**Ilya Zaliapin, Professor of Statistics**
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CURRICULUM VITAE

## Education

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|---|---|
| 1999 | Ph.D. (Mathematics and Physics)<br>MITPAN, Russian Academy of Sciences, Moscow<br>Advisors: Prof. V.F. Pisarenko, Prof. V.I. Piterbarg. |
| 1995 | M.S. (Probability and Statistics)<br>Lomonosov Moscow State University, Dept. of Probability Theory<br>Advisor: Prof. V.I. Piterbarg. |

## Fields of interest

Applied probability and statistics with applications to statistical seismology, hydrology, climate, biology, and finance.

## Professional experience

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| 2016 – present | Professor, Dept. of Mathematics and Statistics, UNR |
| 2021 – present | Director, Graduate Program in Statistics and Data Science |
| 2016 – 2018 | Director, Graduate Program in Statistics and Data Science |
| 2015 – 2016 | Vice-Chair, Dept. of Mathematics and Statistics, UNR |
| 2009 – 2016 | Associate Professor, Dept. of Mathematics and Statistics, UNR |
| 2006 – 2009 | Assistant Professor, Dept. of Mathematics and Statistics, UNR |
| 2001 – 2006 | Assistant Researcher, Institute of Geophysics and Planetary Physics<br>University of California Los Angeles |
| 1999 – 2001 | Postdoctoral Fellow, Institute of Geophysics and Planetary Physics<br>University of California Los Angeles |

## Broader Service

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| 2011 – present | Commission on Mathematical Geophysics, International Union of Geodesy and Geophysics (IUGG), Secretary since 2013 |
| 2016 – present | Associate Editor, *Journal of Geophysical Research-Solid Earth* (AGU) |
| 2009 – present | Editor, *Nonlinear Processes in Geophysics* (EGU/AGU) |
| 2011 – 2016 | Committee on Prob. and Stat. in Physical Sci.,<br>Bernoulli Society for Mathematical Statistics and Probability, Chair 2013 – 2015 |
| 2009 – 2018 | Associate Editor, *Journal of Environmental Statistics* (UCLA) |
| 2011 – 2016 | Planning Committee, Southern California Earthquake Center |
| 2009 – 2012 | Secretary, Natural Hazards Focus Group, Am. Geophys. Union (AGU) |

## Honors

2020 Fulbright U.S. Scholar
2015 UNR Hyung K. Shin Outstanding Research Award
2010 UNR Westfall Scholar Mentor

**Conference/workshop organizing:** 4 IUGG CMG conferences, 5 workshops, 19 special sessions/symposia at international meetings

**Review services:** Springer, Cambridge University Press, Chapman & Hall, U.S. National Science Foundation (NSF), Canada Foundation for Innovation (CFI); Czech Science Foundation (CSF); Fondo Nacional de Desarrollo Científico y Tecnológico (FONDECYT), Chile; 30 academic journals including Science, Proceedings of the National Academy of Sciences (PNAS); Physical Review Letters (PRL), Annals of Applied Statistics (AOAS)

**Research grants:** Over $1,400K of external support in 30 projects funded by NSF, USGS, SCEC, DOE, and DOS

**Publications:** 76 papers in peer-refereed journals, 1 book (co-editor), 158 published abstracts (h-index 33)

**Advising:** 1 postdoc, 12 graduate students, 6 undergraduate students

**Selected Publications:**


1. Kovchegov, Y. and I. Zaliapin (2020) Random Self-Similar Trees: A Mathematical Theory of Horton Laws. *Probability Surveys*, 17, 1–213. https://doi.org/10.1214/19-PS331
2. Zaliapin, I. and Y. Ben-Zion (2020) Earthquake declustering using the nearest-neighbor approach in space-time-magnitude domain. *J. Geophys. Res.: Solid Earth*, e53991. https://doi.org/10.1029/2018JB017120
3. Tejedor, A., A. Longjas, I. Zaliapin, and E. Foufoula-Georgiou (2015) Delta channel networks: 1. A graph-theoretic approach for studying connectivity and steady-state transport on deltaic surfaces. *Water Resources Research*, 51, 3998–4018. https://doi.org/10.1002/2014WR016577
4. Zaliapin, I. and Y. Ben-Zion (2013a) Earthquake clusters in southern California, I: Identification and stability. *J. Geophys. Res.: Solid Earth*, 118, 2847–2864. https://doi.org/10.1002/jgrb.50179
5. Zaliapin, I., A. Gabrielov, V. Keilis-Borok, and H. Wong (2008) Clustering analysis of seismicity and aftershock identification. *Phys. Rev. Lett*., 101, 018501. https://doi.org/10.1103/PhysRevLett.101.018501
6. Zaliapin, I., Y. Kagan, and F. Schoenberg (2005) Approximating the distribution of Pareto sums, *Pure. Appl. Geophys.,* 162, 1187-1228. https://doi.org/10.1007/s00024-004-2666-3