

Igor Khmelnitsky

Curriculum vitae

Paris, France
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Education

- 2018–currently **Ph.D. Computer Science**, *LSV, École normale supérieure Paris-Saclay*, France.
Under the supervision of Prof. Alain Finkel and Prof. Serge Haddad .
- 2015–2018 **M.Sc. Mathematics**, *Technion - Israel Institute of Technology*, Haifa, Israel.
Under the supervision of Prof. Roy Meshulam.
- 2011–2015 **B.Sc. Mathematics**, *Technion - Israel Institute of Technology*, Haifa, Israel.
B.Sc. of mathematics with specialization in computer science.

Research Interest

My current research interest is studying verification of infinite-state systems. Specifically coverability and reachability in Petri nets, using among others machine learning techniques.

Academic Activities

Scientific Committee

- 2018–2019 **Member**, *ForMal spring school*, Paris.
Spring School focused on the topics of Formal Methods and Machine Learning

Publications

Alain Finkel, Serge Haddad, and Igor Khmelnitsky. Coverability and termination in recursive petri nets. In Susanna Donatelli and Stefan Haar, editors, *Application and Theory of Petri Nets and Concurrency*, pages 429–448, Cham, 2019. Springer International Publishing.

Alain Finkel, Serge Haddad, and Igor Khmelnitsky. Réification des accélérations pour la construction de karp et miller. Accepted and will be published in the proceedings of "Modélisation des Systèmes Réactifs 2019", 2019.

Experience

Teaching

- 2015–2018 **Teaching assistant**, *Technion - Israel Institute of Technology*, Haifa.
Teaching linear algebra and combinatorial algorithms courses in the Technion.
- 2016 **Excellent Instructor - Award**, *Technion*, Haifa.
Technion Excellency in teaching award

2017 **Permanent Excellent Faculty Instructor - Award**, *Technion*, Haifa.
Technion Excellency in teaching award

2018 **Permanent Excellent Instructor - Award**, *Technion*, Haifa.
Technion Excellency in teaching award

Programming

2013–2015 **Programmer**, *Intel*, Haifa.
Student position in DTS where I participated in 2 major projects. Was a member of the “Tools and Practices”.

Languages

Hebrew **Native.**
English **Fluent in speaking, reading and writing.**
Russian **Fluent in speaking.**
French **Beginner.**

Computer skills

Programming C#, C, C++, Python
Scientific Matlab, SageMath
Typography L^AT_EX, Word.

Interests

Science & Technology I love discovering the world we live in. This is a feeling that just keeps growing from year to year.

Traveling I love traveling around the world, hiking in remote areas, and plan to do that as much as possible.

Board games Board games hobby has seen a tremendous growth in interests in the last couple of years, and I found myself being a part of the statistics. I am interested in Board games not only because of their social aspects but also in their systems and design.