Yehor Korotenko

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Profile

Software Engineer with 6 years of experience. Currently focused on applied mathematics research in numerical analysis.

Education

École Polytechnique de Paris — Palaiseau, France
Engineering Degree, Equivalent to Masters Degree — *Aug 2026 — July 2030*

Université Paris-Saclay — Orsay, France
Bachelor's of Science, Computer Science and Mathematics (Third year) — *Aug 2023 — May 2026*

- Cumulative GPA: 16.7/20 | top 2 student | FMJH Scolarship
- Relevant Coursework:
  - Probability, Optimisation, Functional Analysis, Group Theory, Linear Algebra, Numerical Analysis, Differential Equations
  - Compilers, Formal Methods, Machine Learning, Natural Language Processing, Deep Learning
- Created and distributed trilingual (French/Ukrainian/English) lecture notes with visual explanations for Linear Algebra 2 and Topology, used by the students in my cohort (notes)

Work Experience

Research Engineering Intern — June 2026 — July 2026
Laboratoire Interdisciplinaire des Sciences du Numérique — *Gif-sur-Yvette, France*

- Evaluating NLP tools
- Creating and contributing to educational tools

Personal Tutor — April 2026 — Pres.
Self Employed — *Remote from France*

- Provide personalized mathematics tutoring to first-year Bachelor students and high school students;
- Focus on strengthening foundational understanding, problem-solving skills, and exam preparation.

Independent Software Engineer — Sept 2025 (contracted: Nov 2025) — pres.
CentraleSupélec — *Gif-sur-Yvette, France*

- Leveraging adaptive machine translation to assist collaborative authoring and maintenance of large multilingual computational scientific narratives (continued to work on the project from LISN).

Research Intern — May 2025 — July 2025
Laboratoire Interdisciplinaire des Sciences du Numérique — *Gif-sur-Yvette, France*

- Leveraging adaptive machine translation to assist collaborative authoring and maintenance of large multilingual computational scientific narratives.
- Results presented as an extended abstract and a poster at JDSE 2025

Conference Contributions

Korotenko, Y. (2025). Leveraging Large Language Models for Maintaining Scientific Multilingual Documents. Poster presentation (extended abstract). Junior Conference on Data Science and Engineering (JDSE) - Gif-sur-Yvette, France.

- Available on OpenReview
- Poster: https://dobbikov.github.io/sci-trans-git/jdse-poster-yehor-korotenko.pdf

Projects

lesia (github.com/DobbiKov/lesia) — May 2025 — Present

- A research based toolchain to maintain multilingual documents with style and syntax preservance.

LogGit (github.com/DobbiKov/loggit) — Mar 2025 — Apr 2026

- A lightweight, easy-to-use logging library for Rust.

Music analysis and sorting algorithm github.com/DobbiKov/melodic-track-mixing-lib

- Created a tool to analyze track tonality and sort music by musical keys.

Lecture Notes korotenky.com/lecture_notes

- A set of mathematical notes that are aimed to explain complex topics of bachelor level in a very intuitive way using LaTeX, Typst and manim animations.

Skills

- **Programming Languages:** Python, Rust, OCaml, C++, C#, JavaScript
- **Web Development:** ASP.NET Core, Angular, React, MySQL
- **Data Science:** Pandas, Matplotlib, NumPy, scikit-learn
- **Other Tools:** Requests, Selenium, SQL
- **Version Control:** Git, GitHub, GitLab

Languages

- English (C1)
- French (C1)
- Ukrainian/Russian (native)

Interests & Extracurricular Activities

Scouting Sept 2017 — Present

- Active scout since age 12, organizing and participating in international events.
- Member of Scouts of Ukraine organization and Scouts of Dnipro association.

DJ Mar 2021 — Present

- Enjoys creating music and performing as a DJ during free time.