Return Intervals," *Physica A* **462**, 1091-1102 (2016)
- [20] Estimating Tipping Points in Feedback-Driven Financial Networks. Z. Kostanjcar, S. Begusic, HE Stanley, and B. Podobnik, *IEEE JOURNAL OF SELECTED TOPICS IN SIGNAL PROCESSING* **10** Issue: 6 Pages: 1040-1052 (2016)
- [21] P. Tang, Y. Zhang, B. E, Baaquie, and B. Podobnik. Classical convergence versus Zipf rank approach: Evidence from China's local-level data *Physica A-STATISTICAL MECHANICS AND ITS APPLICATIONS* **443**, 246-253 (2016)
- [22] D. Kovac, V. Vukovic, N. Kleut, B. Podobnik. To Invest or Not to Invest, That Is the Question: Analysis of Firm Behavior under Anticipated Shocks *PLOS ONE* **11** Issue: 8 Article Number: e0158782 (2016)
- [23] W-J Xie, M-X Li, Z-Q Jiang, Q-Z Tan , B. Podobnik, Wei-Xing Zhou, and H. E. Stanley "Skill complementarity enhances heterophily in collaboration networks" *Scientific Reports* 6, Article number: 18727 (2016).
- [24] M. Jusupa, S. Iwamia, B. Podobnikc, H. E. Stanleyc Dynamically rich, yet parameter-sparse models for spatial epidemiology: Comment on "Coupled disease-2013behavior dynamics on complex networks: A review" by Z. Wang et al. *Physics of Life Reviews*, **15**, 43–46 (2015).
- [25] B. Podobnik, V. Vukovic, and H. E. Stanley, Does the Wage Gap between Private and Public Sectors Encourage Political Corruption? *PLoS ONE* 10(10): e0141211. DOI:10.1371/journal.pone.0141211 (2015).
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- [28] X-Y Qian, Y-M Liu, Z-Q Jiang, B. Podobnik, Wei-Xing Zhou, H. E. Stanley, Detrended partial cross-correlation analysis of two time series influenced by common external forces, *Phys. Rev. E* **91**, 062816 (2015).

- [29] B. Podobnik, D. Horvatic, T. Lipic, M. Perc, J. M. Buldu, H. E. Stanley The Cost of Attack in Competing Networks, *J. Royal Society Interface* **12**, 20150770 (2015).
- [30] J-H Lee, M. Jusup, B. Podobnik, and Y Iwasa, Agent-Based Mapping of Credit Risk for Sustainable Microfinance *PLoS ONE* 10(5): e0126447. doi:10.1371/journal.pone.0126447 (2015).
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- [39] B. Podobnik, B. E. Baaque, S. Bishop, D. Njavro and B. Li, Growth Versus Government Management Improvement During Economic Downturn, *Scientific Reports* **3**, doi:10.1038/srep01612 (2013)
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- [44] I. Gvozdanovic, B. Podobnik, D. Wang, and H.E. Stanley: 1/f behavior in cross-correlations between absolute returns in a US market, *Physica A* **391** 2860-2866 (2012)
- [45] B. Podobnik, Z-Q Jiang, W-X Zhou, and H.E. Stanley. Statistical tests for power-law cross-correlated processes, *Phys. Rev. E* **84**, 066118 (2011)

- [46] J. Shao, P. Ch Ivanov, B. Urosevic, H.E. Stanley, B. Podobnik: Zipf rank approach and cross-country convergence of incomes, *EPL* **94**, 48001 (2011)
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- [48] D. Horvatic, H.E. Stanley, B. Podobnik: Detrended cross-Correlation analysis for non-stationary time series with periodic trends, *EPL* **94**, 18007 (2011)
- [49] B. Podobnik, D. Wang, D. Horvatic, I. Grosse, H. E. Stanley: Time-lag cross-correlations in collective phenomena, *EPL*, **90** (6) 68001 (2010)
- [50] J. Tenenbaum, D. Horvatic, S. Cosovic Bajic, B. Pehlivanovic, B. Podobnik, H. E. Stanley: Comparison between response dynamics in transition economies and developed economies, *Phys. Rev. E* **82** 046104 (2010)
- [51] A. M. Petersen, B. Podobnik, D. Horvatic, H. E. Stanley: Scale invariant properties of public debt growth, *EPL*, **90** 38006 (2010)
- [52] B. Podobnik, D. Horvatic, A. Petersen, M. Njavro, H. E. Stanley: Common scaling behavior in finance and macroeconomics, *Eur. Phys. J. B* **76** No. 4, 487-490 (2010)
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- [55] B. Podobnik, J. Shao, D. Njavro, P. Ch. Ivanov, and H. E. Stanley:"Influence of corruption on economic growth rate and foreign investments", *Eur. Phys. J. B* **63**, 547 (2008)
- [56] B. Podobnik, Vanco Balen, Timotej Jagric, and Marko Kolanovic:"Croatian and Slovenian Mutual funds and Bosnian investments funds", *Czech Journal of Economics and Finance*, **57** No 3-4, 159-177 (2007)
- [57] B. Podobnik, J. Shao, N. Dokholyan, V. Zlatic, H. E. Stanley, and I. Grosse: Similarity and dissimilarity in correlations of genomic DNA *Physica A* **373** (1) 497-502 (2007)
- [58] J. Shao, P. Ch. Ivanov, B. Podobnik, and H.E. Stanley:"Quantitative relations between corruption and economics factors", *Eur. Phys. J. B Complex Systems - Interdisciplinary Physics* **56** No2, 157-166 (2007)
- [59] B. Podobnik, Dongfeng Fu, H.E. Stanley, and P. Ch. Ivanov:"Power-law Autocorrelated Stochastic Processes with Long-range Cross-correlations", *Eur. Phys. J. B Complex Systems - Interdisciplinary Physics* **56**, 47-52 (2007)
- [60] V. Krstic, Z. Maglica, B. Podobnik, and N. Pavin:"Min-protein oscillations in E. Coli: three-dimensional off-lattice stochastic reaction-diffusion model", *J. Stat. Physics* **128** issue 1-2, 5-20 (2007)
- [61] T. Jagric, B. Podobnik, M. Kolanovic, and Vita Jagric:"Modeling some Properties of Stock Markets in Transition Economics", *Journal of Economics* **8**, 816-829 (2006)

- [62] B. Podobnik, D. Fu, T. Jagric, I. Grosse, and H. E. Stanley: "Fractionally integrated process for transition economics", *Physica A* **362** issue 2 465-470 (2006)
- [63] B. Podobnik, P. Ch. Ivanov, K. Biljakovic, D. Horvatic, H. E. Stanley, and I. Grosse: "Fractionally integrated process with power-law correlations in variables and magnitudes", *Phys. Rev. E* **72**, 026121 (2005)
- [64] T. Jagric, M. Kolanovic, and B. Podobnik: "Does the Efficient Market Hypothesis Hold? Evidence from Six Transition Economies", *Eastern European Economics* **43** issue 4, 85-110 (2005)
- [65] B. Podobnik, P. Ch. Ivanov, V. Jazbinsek, Z. Trontelj, H. E. Stanley, and I. Grosse: "Power-law correlated processes with asymmetric distributions", *Phys. Rev. E Rapid Communication* **71(2)**, 025104(R) (2005)
- [66] T. Jagric, S. Strasek, M. Kolanovic, and B. Podobnik: "The Performance of Slovenian Mutual Funds", *Slovene Studies* **26**, 1-2, 81 (2005)
- [67] B. Podobnik, I. Grosse, P.Ch. Ivanov, K. Matia, and H. E. Stanley: ARCH-GARCH approaches to modelling high-frequency financial data, *Physica A* **344**, 216-220 (2004)
- [68] P.Ch. Ivanov, A. Yuen, B. Podobnik, Y. Lee: Common scaling patterns in inter-trade times of U.S. stocks, *Phys. Rev. E* **69**, 056107 (2004)
- [69] D. Klabucar, K. Kumericki, D. Mekterovic, and B. Podobnik: On the instanton-induced portion of the nucleon strangeness II:the MIT model beyond the linearized approximation, *European Physics Journal C* **29**, 71-78 (2003)
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- [75] D. Horvat, B. Podobnik and D. Tadić: Chiral quark model in a Tamm-Danoff inspired approximation, *Phys. Rev. D* **58** 034003 (1998)
- [76] B. Podobnik, P. Ring and D. Vretenar: Relativistic mean-field description of collective motion in nuclei: the pion field, *Z. Phys. A* **354** 375 (1996)
- [77] P. Ring, D. Vretenar and B. Podobnik: Double giant resonances in time-dependent relativistic mean-field theory, *Nucl. Phys. A* **598** 107 (1996)

Journal papers: accepted or submitted

- [1] B. Podobnik, M. Jusup, Z. Tiganj, WX Wang, J. M. Buldu, HE Stanley, Biological conservation law as an emerging functionality in dynamical neuronal networks, accepted in PNAS

- [2] ZQ Jiang, GJ Wang, A. Canabarro, B. Podobnik, C. Xie, HE Stanley and WX Zhou, Short term prediction of extreme returns based on the recurrence interval analysis, accepted in Quantitative Finance
- [3] D. Kovac, N. Scrbec, and B. Podobnik, Does it Payoff to Research Economics?: A Tale of Citation, Knowledge and Economic Growth in Transition Countries, submitted to Physica A
- [4] Z-L Hu, Z. Shen, B. Podobnik, Wen-Xu Wang, Locating multiple diffusion sources in time varying networks from sparse observations, submitted to Sci Rep.
- [5] Y. Hu, R. Zhang, L. Feng, Ch. Monterola, J. Sun, X. Ma, B. Podobnik, and H Eugene Stanley, Cascade of Failures in Interdependent Multilayer Community Networks, submitted to Complexity
- [6] Leilei Shi. A. Fenu, B. Podobnik, Coherent Preferences and Reference Point Updating in Bargain, Competition, and Interactive Trading in Stock Market. submitted to Economic Modelling