Artem Semidetnov

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Education _____

BS Saint-Petersburg State University, Mathematics

2021 - 2025

BS Neapolis University Of Pafos, Applied Computer Science JetBrains Program

2022 - 2024

Publications

On the geometry of free nilpotent groups 🗹

May 2021

Artem Semidetnov, Ruslan Magdiev

https://doi.org/10.48550/arXiv.2106.00095 🗹

Awards and Scholarships ______

Scholarship by "Rodnye Goroda" (a social investment program of PJSC "Gazprom neft"), 2023-2024 JetBrains Scholarship in Neapolis University

Teaching Experience _____

Sirius educational center, Teaching assistant on the course "Groups of intermediate growth" ☑

Sochi, Russia Apr 2024 – May 2024

Laboratory for continuous mathematical education, mathematics teacher for gifted students. I was teaching introduction to group theory.

2021 - 2023

Mathematics and Computer Science faculty program for prospective students, Teaching assistant on the course "Braid and knot theory"

June 2023

Selected Talks

On the geometry of free nilpotent groups

Siberian summer conference, Novosibirsk, Russia 2021

"On the Poisson boundary of lamplighter groups"

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St. Petersburg Seminar on Representation Theory and Dynamical Systems

Work Experience _____

JetBrains, Research Intern in HoTT and Dependent Types Lab

- Pafos, Cyprus June 2024 – Sept 2024
- I was developing the official library in the Arend language. I formalized different results in algebra and homotopy type theory, including following.
- Formalized Eckmann-Hilton argument, Eilenberg-Maclane spaces, Homologies of types.
- Formalized automorphisms of groups, Schur's Lemma, Maschke's Lemma, Group actions characterizations. (Some of these results are in the 1.10 release ☑)

IPONWEB (acquired by Criteo), Machine Learning Intern

Criteo has a ML tool that analyzes sites and produces word-2-vec representations.
 In IPONWEB I was trying to reverse-engineer the behaviour of this tool and analyze its possible applications.

Pafos, Cyprus May 2023 – Sept 2023

Miscellaneous _____

- Finalist of 2020 Intel ISEF
- Intel ISEF alumni
- Winner of 2019 Baltic SEF, PDMI special prize in 2019 Baltic SEF
- 3rd team place in 2019 International Tournament of Young Mathematicians ☑ in Barcelona, Spain
- Organizer of the Euler International Mathematical Institute's functional analysis seminar

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- English level C1 (IELTS 8.0/9)
- Invited judge in Saint-Petersburg Tournament of Young Mathematicians (since 2021)