Tatyana Abramova

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EDUCATION

4th year Bachelor student, 2016 — Present
Applied Mathematics and Physics,
Moscow Institute of Physics and Technology (State University)

CAREER & PROJECTS

Junior Researcher January 2019 - Present
https://research.jetbrains.org/groups/npm
Nuclear Physics Methods Laboratory, MIPT, Moscow, Russia

- Implementation of Turchin's regularization algorithm in Julia
  https://github.com/mipt-npm/TurchinReg.jl
- Testing Advanced Hamiltonian Monte-Carlo samplers for BAT.jl
  https://github.com/bat/BAT.jl

Junior Python Developer September 2018 - December 2018
WNM.digital, Moscow, Russia

- "Venom" quest (backend)
  Creating bot for VK using the concept of DFA
- Telegram bot for product management
  Bot for project status tracking

COMPUTER SKILLS

Courses: Algorithms and Data Structures, Machine Learning 1, Deep Learning, Data Analysis in High Energy Physics
Programming languages: Python, Julia, MySQL; familiar with C++, Kotlin
Technologies: Git, Docker, Linux; Django, AsyncIO, PyTorch, Sklearn, Pandas, Numpy

MATH SKILLS

Calculus 1,2,3; Linear Algebra; Probability Theory; Mathematical statistics; Differential Equations; Group Theory; Complex Analysis; Computational Mathematics

ACHIEVEMENTS

Publications: "Prototype of a segmented scintillator detector for particle flux measurements on spacecraft", https://arxiv.org/abs/2005.02620
Olympiads: "Высшая лига 2020", Applied Mathematics and Information Science, 3rd place diploma
Internships: "Monte-Carlo sampling methods", Max Planck Institute for Physics in Munich

LANGUAGES

Russian (native)
English (C1)
German (A1)