Artem Semidetnov

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Edu	ıcation	
BS	Saint-Petersburg State University, Mathematics	2021 – 2025
BS	Neapolis University Of Pafos, Applied Computer Science JetBrains Program	2022 – 2024
Pul	olications	
On the geometry of free nilpotent groups ☑ *Artem Semidetnov*, Ruslan Magdiev* https://doi.org/10.48550/arXiv.2106.00095 ☑ **Title Company of the property		May 2021
Aw	ards and Scholarships	
Jet Tra	olarship by "Rodnye Goroda" (a social investment program of PJSC "Gazprom neft"), 20 Brains Scholarship in Neapolis University yel grant of Chebyshev laboratory for Winter student school in mathematics and CS of H	SE and MCS ご, Mosco w
Siri	us educational center, Teaching assistant on the course "Groups of intermediate wth" ☑	Sochi, Russia Apr 2024 – May 2024
	oratory for continuous mathematical education, mathematics teacher for gifted dents	Saint-Petersburg, Russia 2021 – 2023
	chematics and Computer Science faculty program for prospective students, Teachassistant on the course "Braid and knot theory"	Saint-Petersburg, Russia June 2023
Sel	ected Talks	
	the geometry of free nilpotent groups Siberian summer conference	Novosibirsk, Russia 2021
	the Poisson boundary of lamplighter groups" 🗹 St. Petersburg Seminar on Representation Theory and Dynamical Systems	Saint-Petersburg, Russia
	visting numbers on braid and Thompson's groups" ば Topological Methods in Dynamics and Related Topics VII	N.Novgorod, Russia 2024
Wo	rk Experience	
Jet	Brains, 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 actions characterizations. (Some of these results are in the 1.10 release \(\overline{\mathbb{L}}\).

IPONWEB (acquired by Criteo), Machine Learning Intern

Pafos, Cyprus May 2023 - Sept 2023

June 2024 – Sept 2024

• 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.

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 **'**).
- Invited judge in International Tournament of Young Mathematicians 2024