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## DIPLOMAS

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- 2017** Informatics PhD of the Université Sorbonne Paris Cité.  
Prepared at Université Paris 13, in the Laboratoire d'Informatique de Paris Nord.  
Thesis titled «Reductions & linear approximations» defended on the 8<sup>th</sup> december 2017 in front of a jury containing:  
Pierre-Louis Curien    president  
Stefano Guerrini     adviser  
Damiano Mazza       co-adviser  
Guy McCusker        reviewer  
Luke Ong  
Nicolas Tabareau  
Christine Tasson  
(Thomas Streicher    reviewer)
- 2014** Parisian Master of Research in Computer Science (MPRI).  
Université Paris 7 — *magna cum laude*, rank of 7<sup>th</sup> on 53.
- 2013** Qualified mathematics teacher (Agrégation externe de Mathématiques).  
Rank of 18<sup>th</sup>.  
The *agrégation* is a nationwide competitive examination with more than three thousand applicants and three hundred successful candidates, recruiting for secondary and undergraduate teacher's positions at master's level.

## POSITIONS

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- 01/12/2018** → **30/09/2018** Post-doctorate researcher Rapido.  
*Institut de Recherche en Informatique Fondamentale*, Université Paris Diderot.
- 01/02/2018** → **30/11/2018** Post-doctorate researcher Pedeciba.  
*Instituto de Matemática y Estadística "Prof. Ing. Rafael Laguardia"*, Universidad de la República.  
Montevideo, Uruguay.
- 01/09/2017** → **31/01/2018** Temporary assistant professor.  
*Laboratoire d'Informatique du Parallélisme*, ENS Lyon.
- 01/09/2014** → **31/08/2017** PhD candidate with a teaching duty.  
*Laboratoire d'Informatique de Paris Nord*, Institut Galilée, Université Paris 13.



## PUBLICATIONS

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### INTERNATIONAL JOURNALS WITH READING COMMITTEE

- (1) "Approximations, Fibrations and Intersection Type Systems"  
Damiano Mazza, Luc Pellissier, and Pierre Vial  
PACM PL 2 (POPL), Jan. 2018  
In : *Proceedings of the ACM on Programming Languages* (PACM PL), 2 (Principles of Programming Languages), pages 6:1–6:28. Sous la direction de Philip Wadler and Andrew Myers, Association for Computer Machinery, New York, 2018.

### INTERNATIONAL CONFERENCES WITH READING COMMITTEE

- (2) "Glueability of resource proof-structures: inverting the Taylor expansion"  
Giulio Guerrieri, Luc Pellissier, and Lorenzo Tortora de Falco  
CSL vol. 2020, Barcelone, 2020  
In : *28<sup>th</sup> Annual Conference on Computer Science Logic*, Leibniz International Proceedings in Informatics, pages . Sous la direction de , Schloss Dagstuhl–Leibniz-Zentrum für Informatik, Dagstuhl, 2020.
- (3) "Proof-nets as graphs, Taylor expansion as pullback"  
Giulio Guerrieri, Luc Pellissier, and Lorenzo Tortora de Falco  
WoLLIC vol. 2019, Utrecht, July 2019  
In : *26<sup>th</sup> Workshop on Logic, Language, Information and Computation*, Lecture Notes in Computer Science 11541, pages pp. 282–300. Sous la direction de Rosalie Iemhoff, and Michael Moortgat, and Ruy J. G. B. de Queiroz, Springer, 2019.

- (4) “Computing (connected) proof-structures from their Taylor expansion”  
Giulio Guerrieri, Luc Pellissier, and Lorenzo Tortora de Falco  
FSCD (ex RTA-TLCA) vol. 2016, Porto, June 2016  
In : *1<sup>st</sup> International Conference on Formal Structures for Computation and Deduction, sucesor to Rewriting Techniques and Applications and Typed Lambda-Calculi and Applications*, Leibniz International Proceedings in Informatics 52, pages 20:1–20:18. Sous la direction de Delia Kesner and Brigitte Pientka, Schloss Dagstuhl–Leibniz-Zentrum für Informatik, Dagstuhl, 2016.
- (5) “A Functorial Bridge between the Infinitary Affine Lambda-Calculus and Linear Logic”  
Damiano Mazza and Luc Pellissier  
ICTAC vol. 2015, Cali, Oct. 2015  
In : *12<sup>th</sup> International Colloquium on Theoretical Aspects of Computing*, Lecture Notes in Computer Science 9399, pages pp. 144–161. Sous la direction de Martin Leucker, and Camilo Rueda, and Frank Valencia, Springer, 2015.

#### INTERNATIONAL WORKSHOPS WITHOUT PROCEEDINGS (ON ARTICLES)

- (6) “A structuralist framework for the automatic analysis of mathematical texts”  
Juan Luis Gastaldi and Luc Pellissier  
Symposium on *Text-driven approaches to the philosophy of mathematics* (TDPHiMa), part of the  
*16<sup>th</sup> International Congress on Logic, Methodology and Philosophy of Science and Technology* (CLMPST vol. 2019)  
Prague, Aug. 2019
- (7) “Duality and interaction: a common dynamics behind logic and natural language”  
Juan Luis Gastaldi and Luc Pellissier  
*16<sup>th</sup> International Congress on Logic, Methodology and Philosophy of Science and Technology* (CLMPST vol. 2019)  
Prague, Aug. 2019
- (8) “The Logic of Language: An alternative logical approach to machine learning based on the case of Natural Language Processing”  
Juan Luis Gastaldi and Luc Pellissier  
*5<sup>th</sup> International Conference on the History and Philosophy of Computing* (HaPoC vol. 2019)  
Bergamo, Oct. 2019

#### INTERNATIONAL WORKSHOPS WITHOUT PROCEEDINGS (ON ABSTRACTS)

- (9) “Relational type-checking for MELL proof-structures. Part 1: Multiplicatives”  
Giulio Guerrieri, Luc Pellissier, and Lorenzo Tortora de Falco  
*8<sup>th</sup> Workshop on Intersection Types and Related Systems* (ITRS vol. 2016)  
Porto, June 2016
- (10) “Monetary Economics Simulation: Stock-Flow Consistent Invariance, Monadic Style”  
Pierre Boudes, Antoine Kaszyc, and Luc Pellissier  
*11<sup>th</sup> Artificial Economics Conference* (AE vol. 2015)  
Porto, Sept. 2015
- (11) “Injectivity of relational semantics for (connected) MELL proof-nets via Taylor expansion”  
Giulio Guerrieri, Luc Pellissier, and Lorenzo Tortora de Falco  
*8<sup>th</sup> International Workshop for Computing with Terms and Graphs* (TermGraph vol. 2014)  
Vienne, July 2014

#### SUBMITTED

- (12) “Towards circular proof nets”  
Abhishek De, Luc Pellissier, and Alexis Saurin  
*Circularity in Syntax and Semantics* (CiSS vol. 2019)  
Göteborg, Nov. 2019
- (13) “What is the Taylor expansion a natural transformation of?”  
Luc Pellissier  
*3<sup>rd</sup> International Workshop on Trends in Linear Logic and Applications* (TLLA vol. 2018)  
Dortmund, June 2019
- (14) “PRAMS over integers do not compute maxflow efficiently”  
Luc Pellissier and Thomas Seiller  
*2019 Workshop on Developments in Implicit Computational complexity & Foundational & Practical Aspects of Resource Analysis* (DICE-FOPARA vol. 2019)  
Prague, Apr. 2019
- (15) “Generalized generalized species of structure and resource modalities”  
Luc Pellissier  
*Joint session of the 5<sup>th</sup> International Workshop on Linearity and the 2<sup>nd</sup> International Workshop on Trends in Linear Logic and Applications* (TLLA/Linearity vol. 2018)  
Oxford, July 2018
- (16) “Entropy and Complexity Lower Bounds”  
Luc Pellissier and Thomas Seiller  
*Joint session of the 5<sup>th</sup> International Workshop on Linearity and the 2<sup>nd</sup> International Workshop on Trends in Linear Logic and Applications* (TLLA/Linearity vol. 2018)  
Oxford, July 2018

- (17) “Entropy and Complexity Lower Bounds”  
Luc Pellissier and Thomas Seiller  
*9<sup>th</sup> International Workshop on Developments in Implicit Computational Complexity* (DICE vol. 2018)  
Thessalonique, Apr. 2018
- (18) “Normalization by Evaluation in Linear Logic”  
Jules Chouquet, Giulio Guerrieri, Luc Pellissier, Lorenzo Tortora de Falco, and Lionel Vaux  
*XXVI incontro dell’Associazione Italiana di Logica e sue Applicazioni* (AILA vol. 2017)  
Padoue, Sept. 2017
- (19) “Normalization by Evaluation in Linear Logic”  
Jules Chouquet, Giulio Guerrieri, Luc Pellissier, Lorenzo Tortora de Falco, and Lionel Vaux  
*1<sup>st</sup> International Workshop on Trends in Linear Logic and Applications* (TLLA vol. 2017)  
Oxford, Sept. 2017
- (20) “Coherence, Taylor expansion, and box-connected proof-structures”  
Giulio Guerrieri, Luc Pellissier, and Lorenzo Tortora de Falco  
*1<sup>st</sup> International Workshop on Trends in Linear Logic and Applications* (TLLA vol. 2017)  
Oxford, Sept. 2017
- (21) “Approximations, Fibrations and Intersection Type Systems”  
Damiano Mazza, Luc Pellissier, and Pierre Vial  
*1<sup>st</sup> International Workshop on Trends in Linear Logic and Applications* (TLLA vol. 2017)  
Oxford, Sept. 2017
- (22) “Anticipation Flowing Backwards in a Functional Monetary Economics Simulation”  
Pierre Boudes, Antoine Kaszyc, and Luc Pellissier  
*12<sup>th</sup> Artificial Economics Conference* (AE vol. 2016)  
Rome, Sept. 2016
- (23) “Relational type-checking of MELL proof-structures”  
Giulio Guerrieri, Luc Pellissier, and Lorenzo Tortora de Falco  
*7<sup>th</sup> International Workshop on Developments in Implicit Computational Complexity* (DICE vol. 2016)  
Eindhoven, Apr. 2016
- (24) “Injectivity of relational semantics with respect to MELL proof-nets and the Taylor expansion”  
Giulio Guerrieri, Luc Pellissier, and Lorenzo Tortora de Falco  
*8<sup>th</sup> International Conference on Topology, Algebra and Categories in Logic* (TACL vol. 2015)  
Ischia, June 2015

## PRESENTATION

- 2 submitted talks at international conferences;
- 1 invited talk at an international workshop;
- 6 submitted talks at international workshops;
- 6 talks at national or regional working days;
- 16 talks at local seminars.

## INVITATIONS

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**january 2018** Invited at the Institut de Recherche en Informatique Fondamentale, Université Paris 7 – Diderot.

**april 2017** Invited at the Datalogistik Institute, København Universitet.

**january 2017** Invited at the Dipartimento di Matematica e Fisica, Università di Roma 3.

**september 2014** Invited at the Dipartimento di Matematica e Fisica, Università di Roma 3.

## THEMATIC SCHOOLS

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**27-30 june 2018** Thematic School *Contemporary Mathematics and Philosophy*, Saint-Flour, France.

**19-22 july 2016** Boreal Summer School *Realizability in Uruguay*, Piriapolis, Uruguay.

**15-27 june 2015** *Oregon Programming Languages Summer School*, Eugene, Oregon.

**7-18 april 2014** Spring school *Sémantique des preuves et des programmes et formalisation des mathématiques*, Luminy, France.

**may 2012** Series of lectures *Temi di ricerca fra logica e filosofia* by Jean-Yves Girard at the Università di Roma 3.

## TEACHING

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	Formation	Students	Year	hands-on	lab	Orals	
Optimisation & Approximation	4 Computer Science	20	17-18	28 h			ENS Lyon
Algorithmics	3 Computer Science	25	17-18	32 h			
Network performance evaluation	4 Computer Science	15	17-18	28 h			
Robotics	1 Computer Science	50	16-17	18 h	18 h		Paris 13
Architecture & System	2 Computer Science	25	16-17		19,5 h		
Imperative Programming	1 Mathematics	40	15-16	21 h	15 h		
Algorithmics (linear algebra)	1 Computer Science	40	15-16	6 h	9 h		
Computability and Decidability	3 Computer Science	40	14-15	19,5 h			
Elements of computer science	1 Physics & Chemistry	40	16-17	9 h			
	1 Sciences	50	14-15	18 h	21 h		
Quantitative methods	1 Sociology	50	13-14	24 h			Paris 4
Oral examinations of mathematics	1 MPSI	50	12-13			60 h	Lycée Buffon
	Mathematics			24 h		60 h	
	Computer Science			179,5 h	82,5 h		
	Total			203,5 h	82,5 h	60 h	

## RESPONSIBILITIES

### ELECTED

**2015-2017** Member of LIPN's board, representing non-tenured researchers, and also of the Computer Science department's board, representing non-tenured teachers.

**2013-2014** Member of the Scientific board of the ENS Cachan, representing students.

### REVIEWING

Three articles reviewed for international journals or conferences.

### JURY

**2018** Proof-reader for one of the competitive entrance examination of the ENS Lyon.

### RESEARCH ANIMATION

**december 2016** Member of the organizing committee and the scientific committee of the workshop *Modelling and Analysis of Complex Monetary Economies III* (MACME III), Villetaneuse.

**december 2015** Member of the organizing committee of the workshop MACME II, Saint-Denis.



## LANGUAGES

**French** Mother tongue.

**Italian** Read, written, spoken fluently.  
*Option Internationale du Baccalauréat*, C2 level, 2008.

**English** Read, written, spoken.  
*Cambridge Certificate in Advanced English*, C1 level, 2008.

**Russian** Basics.  
*Diplôme d'initiation au Russe de l'Inalco*, A2 level, 2015.

**Spanish** Basics.  
Self-evaluated A2 level.

## MISCELLANEOUS

- 2016-2017** Juror at the *Concours Général Agricole* – annual state-run competition priming animals, agricultural products and wines – in wine, meat, oil and beer.
- 2015, 2017** Juror at the *Concours des Vignerons Indépendants* (independent winemakers competition) of Paris.
- 2014-2015** Student in Russian, at the *Institut National des Langues Orientales*.  
30 ECTS (a full university year is normalized at 60 ECTS).
- 2013-2014** Student in religious anthropology at the *École Pratique des Hautes Études*. 20 ECTS.
- 2013-2014** Student in philosophy at Université Paris Ouest – Nanterre.  
55 ECTS.
- 2011-2013** Founding treasurer of the wine tasting club of ENS Cachan.