



# VACLAV SLIMACEK

- Data Scientist, Mathematical modeler, Statistician
- PhD in Mathematics (specialization in Statistics) from the Norwegian University of Sciences and Technology, Trondheim
- Keywords: Mathematics, Statistics, Data Science, Analysis, Problem Solving, Optimization, Simulations, Modeling, Visualizations, Machine Learning, Data Mining, Reliability, R, SQL, C++
- "Without data you are just another person with opinion"

## CONTACT

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## WORKING EXPERIENCE

### Data scientist O2 Czech Republic

2016/01 – Present

A data scientist and mathematical modeler primarily responsible for analysis, modeling and visualizations of mobility and location data, also involved in predictive modeling, machine learning and new products development.

### Research fellow Norwegian University of Sciences and Technology

2011/09 – 2015/10

Research fellow involved in the project 'Reliability analysis of offshore wind energy systems'. The major task of the project was to develop appropriate probabilistic and statistical methods for analysis of failures, degradation, reliability and maintenance strategies with the aim of optimal operation of wind farms. This study included both statistical modeling and analysis of field data. A new method for nonparametric estimation of unobserved effects was developed, presented on conferences all over the world and in international journals. Teaching in statistical courses was part of the duties.

### Research assistant Institute of Information Theory and Automation of the ASCR

2010/10 – 2011/06

Mathematical modeling and optimization of a production line checkpoint with use of Markov chains and semi-Markov processes, semi-Markov decision processes and queuing theory.

### Research assistant Norwegian University of Sciences and Technology

2009/06 – 2009/09

Development and programming of medical ultrasound simulator.

## EDUCATION

### PhD, Mathematics (Statistics) Norwegian University of Sciences and Technology, Trondheim

2011 – 2015

Faculty of Information Technology, Mathematics and Electrical Engineering, Department of Mathematical Sciences.  
Doctor of Philosophy, dissertation 'Heterogeneous Poisson Processes with Application to Wind Turbine Reliability'.

### Exchange student Norwegian University of Sciences and Technology, Trondheim

2008 – 2009

FM/EHP Norska grant.

### Ing, Mathematical Engineering Czech Technical University, Prague

2005 – 2011

Faculty of Nuclear Sciences and Physical Engineering, Department of Mathematics.  
Master degree (2008-2011), graduated with honors, thesis 'Mathematical model of a production line checkpoint'.  
Bachelor degree (2005-2008), graduated with honors, thesis 'Dynamic decision making via approximate dynamic programming'.

## SKILLS & INTERESTS

### Languages

English (independent user), German (elementary user), Norwegian (basic user), Czech (native speaker)

### Skills

R, SQL, C++, Microsoft Visual Studio, Matlab, Maple, Minitab, Latex, HTML, MS Office, Adobe Lightroom, Adobe Photoshop, Adobe InDesign, driving license class B

### Interests

Photography and computer graphics, hiking, mountaineering and outdoor life, ski touring and cross country skiing, sea kayaking, horse riding, fitness, swimming, west coast swing, kizomba