

Victor Lanvin

PhD Student at IRIF

8 avenue Francis Bergeron
91600 Savigny Sur Orge
☎ +33 6 45 35 39 23
✉ victor.lanvin@irif.fr
Date of birth: March, 19th 1993

Studies

- 2017– **PhD Student**, in *Computer Science at IRIF, Paris Diderot University*,
Supervisor: Giuseppe Castagna.
Subject: Gradual Typing with Union and Intersection Types
- 2016–2017 **L3 (Bachelor's degree)**, in *Physics at ENS Paris-Saclay*,
Final mark: 13.97/20, 7th (out of 33).
- 2015–2016 **M2 (second year of Master's Degree)**, *MPRI at ENS Cachan*,
Final mark: 16.26/20, 14th (out of 62).
- 2014–2015 **M1 (first year of Master's Degree)**, *MPRI at ENS Cachan*,
Final mark: 16.56/20, 6th (out of 18).
- 2013–2014 **L3 (Bachelor's degree)**, of *Computer Science at ENS Cachan*,
Final mark: 15.5/20, 5th (out of 16).
- 2010–2013 **Prep class MPSI-MP* (Mathematics and Physics)**,
Advanced three-year undergraduate program for competitive exams,
Lycée Henri Wallon, Valenciennes (France).
- 2009–2010 **Baccalauréat with honors**,
Lycée Henri Wallon, Valenciennes (France).

Publications

- Castagna, G., and Lanvin, V. Gradual typing with union and intersection types. *Proceedings of the ACM on Programming Languages 1*, ICFP (2017), 41.
- Castagna, G., Lanvin, V., Petrucciani, T., and Siek, J. Polymorphic gradual typing: A set-theoretic perspective. In *24th International Conference on Types for Proofs and Programs (TYPES 2018)*.
- Castagna, G., Lanvin, V., Petrucciani, T., and Siek, J. Gradual typing: a new perspective. *Proceedings of the ACM on Programming Languages*, POPL (2019). To appear.

Awards

- 2018 **Google PhD Fellowship**, in *Programming Technology and Software Engineering*.
- 2017 **First Place Winner**, at the *ACM Student Research Competition Grand Finals*.
Subject: Gradual Typing for Set-Theoretic Types
- 2017 **First Place Winner**, at the *ACM Student Research Competition at POPL '17*.
Subject: Gradual Typing for Set-Theoretic Types

Teaching

- 2018–2019 **Tutorial classes (TD)**, for the course “*Éléments d’Algorithmique*” (EA3) in the *2nd year of bachelor*.
Lectures given by Anne Micheli.
- 2018–2019 **Practical work (TP)**, for the course “*Programmation Fonctionnelle*” (PF5) in the *3rd year of bachelor*.
Lectures given by Michele Pagani.

- 2017–2018 **Practical work (TP)**, for the course “*Introduction à la Programmation en Python*” (IP1) in the 1st year of bachelor.
Lectures given by Arnaud Sangnier.
- 2017–2018 **Practical work (TP)**, for the course “*Analyse de Données Structurées*” (ADS4) in the 2nd year of bachelor.
Lectures given by Ralf Treinen.

Internships

- 2017 **Undergraduate Internship in Physics**, at *IMCCE, Paris Observatory, France*,
Supervisor: Nicolas Rambaux.
Subject: Study of Binary Systems of Trans-Neptunian Objects
- 2016 **M2 Internship**, at *IRIF, Paris Diderot University, France*,
Supervisor: Giuseppe Castagna.
Subject: Gradual Typing for Set-Theoretic Types
- 2015 **M1 Internship**, at the *RWTH team MOVES in Aachen, Germany*,
Supervisors: Joost-Pieter Katoen, Christina Jansen and Christoph Matheja.
Subject: Verification of Pointer Programs: A Tool Comparison
- 2014 **Undergraduate Internship**, at the *LIFL team Biocomputing in Lille, France*,
Supervisors: Joachim Niehren and Cristian Versari.
Subject: Prediction methods for metabolic networks, for predicting gene knockouts, based on abstract interpretation.
- 2013 **TIPE (Prep class project for competitive exams)**.
Subject: Neural networks for pattern recognition

Skills

- Languages French (native), English.
- Programming OCaml, C, C++, Scala, Python, Haskell, Prolog, Coq, ASM, Fortran, HTML, CSS, Matlab.
- Office Unix systems & Windows, Latex, Microsoft Office.