Artem Semidetnov

 Saint-Petersburg

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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
Publ	ications	
On th	e geometry of free nilpotent groups ௴	May 2021
Arten	n Semidetnov , Ruslan Magdiev	
https	://doi.org/10.48550/arXiv.2106.00095 岱	
Awaı	rds and Scholarships	
Schol	arship by "Rodnye Goroda" (a social investment program of PJSC "Gazprom neft"), 202	3-2024
JetBr	ains Scholarship in Neapolis University	
Teac	hing Experience	
Siriu: growt	s educational center, Teaching assistant on the course "Groups of intermediate th" 🗹	Sochi, Russia Apr 2024 – May 2024
	ratory for continuous mathematical education, mathematics teacher for gifted onto	2021 - 2023
	ematics and Computer Science faculty program for prospective students, Teachsistant on the course "Braid and knot theory"	June 2023
Sele	cted Talks	
On th	e geometry of free nilpotent groups	Novosibirsk, Russia
• :	Siberian summer conference	2021
"On t	the Poisson boundary of lamplighter groups" ☑	Saint Petersburg
• :	St. Petersburg Seminar on Representation Theory and Dynamical Systems	
Work	k Experience	
JetBı	rains, Research Intern in HoTT and Dependent Types Lab	Pafos, Cyprus
	was developing the official library in the Arend language. I formalized different results in algebra and homotopy type theory, including following.	June 2024 – Sept 2024
•	Formalized Eckmann-Hilton argument, Eilenberg-Maclane spaces, Homologies of	

IPONWEB (acquired by Criteo), Machine Learning Intern

types.

• 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.

• Formalized automorphisms of groups, Schur's Lemma, Maschke's Lemma, Group actions characterizations. (Some of these results are in the 1.10 release ☑)

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)
- Created mathematical problem for 2024 International Tournament of Young Mathematicians (10th in here 🗹).