Dr. Vladimir Kovalenko

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Work Experience

Dec 2020 – Current — Head of Research Lab at JetBrains N.V., Amsterdam, The Netherlands
Intelligent Collaboration Tools Lab
Leading an R&D lab of 10 people working on data-driven enhancements for collaboration tools in software engineering: recommender systems, analytics, socio-technical risk analysis, semantic search...

Oct 2019 – Dec 2020 — Senior Researcher at JetBrains N.V., Amsterdam, The Netherlands
Machine Learning Methods in Software Engineering lab
Started and led several key projects, advised on many others, mentored junior colleagues.
Notable projects: `astminer` (envisioned and built the first version), language-agnostic code authorship attribution, visualization of refactorings in IDE diff.
I still retain a minimal affiliation with the lab and help where I can from time to time.

Oct 2016 – Mar 2021 — PhD Candidate at Delft University of Technology, Delft, The Netherlands
Software Engineering Research Group
Supervisors: Prof. Dr. Alberto Bacchelli and Prof. Dr. Arie van Deursen
Thesis: "Data-Driven Software Engineering"

Jun 2015 – Oct 2016 — Software Developer at JetBrains, St. Petersburg, Russia
Upsource team
Designed, implemented (full stack), and maintained most of the project analytics features.
Improved accuracy and performance of the code reviewer recommendation system.
Designed and implemented a warning system for risky code ownership patterns.

Jul 2014 – Jun 2015 — Research Intern at JetBrains, St. Petersburg
Did research on applicability of software defect prediction.

Jan 2013 – Feb 2014 — Intern at Yandex, St. Petersburg
Implemented Selenium scenarios for regression testing of web services.

2009 – 2014 — Private tutor (self-employed)
Taught mathematics, physics, and programming privately to high school students.

Education

March 2021 — Ph.D. in Software Engineering,
Delft University of Technology, Delft, The Netherlands
Thesis: "Data-Driven Software Engineering"

June 2015 — Master of Science in Applied Mathematics and Physics,
Nanotechnology Research and Education Centre of the Russian Academy of Sciences (the Academic University), St. Petersburg, Russia
Specialization: Software Engineering
Thesis: "Development of a software defect prediction tool" (in Russian)

June 2013 — Bachelor of Science in Physics, St. Petersburg Polytechnic University
Specialization: Astrophysics