Pafos, Cyprus May 2023 – Sept 2023

## **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
Publ	lications	
Arter	ne geometry of free nilpotent groups ௴ n Semidetnov, Ruslan Magdiev :://doi.org/10.48550/arXiv.2106.00095 ௴	May 2021
Awa	rds and Scholarships	
Scho	larship by "Rodnye Goroda" (a social investment program of PJSC "Gazprom neft"), 20	023-2024
JetBr	rains Scholarship in Neapolis University	
Teac	hing Experience	
	s educational center, Teaching assistant on the course "Groups of intermediate th" ☑	Sochi, Russia Apr 2024 – May 2024
<b>Laboratory for continuous mathematical education</b> , mathematics teacher for gifted students. I was teaching introduction to group theory.		Saint-Petersburg, Russia 2021 – 2023
	nematics and Computer Science faculty program for prospective students, Teachssistant on the course "Braid and knot theory"	Saint-Petersburg, Russia June 2023
Sele	cted Talks	
	ne 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
	sting numbers on braid and Thompson's groups" ば Topological Methods in Dynamics and Related Topics VII	N.Novgorod, Russia 2024
Worl	k Experience	
•	rains, Research Intern in HoTT and Dependent Types Lab  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 ☑)	Pafos, Cyprus 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

IPONWEB (acquired by Criteo), Machine Learning Intern

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 

  ✓
- 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