

Peter Laurinec

DATA SCIENTIST · MACHINE LEARNING ENGINEER/RESEARCHER

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Highlights

- **Passionate Data Analyst/Scientist/ ML Expert with experience in energy business and research**
- **Master of clustering.** Advanced skills in time series/ regression analysis, **forecasting** and optimization
- Researcher: **published over 10 internationally recognized research papers**
- Good communication and presentation skills: **presented my work at international conferences** in San Francisco, Barcelona, Skopje, Budapest etc.
- Active in open source community - github.com/PetoLau
- Background in statistics: **strong mathematical thinking**

Experience

PowerEX j.s.a.

Bratislava, Slovakia

CDO - CHIEF DATA OFFICER

Sep. 2018 - PRESENT

- **Developing** and deploying **forecasting ML/AI models** into production through APIs and Web applications (Plumber, shiny)
- **Developing optimization algorithms** for various tasks in energy sector
- **Developing** and deploying **statistical** reporting tools and **interactive dashboards** for better understanding of grids/ portfolio

FIIT STU, Bratislava

Bratislava, Slovakia

TEACHER ASSISTANT

Sep. 2014 - Aug. 2018

- **Teaching** procedural programming (**C**), artificial intelligence (**AI**) and knowledge discovery from databases (**KDD**)
- **Supervised** 6 bachelor's theses, 4 master's thesis and helped to supervise 2 master's theses

Atos IT solutions, Bratislava

Bratislava, Slovakia

CONSULTANT

May 2015 - Sep. 2015

- Worked on project that dealt with electrical energy consumption and smart grid

Education

Faculty of Informatics and Information Technologies, Slovak University of Technology

Bratislava, Slovakia

PHD. IN INTELLIGENT INFORMATION SYSTEMS

Sep. 2014 - Jul. 2018

- Wrote 13 research articles with international recognition. Some of them are [available online](#).
- Active presentations at the international conferences in San Francisco, Barcelona, Skopje, Prague and Poprad
- Got the STU Grant of Young Researchers two times in 2016 and 2017
- PhD thesis on [Improving forecasting accuracy through the influence of time series representations and clustering](#)

Faculty of Mathematics, Physics and Informatics, Comenius University

Bratislava, Slovakia

BC. AND MGR. IN INSURANCE MATHEMATICS/ PROBABILITY AND MATHEMATICAL STATISTICS

Sep. 2009 - Jun. 2014

- Bachelor thesis on Latin squares and their usage in design of experiments
- Master thesis on model-based cluster analysis solved by genetic algorithm

R's community

- **Blogging:** about **time series data mining in R**. Blog posts mainly about **forecasting** and time series representations. Contributing to aggregators as [R-bloggers](#) and [R Weekly](#).
- **Package:** I created R package for time series representations computing called **TSrepr**. It allows more accurate and effective time series data mining. It is written in R and C++ (50/50).
- **Shiny application:** I created [shinydashboard application for visualization of COVID-19 spread](#) in the World with multiple analytic tools as comparing and clustering countries' trajectories/statistics of cases/deaths, simple extrapolations etc.
- **Active participation** at [eRum 2018](#) and [SatRday Belgrade 2018](#) conferences. Talks about **Time Series Data Mining**

Skills

Programming Languages	R/Rstudio (Expert), C/C++ (Intermediate), \LaTeX (Advanced)
Sports	Running, ultra-trail, yoga, fishing
Driving license	Type B