NataliiaStulova

contact

summary

nata.stulova@pm.me

I am a computer scientist focusing on software documentation tools and techniques. I work with: formal specifications • code comments • requirement documents

links

experience

web:// s0nata.github.io LinkedIn:// nata-stulova

PhD in Software, Systems

and Computing cum laude

Technical University of

2020-now **Senior Researcher** [University of Bern]

I currently lead several research projects on software documentation quality analysis and developing tools for improving it automatically. I also collaborate in a project on tool support for requirement engineering tasks in software development.

education

2014-2018

2019-2020 **Scientist** [Swiss Federal Institute of Technology in Lausanne (EPFL)]

Switzerland I have worked on formal languages-based techniques for source code automatic documentation and summarization, exploring the potential of approaches based on natural language processing (NLP) to software documentation analysis.

2014-2018 **Research Assistant** [IMDEA Software Institute]

I have worked on program specification languages and tools for specification-based software verification: how to write formal specifications of program behavior properties, how to check them at run time, and how to do this efficiently.

MSc in Artificial Intelligence 2012-2013

Madrid (UPM)

2012-2013 **Research Intern** [Technical University of Madrid (UPM)]

Technical University of Madrid (UPM)

I have designed and developed the initial graphical user interface (GUI) for a multiagent airspace simulation system, prepared demos and documentaiton.

BSc in Systems Analysis

research

2008-2012 National Technical University of Ukraine "Kyiv Polytechnic Institute" (NTUU "KPI")

> comments and requirements

LowCode'21 Interactive Behavior-driven Development: a Low-code Perspective

SCAM'21 Do Comments follow Commenting Conventions? A Case Study in Java and Python

JSS'21 RepliComment: Identifying Clones in Code Comments

SCAM'20 Towards Detecting Inconsistent Comments in Java Source Code Automatically

developement

> formal specifications

Java, C++ Prolog bash, git GitLab, Phabricator Trello MTFX

PPDP'18 Static Performance Guarantees for Programs with Run-time Checks PADL'18 Exploiting Term Hiding to Reduce Run-time Checking Overhead

Some Trade-offs in Reducing the Overhead of Assertion Run-time Checks SCP'17

via Static Analysis

ICLP'15 Practical Run-time Checking via Unobtrusive Property Caching PPDP'14 Assertion-based Debugging of Higher-Order (C)LP Programs

other qualifications languages

native
Ukrainian
Russian
proficient
Fnalish

intermediate

French

Hebrew

Wordpress

2020-2021 Lecturer online and in-person teaching • lecture video recording • course design

Teaching the Java Crash Course and Algorithms and Data Structures parts of the Software Skills Lab, a 5 ECTS course of the Joint Master in Computer Science pro-

gram of the BeNeFri universities.

2020-now Spanish

Development Volunteer | Webmaster

requirements gathering • no-code web development

Consulting remotely a Dnipro-based cultural space KsiProstir on website develop-

ment and maintenance.

German 2017 **Workshop Chair | Organizer | Webmaster** beginner

web presence • talk scheduling • submission review Co-organized the 15th International Colloquium on Implementation of Constraint and

LOgic Programming Systems CICLOPS'17.