

# Roman Kniazev

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## Experience & education

<b>LaBRI, Université de Bordeaux</b> Post-doc, supervised by Nathanaël Fijalkow	Sep 2024 - now
<b>IRIF, Université Paris Cité, Paris, France</b> ATER (teaching and research fellow)	Sep 2023 - Aug 2024
<b>Ecole Polytechnique, Palaiseau, France</b> <i>PhD degree, thesis defended 16/11/23 "avec les félicitations du jury"</i> Laboratoire d'informatique de l'École Polytechnique (LIX) supervised by Eric Goubault and Jean Goubault-Larrecq	Sep 2020 - Aug 2023
<b>Ecole Normale Supérieure Paris-Saclay, Cachan, France</b> <i>Master degree, magna cum laude</i> Parisian Master of Research in Computer Science (MPRI)	Sep 2018 - Aug 2020
<b>Novosibirsk State University, Novosibirsk, Russia</b> <i>Bachelor degree, summa cum laude</i> Mathematics and computer science	Sep 2014 - Jun 2018

## Publications

<b>Simplicial Models for the Epistemic Logic of Faulty Agents</b> w/ Eric Goubault, Jérémy Ledent, Sergio Rajsbaum <a href="https://arxiv.org/abs/2311.01351">https://arxiv.org/abs/2311.01351</a>	accepted
<b>A many-sorted epistemic logic for chromatic hypergraphs</b> w/ Eric Goubault, Jérémy Ledent <i>32nd EACSL Annual Conference on Computer Science Logic</i> <a href="https://arxiv.org/abs/2308.00477">https://arxiv.org/abs/2308.00477</a>	CSL 2024
<b>Semi-simplicial Set Models for Distributed Knowledge</b> w/ Eric Goubault, Jérémy Ledent, Sergio Rajsbaum <i>38th Annual ACM/IEEE Symposium on Logic in Computer Science</i> <a href="https://arxiv.org/abs/2303.14976">https://arxiv.org/abs/2303.14976</a>	LICS 2023

## Teaching experience

<b>Université Paris Cité</b>	
<b>IP2:</b> Introduction to programming (Java), practice and labs, <b>48h</b>	2024
<b>PR6:</b> Networks (C), labs, <b>24h</b>	2024
<b>IP1:</b> Introduction to programming (Python), lectures and labs, <b>48h</b>	2023
<b>MD5:</b> Discrete mathematics, lectures, <b>30h</b>	2023
<b>Ecole Polytechnique</b>	2022
<b>CSE101:</b> Introduction to programming (Python), teaching assistant, <b>168h</b>	2021
	2020

**CSE305: Concurrent and distributed computing (C++), teaching assistant, 36h**

2022  
2021

## Talks

<b>Knowledge in simplicial sets and hypergraphs</b> DC reading group, Télécom Paris	26/01/2024
<b>Simplicial models for epistemic logic (sprinkled with concurrency)</b> Ipomset project online seminar	01/12/2023
<b>Hypergraphs for knowledge</b> Dagstuhl seminar 23272	04/07/2023
<b>Semi-simplicial set models for distributed knowledge (and beyond)</b> LIS, Université Aix-Marseille	04/05/2023
<b>Chromatic semi-simplicial set model for group knowledge</b> Journées LHC 2022	13/10/2022
<b>(Epistemic) modal logic from the topos point of view</b> LIPN, Université Sorbonne Paris Nord	17/06/2022

## Internships

<b>LSV, Ecole Normale Supérieure Paris-Saclay, France</b> Topic: "Topoi and directed topology" Supervised by Jean Goubault-Larrecq and Eric Goubault	Apr 2020 - Jul 2020
<b>LIX, Ecole Polytechnique, France</b> Topic: "Topos of a trace category" Supervised by Eric Goubault and Aurelien Sagnier	Feb 2019 - Jul 2019

## Scholarships

<b>Université Paris-Saclay international student mobility scholarship</b>	2018 – 2020
<b>Maltsev scholarship</b> , 2 scholarships for the department	2017 – 2018
<b>BP Scholarship for Excellent Students</b> , 10 scholarships for the university	2016 – 2017
<b>Alfa-Bank scholarship for outstanding university newcomers</b> , 10 scholarships for the university	2014 – 2016

## Academic service

### Reviewer:

- CONCUR 2022
- RAMICS 2023
- Journal of Logic and Computation 2024
- JAIR 2024
- AiML 2024

### Member of organizing committee:

- GETCO 2022

**Organizer** of a local young researchers seminar at LIX

Mar 2022 – Mar 2023

## **Miscellaneous**

### **Extracurricular activities :**

Student representative in the scientific council of  
Department of Mathematics and Mechanics, NSU

Oct 2016 – Mar 2018

**Languages:** English, French, Russian