Artem Semidetnov

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Educ	ation	
BS	Saint-Petersburg State University, Mathematics	2021 - 2025
BS	Neapolis University Of Pafos, Applied Computer Science JetBrains Program	2022 - 2024
M.Sc	University of Geneva, Mathematics	2025 - 2027
Publ	ications	
Arten	e geometry of free nilpotent groups ௴ n Semidetnov, Ruslan Magdiev //doi.org/10.48550/arXiv.2106.00095 ௴	May 2021
Awaı	ds and Scholarships	
JetBra Trave	arship by "Rodnye Goroda" (a social investment program of PJSC "Gazprom neft"), 20 ains Scholarship in Neapolis University I grant of Chebyshev laboratory for Winter student school in mathematics and CS of H ence fellowship in Geneva University 2025	
Teac	hing Experience	
Sirius growt	educational center, Teaching assistant on the course "Groups of intermediate h" [간	Sochi, Russia Apr 2024 – May 2024
Labo i stude	ratory for continuous mathematical education, mathematics teacher for gifted nts	Saint-Petersburg, Russia 2021 – 2023
	ematics and Computer Science faculty program for prospective students, Teachsistant on the course "Braid and knot theory"	Saint-Petersburg, Russia June 2023
Sele	cted Talks	
	e geometry of free nilpotent groups Siberian summer conference	Novosibirsk, Russia 2021
	he Poisson boundary of lamplighter groups" 🗹 St. Petersburg Seminar on Representation Theory and Dynamical Systems	Saint-Petersburg, Russia
	sting numbers on braid and Thompson's groups" ☑ Topological Methods in Dynamics and Related Topics VII	N.Novgorod, Russia 2024
Work	Experience	
JetBr	ains, Research Intern in HoTT and Dependent Types Lab	Pafos, Cyprus

- 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

Pafos, Cyprus June 2024 – Sept 2024 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, taken in 2020, 2024)
- Invited judge in Saint-Petersburg Tournament of Young Mathematicians (since 2021)
- Created mathematical problem for 2024 International Tournament of Young Mathematicians (10th in here 2.).
- Invited judge in International Tournament of Young Mathematicians 2024