

Stanislav Borysov

- PERSONAL DATA E-mail: stanislav.borysov@gmail.com
Citizenship: Ukraine
Residence: Denmark
- EDUCATION **Ph.D. in theoretical physics** (2011)
Institute of Applied Physics, National Academy of Science of Ukraine (Sumy, Ukraine)
- Thesis: "Statistical Analysis of Behavior of Self-Organized Complex Systems"
- M.Sc., B.Sc. in applied mathematics** (2004 – 2009)
Sumy State University (SSU) (Sumy, Ukraine)
- Diploma with honors
- WORK **Assistant professor** (Dec 2017 – present)
EXPERIENCE *Technical University of Denmark (DTU) (Kgs. Lyngby, Denmark)*
- Research fields: Data-driven approaches, statistical modeling, machine learning and deep learning for intelligent transportation systems and innovative decision support systems; Generative modeling
- Postdoctoral fellow** (Feb 2016 – Nov 2017)
Stockholm University (SU) / Nordita (Stockholm, Sweden)
- Research fields: Applications of data mining, machine learning and statistical modeling tools to physical, social and biological complex systems
- Project leader for the Organic Materials Database (OMDB) (omdb.mathub.io)
- Postdoctoral associate** (Feb 2015 – Dec 2015)
Massachusetts Institute of Technology (MIT) Research Center "SMART" (Singapore)
- Research fields: Statistical learning and context/data mining for intelligent transportation systems; Natural language processing
- Faculty research guest** (Feb 2014 – Dec 2017, intermittent visits)
Los Alamos National Laboratory (Los Alamos, NM, USA)
- Research fields: Application of machine learning tools to materials science; Materials databases
- Postdoctoral researcher** (Oct 2012 – Jan 2015)
Royal Institute of Technology (KTH) / Nordita (Stockholm, Sweden)
- Research fields: Statistical modeling of nonlinear and complex systems
- Research engineer** (Feb 2012 – Oct 2012)
Samsung R&D Institute Ukraine (Kyiv, Ukraine)
- Responsibilities: Development of advanced 3D rendering techniques on mobile platforms; Project and team management assistance

Web developer, UX/UI designer (Aug 2010 – Jan 2012, remote, part-time)

ProAccom GmbH (Karlsruhe, Germany)

- Responsibilities: Front-end design and development of an energy market simulator (energynext.de); Development and support of various web projects

Web developer (Jun 2009 – July 2010, remote, part-time)

ArtyCreate Web Studio (Sumy, Ukraine)

- Responsibilities: Development and support of various web projects; Project management

Junior research assistant (Jan 2009 – Dec 2011)

Sumy State University (Sumy, Ukraine)

- Research project: "Statistical theory of hierarchical structures of defects in the crystal structure"

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| PUBLICATIONS | 22 peer-reviewed publications (a list of publications is available upon request) |
| FUNDING AND AWARDS | H.C. Ørsted / Marie Skłodowska Curie Actions (COFUND) senior fellow (2017) Computational resources allocation for 1 and 2.4 M core-hours from the Swedish National Infrastructure for Computing (SNIC) (2016; 2017) Reviewer for "PLoS ONE", "Engineering Applications of Artificial Intelligence", "Nature npj Computational Materials" |
| TEACHING AND SUPERVISING EXPERIENCE | "Advanced Machine Learning for Business Analytics"; DTU; course design and development (in preparation) "Data Science and GIS for Mobility"; DTU; lecturer, co-design (2018) "Strategic Analysis and Systems Design"; DTU; project work supervisor (2018) "Multivariate data analysis"; MIT; co-design (2015) "Numerical methods for the simulation of nanosystems", SSU; lecturer (2010) 3 MSc students co-supervision (2017 – present) |
| TECHNICAL SKILLS | C/C++ (+ STL), Python (+ SciPy, scikit-learn, Keras, TensorFlow, PyTorch) SQL, big data basics (Hadoop stack) JavaScript (+ jQuery), PHP, HTML, CSS Project management, research supervision, software engineering |
| LANGUAGES | English: Fluent written and spoken, IELTS certificate (2011); Swedish: Elementary; Ukrainian, Russian: Native speaker |
| OTHER INTERESTS | Graphic and web design, art, music, reading, traveling, cycling, snowboarding |