



Volodymyr Shatalov

Data Science and Financial Mathematics Expert



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Freelancer, On the Web



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<https://vshatalov.github.io/>

Who I am

I am a former professor of theoretical physics (see my papers [here](#)) now working as a Python developer in the Data Science domain (see my Portfolio, CV, and Feedback [here](#)). I am skilled in Statistics and Financial Mathematics.

What I want

Remote or part-time job in the Data Science domain, possibly as a counsellor on Data Science or Financial Mathematics. My rate is negotiable according to market value.

What I can

During the last decade I worked on Data Mining, Statistics, Machine Learning, Mathematical Modelling, and other Data Science projects (see [my Portfolio](#)).

Samples of previous work

- [Lifetime Wellbeing Calculator](#)
- [Satellite View Period Ratio for Circular and Elliptical Orbits](#)
- [UVGI Scientific Calculator](#)
- [Market Prices Forecast \(Daily Stock Trading\)](#)
- [Sales Forecast](#)
- [Stock Market Analyzer](#)
- [Shiny Asset Assess](#)
- [Ask Twitter Keywords \(Tweets Sentiment Analysis\)](#)
- [AI Telegram Chatbot pre-trained on custom documents](#)

My Skills

- Python
- R programming
- R-Shiny
- MATLAB
- UX/UI
- HTML, CSS, JS
- Machine Learning
- Time Series Analysis
- Trading Algorithm
- Predictive Model Fitting
- Natural Language Processing
- Neural Networks

My Education

- Dec 1990 – May 1991* **National Academy of Sciences of Ukraine**
Dr.Sci., Dr.Sci. thesis "Effects of the band structure of solids in the inelastic scattering of slow electrons", Kiev, Ukraine
- Nov 1976 – Dec 1976* **Donetsk University**
PhD, PhD thesis "Quasi-stationary excitons in covalent semiconductors", Donetsk, Ukraine
- Nov 1972 – Nov 1975* **National Academy of Sciences of Ukraine**
Dr. Ph., Theoretical Physics, Donetsk, Ukraine
- Sep 1965 – Jul 1970* **Southern Federal University**
MSc, Theoretical Physics, Rostov-na-Donu, Russia

My Experience

- Dec 2016 – present* **Counselor on Data Science, Mathematics, Physics**
Artificial Intelligence, Statistics, Mathematics, Computer Sciences
- Sep 2014 – Aug 2018* **Professor**
National Technical University of Ukraine Kiev Polytechnic Institute, Department of Automatic Information Processing and Control Systems, Slavutych branch, Ukraine. Data Science, Decision Theory, Theory of Algorithms, Web-design, System Analysis.
- Sep 1999 – Aug 2014* **Professor**
Donetsk University, Department of Biophysics, Vinnitsa, Ukraine. Theory of the biological impact of low electromagnetic fields. Molecular structure and dynamics of air/water interface.
- Nov 1975 – Aug 1999* **Scientific Research Worker**
National Academy of Sciences of Ukraine, Department of Dynamic Properties of Complex Systems, Donetsk, Ukraine. Electronic structure of semiconductors, photon emission, etc.

Publication Highlights

- Ilia Reznik, Vladimir Shatalov: *Hidden revolution of human priorities: An analysis of biographical data from Wikipedia*. Journal of Informetrics 01/2016; 10(1):124-131., DOI:10.1016/j.joi.2015.12.002
- V. M. Shatalov: *[Mechanism of the biological impact of weak electromagnetic fields and in vitro effects of degassing of blood]*. Biophysics 01/2014; 57(6):808-813., DOI:10.1134/S0006350912060152
- Vladimir M. Shatalov, A. É. Filippov, Inna V. Noga: *Bubbles induced fluctuations of some properties of aqueous solutions*. Biophysics 08/2013; 57(4)., DOI:10.1134/S0006350912040161
- Valerii Sukhmanov, Vladimir Shatalov, Juliya Petrova, Adriana Birca, Liviu Gaceu: *The influence of high pressure on bio-system reaction kinetics and the Preservation of vitamin C*. LWT- Food Science and Technology 01/2013; 58(2)., DOI:10.1016/j.lwt.2013.01.012
- Olga V. Gornostaeva, Vladimir M. Shatalov, Yurii G. Pashkevich: *FeO double-well potential as a result of spin density redistribution*. JETP Letters 04/2009; 89(4):167-169., DOI:10.1134/S0021364009040018
- V. V. Rumyantsev, V. M. Shatalov, G. Ya. Misuna: *Gas separation of hydrogen isotopes by means of multicell metal membrane* 1*. Desalination 08/2002; 148(1-3):293-296., DOI:10.1016/S0011-9164(02)00719-1
- S V Beshpalova, A M Mishchenko, V M Shatalov: *[Transformation of chemical energy in biomolecular systems with hydrogen bonds]*. Biofizika 03/2002; 47(2):236-44.
- V.V. Korablev, Yu.A. Kudinov, O.F. Panchenko, L.K. Panchenko, Vladimir Shatalov: *Band-structure and interelectron interaction in low-energy spectra of secondary-electron emission of surfaces (100),(110) and (111) of tungsten*. Fizika Tverdogo Tela 01/1994; 36(8):2373-2380.
- O. F. Panchenko, L. K. Panchenko, V. M. Shatalov, V. I. Silant'ev, N. A. Shevchenko: *Low-energy total-current electronic spectroscopy of molybdenum*. Physics of the Solid State 01/1994; 36:975-976.