Hugo Moeneclaey

	Education
2012 2022	
2019–2022	PhD on homotopy type theory, <i>Université de Paris</i> , IRIF, Advised by Hugo Herbelin
2017–2018	Master of pure mathematics, Université Pierre et Marie Curie.
2015–2017	Master of research in computer science, Université Paris-Saclay, MPRI.
2014–2015	Bachelor in mathematics, Université Paris-Diderot.
2014–2015	Bachelor in computer science, Université Paris-Diderot.
2012–2014	Classe préparatoire, Lycée Henri IV, Paris, Joined ENS Cachan.
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	Internships
2019	Type theory research internship , <i>Université Paris-Diderot</i> , France. <i>Toward a cubical type theory with univalence by definition</i> with Hugo Herbelin.
2018	Type theory research internship , <i>Stockholm University</i> , Sweden. <i>Higher monoids in two-level type theory</i> with Peter LeFanu Lumsdaine.
2018	Homotopy theory master thesis, <i>Université Pierre et Marie Curie</i> , France. <i>Quasi-categories and complete segal spaces</i> with Georges Maltsiniotis.
2017	Proof theory research internship , <i>Technische Universität Wien</i> , Austria. <i>Expansion proofs for arithmetic</i> with Stefan Hetzl.
2016	Type theory research internship , <i>Chalmers University of Technology</i> , Sweden. <i>Finitary Higher inductive types in the setoid model</i> with Peter Dybjer.
2015	Signal processing research internship , École Normale Supérieure Cachan, France A high quality method to resample an image by a homography with Enric Meinrhardt-Llopis and Jean-Michel Morel.
	Publications
LICS 2021	Parametricity and semi-cubical types.
MFPS 2017	Finitary higher inductive types in the groupoid model, with Peter Dybjer.
	Teaching & Advising
2019–2022	Teaching assistant, Université de Paris. — Homotopy type theory, Master LMFI. — Introduction to databases, Bachelor. — Differential equations for biologists, Bachelor. — Reading and writing scientific documents, Bachelor.
2021	Bachelor internship, Université de Paris.

Advised Louis Gervais on Learning Coq through synthetic homotopy theory

Computer skills

Coq, Agda Assisted mathematical proofs

LATEX Writing of scientific documents

Ocaml Compiler from C to assembly language as a bachelor project.