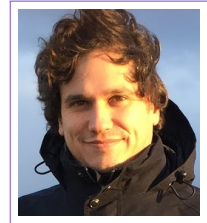


Thomas Seiller

Curriculum Vitae

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Positions

- 2018– **Research Scientist, CNRS.**
Chargé de Recherche 1^{ère} classe (Research Tenured Position, Associate Professor level)
Laboratory: Laboratoire d'Informatique de Paris Nord (LIPN), Paris 13 University.
- 2015–2018 **Post-Doctoral Researcher, University of Copenhagen.**
Marie Curie Individual Fellowship (Horizon 2020)
- 2014–2015 **Post-Doctoral Researcher, Paris 7 University.**
- 2013–2014 **Post-Doctoral Researcher, IHÉS and IHP.**
CARMIN post-doctoral fellowship
- 2012–2013 **Post-Doctoral Researcher, INRIA.**
- 2011–2012 **Assistant Professor (Computer Science), Université de Savoie.**
- 2008–2011 **Research and Teaching Assistant (Mathematics), Université de la Méditerranée.**

Grants/Awards

- 2021 **International Collaboration Project (10K€), INS2I – CNRS.**
Participants: University of Copenhagen and University of Aarhus.
- 2020 **Two-years Scientific Project (20K\$), Thomas Jefferson Fund, FACE Foundation.**
Participants: School of Computer Science at Augusta University (local head: Clément Aubert).
- 2020 **Scientific Project (67K€), DIM RFSI, Ile-de-France region.**
Participants: Maxime Lucas, Damiano Mazza, Samuel Mimram.
- 2020 **International Collaboration Project (7K€), INS2I – CNRS.**
Participants: University of Copenhagen and University of Aarhus.
- 2019 **Exploratory Project (7K€), PEPS Blanc 2019, INS2I – CNRS.**
- 2018 **Young Investigator Project (7K€), JCJC 2018 call, INS2I – CNRS.**
- 2015 **Marie Curie Individual Fellowship (212K€), Call H2020-MSCA-IF-2014.**
- 2015 **Best Paper Award, An intensionally fully-abstract sheaf model for π , CALCO 2015.**
- 2013 **CARMIN postdoctoral fellowship.**
Combined stay at the "Institut des Hautes Études Scientifiques" and the "Institut Henri Poincaré"
- 2008 **PhD fellowship, from the French ministry for Higher Education and Research.**
- 2007 **"Bourse d'excellence", from the French ministry for Higher Education and Research.**

Supervision

- Postdoc **Maxime Lucas, Sorbonne Paris Nord, September 2020 – August 2021.**
- PhD **William Troiani, University of Melbourne and Paris 13 University, from December 2020.**

- PhD **Sambo Boris Eng**, *Paris 13 University*, from October 2019.
PhD **Pierre-Yves Coursolles**, *École Polytechnique*, from October 2018.
PhD **Nguyễn Lê Thành Dũng**, *Paris 13 University*, from September 2018.
Master **Sambo Boris Eng**, *Paris 7 University*, March – August 2019.
Master **Nguyễn Lê Thành Dũng**, *ÉNS Paris*, January – July 2018.
Licence **Paul Séjourné**, *Sorbonne Université*, February – June 2020.
Licence **Derek So**, *University of Cambridge*, June – September 2019.
Licence **Seng Beng Goh**, *University of Cambridge*, June – September 2018.

Education

- PhD **Mathematics**, *Aix-Marseille University*.
Master **Mathematical Logic and Foundations of Computer Science**, *U. Paris 7*.
Maitrise **Philosophy**, *Paris 1 University*.
Licence **Mathematics**, *Strasbourg 1 University*.

Publications (Peer Reviewed)

- Journal **Interaction Graphs: Multiplicatives**, *Annals of Pure and Applied Logic* 163 (2012), pp. 1808-1837, DOI: [10.1016/j.apal.2012.04.005](https://doi.org/10.1016/j.apal.2012.04.005).
- Journal **Interaction Graphs: Additives**, *Annals of Pure and Applied Logic* 167 (2016), pp. 95-154, DOI: [10.1016/j.apal.2015.10.001](https://doi.org/10.1016/j.apal.2015.10.001).
- Journal **Characterizing co-NL by a Group Action**, *Mathematical Structures in Computer Science* 26 (2016), pp. 606-663, with C. Aubert, DOI: [10.1017/S0960129514000267](https://doi.org/10.1017/S0960129514000267).
- Journal **Logarithmic Space and Permutations**, *Information and Computation* 248 (2016), pp. 2-21, with C. Aubert, DOI: [10.1016/j.ic.2014.01.018](https://doi.org/10.1016/j.ic.2014.01.018).
- Journal **Interaction Graphs: Graphings**, *Annals of Pure and Applied Logic* 168 (2017), pp. 278-320, DOI: [10.1016/j.apal.2016.10.007](https://doi.org/10.1016/j.apal.2016.10.007).
- Journal **An intensionally fully-abstract sheaf model for π (extended version)**, *Logical Methods in Computer Science* 13 (2017), with C. Eberhart, T. Hirschowitz, DOI: [10.23638/LMCS-13\(4:9\)2017](https://doi.org/10.23638/LMCS-13(4:9)2017).
- Journal **A Correspondence between Maximal Abelian Sub-Algebras and Linear Logic Fragments**, *Mathematical Structures in Computer Science* 28 (2018), pp. 77-139, DOI: [10.1017/S0960129516000062](https://doi.org/10.1017/S0960129516000062).
- Journal **Interaction Graphs: Nondeterministic Automata**, *ACM Transactions in Computational Logic* 19 (2018), DOI: [10.1145/3226594](https://doi.org/10.1145/3226594).
- Journal **Coherent Interaction Graphs: A Non-Deterministic Geometry of Interaction for MLL**, *EPTCS post-proceedings of Linearity-TLLA 2018*, with L.T.D. Nguyễn, DOI: [10.4204/EPTCS.292.6](https://doi.org/10.4204/EPTCS.292.6).
- Journal **Interaction Graphs: Exponentials**, *Logical Methods in Computer Science* 15 (2019), [10.23638/LMCS-15\(3:25\)2019](https://doi.org/10.23638/LMCS-15(3:25)2019).
- Conference **Logic Programming and Logarithmic Space**, *Lecture Notes in Computer Science Vol. 8858 (Proceedings of APLAS 2014)*, with C. Aubert, M. Bagnol, and P. Pistone, DOI: [10.1007/978-3-319-12736-1_3](https://doi.org/10.1007/978-3-319-12736-1_3).
- Conference **An intensionally fully-abstract sheaf model for π** , *6th Conference on Algebra and Coalgebra in Computer Science (CALCO 2015)*, with C. Eberhart and T. Hirschowitz, DOI: [10.4230/LIPIcs.CALCO.2015.86](https://doi.org/10.4230/LIPIcs.CALCO.2015.86).

- Conference **Unary Resolution: Characterizing Ptime**, *19th International Conference on Foundations of Software Science and Computation Structures (FoSSaCS 2016)*, with C. Aubert and M. Bagnol, DOI: [10.1007/978-3-662-49630-5_22](https://doi.org/10.1007/978-3-662-49630-5_22).
- Conference **Interaction Graphs: Full Linear Logic**, *ACM/IEEE Logic in Computer Science (LICS 2016)*, pp. 427-436, DOI: [10.1145/2933575.2934568](https://doi.org/10.1145/2933575.2934568).
- Conference **Loop Quasi-Invariant Detection**, *International Symposium on Automated Technology for Verification and Analysis (ATVA 2017)*, with J.-Y. Moyén and T. Rubiano, DOI: [10.1007/978-3-319-68167-2_7](https://doi.org/10.1007/978-3-319-68167-2_7).
- Chapter **On the Computational Meaning of Axioms**, In O. Pombo, A. Nepomuceno, J. Redmond (Ed.) *Epistemology, Knowledge and the Impact of Interaction (Springer)*, with A. Naibo and M. Petrolo, DOI: [10.1007/978-3-319-26506-3_5](https://doi.org/10.1007/978-3-319-26506-3_5).
- Chapter **Verificationism and classical realizability**, In C. Baskent (Ed.) *Perspectives on Interrogative Models of Inquiry (Springer)*, with A. Naibo and M. Petrolo, DOI: [10.1007/978-3-319-20762-9_9](https://doi.org/10.1007/978-3-319-20762-9_9).
- Workshop **Loop Quasi-Invariant Chunk Motion by peeling with statement composition**, In *Proceedings DICE-FOPARA 2017*, with J.-Y. Moyén and T. Rubiano, DOI: [10.4204/EPTCS.248.9](https://doi.org/10.4204/EPTCS.248.9).

Publications (Others)

- Recension **Recension de "The blind spot. Lectures on logic" par J.-Y. Girard (European Mathematical Society, 2011)**, *Gazette des Mathématiciens 142*, pp.136-143, with C. Rétoré, [hal-01076369](https://hal.archives-ouvertes.fr/hal-01076369).
- Proceedings **Why Complexity Theorists Should Care About Philosophy**, In Jean Fichot, Thomas Piecha (editors), *Beyond Logic. Proceedings of the Conference held in Cerisy-la-Salle*, pp. 381–393., DOI: [10.15496/publikation-18676](https://doi.org/10.15496/publikation-18676).

Peer Reviewed Communications without formal Proceedings

- 2013 **Logarithmic Space and Permutations**, *DICE 2013*.
- 2015 **Measurable Preorders and Complexity**, *TACL 2015*.
- 2016 **Interaction Graphs and Quantitative Semantics**, *GaLoP 2016*.
- 2018 **A semantic conjecture on second-order MLL and its complexity consequences (work in progress)**, *Linearity-TLLA 2018*, with L.T.D. Nguyễn.
- 2018 **Coherent Interaction Graphs: A Non-Deterministic Geometry of Interaction for MLL**, *Linearity-TLLA 2018*, with L.T.D. Nguyễn.
- 2018 **Entropy and Complexity Lower Bounds**, *DICE 2018*, with Luc Pellissier.
- 2018 **Entropy and Complexity Lower Bounds**, *Linearity-TLLA 2018*, with Luc Pellissier.
- 2019 **PRAMs over integers do not compute maxflow efficiently**, *DICE-FOPARA 2019*, with L. Pellissier.
- 2019 **Finite semantics of polymorphism, complexity and the power of type fix-points**, *DICE-FOPARA 2019*, with L.T.D. Nguyễn, P. Pistone and L. Tortora de Falco.

Tools/Software

- Software **A prototype LLVM pass, implementing the loop optimisation described in the series of joint papers with J.-Y. Moyén and T. Rubiano**.
https://github.com/ThomasRuby/lqicm_pass

Software **A proof-of-concept in python for optimising C programs**, *implementing the loop optimisation described in the series of joint papers with J.-Y. Moyen and T. Rubiano.*
https://github.com/ThomasRuby/LQICM_On_C_Toy_Parser

Preprints

- Preprint **Finite semantics of polymorphism, complexity and the power of type fix-points**, with L.T.D. Nguyễn, P. Pistone and L. Tortora de Falco, 2019.
<https://hal.archives-ouvertes.fr/hal-01979009>
- Preprint **Probabilistic complexity classes through semantics**, 2020.
<https://hal.archives-ouvertes.fr/hal-02458358>
- Preprint **An Embellished Account of Agafonov's Proof of Agafonov's Theorem**, with Jakob G. Simonsen, 2020.
<https://hal.archives-ouvertes.fr/hal-02891463>
- Preprint **Agafonov's Theorem for finite and infinite alphabets and probability distributions different from equidistribution**, with Jakob G. Simonsen, 2020.
<https://hal.archives-ouvertes.fr/hal-02993635>
- Preprint **Zeta functions and the (linear) logic of Markov Processes**, 2021.
<https://hal.archives-ouvertes.fr/hal-02458330>
- Preprint **Multiplicative Linear Logic from Logic Programs and Tilings**, with Boris Eng, 2021.
<https://hal.archives-ouvertes.fr/hal-02895111>
- Preprint **A cartesian $(2, 1)$ -category of homotopy polynomial functors in groupoids**, 2021, with E. Finster, M. Lucas, S. Mimram.
- Preprint **PRAMs over integers do not compute maxflow efficiently**, with L. Pellissier, 2021.
<https://hal.archives-ouvertes.fr/hal-01921942>
- Preprint **Lower bounds for algebraic machines, semantically**, with L. Pellissier, 2021.
<https://hal.archives-ouvertes.fr/hal-02487667>
- Preprint **From abstraction and indiscernibility to classification and types: revisiting Hermann Weyl's theory of ideal elements**, with J. B. Joinet, 2021.
<https://hal.archives-ouvertes.fr/hal-03128018>
- In Prep. **Logical Constants from a Computational Point of View**, with A. Naibo, M. Petrolo.
- In Prep. **A Probabilistic Agafonov's Theorem**, with J. G. Simonsen.
- In Prep. **Abstraction, Indiscernibility, and Types**, with J. B. Joinet.
- In Prep. **An Implementation of mwp-Flow Calculus For Complexity Analysis**, with C. Aubert, B. Eng, T. Rubiano, A. Sellak.
- In Prep. **An ontology of computer science**, with A. Naibo.

Unpublished Documents (Available Online)

- 2007 **La Ludique**, *(First Year) Masters Thesis (Philosophy)*.
- 2008 **From Proof Nets to the Hyperfinite Factor**, *Masters Thesis (Mathematical Logic and Foundations of Computer Science)*.
- 2011 **Topologie Non-Commutative. (Notes on Gelfand's theorem)**, *Lecture Notes*.
- 2011 **Théorie des Ensembles (Set Theory)**, *Lecture Notes*.

- 2012 **Logique dans le facteur hyperfini: géométrie de l'interaction et complexité**, *PhD thesis*.
- 2012 **Description of the Thesis: *Logic in the Hyperfinite Factor: Geometry of Interaction and Complexity***, 20-page english summary of my PhD thesis.
- 2014 **Interaction Graphs and Complexity**, *Abstract*.
- 2015 **Memoization for Unary Logic Programming: Characterizing Ptime**, *Research report*, Joint work with Marc Bagnol and Clément Aubert, January 2015.
- 2015 **Towards a Complexity-through-Realizability theory**.
<https://arxiv.org/abs/1502.01257>
- 2016 **From Dynamic to Static Semantics, Quantitatively**.
<https://arxiv.org/abs/1604.05047>
- 2016 **Notes on Graph C*-algebras and Dynamical Systems**, *Lecture Notes*.
- 2018 **Semantics, Entropy and Complexity Lower Bounds**, *with L. Pellissier*.

Editorial work

- Editor **Proceedings Third Joint Workshop on Developments in Implicit Computational complexity and Foundational & Practical Aspects of Resource Analysis**, *Electronic Proceedings in Theoretical Computer Science*, DOI: [10.4204/EPTCS.298](https://doi.org/10.4204/EPTCS.298); ISSN: 2075-2180.

Organisational Activities

- Organization **Organiser of the EPIT 2023 – CALeidoscope Spring/Summer School on Computational Complexity**, *France*, June 2023.
- Organization **Organiser of an international workshop and conference on Geometric Complexity Theory**, *CMI, Chennai, India*, January 17th – 31th, 2022.
- Organization **Organiser of the CALeidoscope 2021 Spring/Summer School on Computational Complexity**, *Paris, France*, 2021.
<https://caleidoscope21.sciencesconf.org>.
- Organization **Organiser of the LIPN-LAGA Operad day 2020**, *online*, November 5th 2020.
<https://operades20.sciencesconf.org>.
- Organization **Organiser of the CALeidoscope 2020 Spring/Summer School on Computational Complexity**, *Paris, France*, 2020.
<https://caleidoscope20.sciencesconf.org>.
- Organization **Organiser of the CALeidoscope 2019 Spring/Summer School on Computational Complexity**, *Paris, France*, 2019.
<https://caleidoscope.sciencesconf.org>.
- Organization **Workshop on Proof Nets and Transcendental Syntax**, *GDRI Linear Logic*, Villetaneuse, France, 2018.
- Organization **Logic group seminar and working groups**, *LIPN*, Villetaneuse, from 2018, ongoing.
- Organization **Seminar on semantics of linear logic**, *IT University, Copenhagen*, 2015-2016.
- Organization **Symposium "The meaning of Axioms"**, *14th CLMPS congress*, 2011.
Speakers: Denis Bonnay, Gilles Dowek, Alexandre Miquel, Alberto Naibo, Mattia Petrolo, Samuel Troncon
- Organization **"Séances de Mathématiques" seminar**, *IML, Marseille*, from 2010 to 2011.
- Organization **Interdisciplinary Working Group for PhD Students**, *Reunions in Paris and Marseille*, in 2010 and 2011.
Funded by: Paris 1 University, Paris 7 University, Aix-Marseille II University, ENS (Paris)

Organization **Working Group on Geometry of Interaction**, *Reunions in Paris and Marseille*, from 2008 to the creation of the ANR project LOGOI.

Invited Doctoral Courses and Seminars

- Course **Paris 1 University**, *June 2009*, 15 hours course, Paris, France.
- Course **Thematic School "Linear Logic, Ludics and Geometry of Interaction"**, *August 27th – September 1st, 2012*, 1h30 course, Paraty, Brazil.
- Course **Summer School on Linear Logic and Geometry of Interaction**, *August 27th-31st, 2013*, 1h30 course, Turin, Italy.
- Course **Oberseminar "Logik und Sprachtheorie"**, *October 29th, 2013*, 4 hours course, Tübingen, Germany.
- Seminar **Semantics of Linear Logic**, *From November 2015 to May 2016*, IT University, Copenhagen, Denmark.

Invited Communications in International Events

- Talk **Summer School on Linear Logic and Geometry of Interaction**, *August 31st, 2013*, Turin, Italy.
- Talk **Workshop "Higher Order Computation: Types, Complexity, Applications"**, *June 16th, 2014*, Institut Henri Poincaré, Paris, France.
- Talk **Workshop "Quantitative Semantics of Logic and Computation"**, *September 2nd, 2016*, Marseille, France.
- Talk **Conference of the ANR-DFG project BeyondLogic**, *May 22nd-26th, 2017*, Cerisy, France.
- Talk **Linear Logic, Thirty Years Later**, *October 25th, 2017*, Rome, Italy.
- Talk **Logical Time and Computational Time**, *November 13th-14th, 2017*, Lyon, France.
- Talk **Cologne-Twente workshop on Graphs and Combinatorial Optimization**, *June 18th-20th 2018*, CNAM, Paris, France.
- Talk **Joint invited talk for the Structures and Deduction (SD 2019) and Trends in Linear Logic (TLLA 2019) international workshops**, *June 29-30th, 2019*, Dortmund, Germany.
- Talk **Logic and Computational Complexity workshop (LCC 2019)**, *July 8th, 2019*, Patras, Greece.
- Talk **Shonan Meeting on Higher Order Complexity and Applications**, *October 7–10th, 2019*, Shonan Village, Japan.

Administrative Roles

- 2021 – **Member of the section 6 of the National Committee for Scientific Research.**
- 2020 – **Member of the Communication committee of the EUR Project Math & Computer Science graduate school.**
<https://eur.univ-paris13.fr/fr>
- 2019 – **Head of the Communication committee at LIPN (correspondant communication du laboratoire).**
- 2018 – **Member of the International Relations committee at LIPN.**
- 2018 – **Person in charge of Communication and Web for the LoVe team at LIPN.**
Member of the Communication committee at LIPN.

Other Research Activities

- Visits **Research Visits**, Datalogisk Institut, University of Copenhagen (08/2014, 10/2017, 11/2017, 01/2018, 03/2018, 10/2019), PUC-Rio, Brazil (08/2018), ERATO MMSD, National Institute of Informatics, Japan (10/2019), RIMS, Kyoto University (10/2019).
- Evaluator **Expert-Evaluator for the European Union**, 2020.
- PC Chair **Chair and Organiser of DICE-FOPARA 2019**, *ETAPS 2019 affiliated event*, Prague, Czech Republic, 2019.
Joint workshop: 10th workshop on Developments in Implicit Computational Complexity, and 6th workshop on Foundational and Practical Aspects of Resource Analysis.
- PC Member **Member of the program/organising committee of the monthly Chocola meetings**, from December 2020.
<http://chocola.ens-lyon.fr>.
- PC Member **Member of the Program Committee for LCC (Logic and Computational Complexity) 2020**.
- PC Member **Member of the Program Committee for Linearity-TLLA (joint workshop: 6th international workshop on Linearity and 4th international workshop on Trends in Linear Logic and Applications) 2020**.
- PC Member **Member of the Program Committee for GaLoP (Games for Logic and Programming Languages) 2019**.
- PC Member **Member of the Program Committee for DICE (Developments in Implicit Computational Complexity) 2016**.
- Peer-Review **Referee for international journals**.
Information and Computation, Mathematical Structures in Computer Science, Logical Methods in Computer Science, ACM Transactions in Computational Logic
- Peer-Review **Referee for international conferences**.
CSL 2013, RTA/TLCA 2014, ACM/IEEE LICS 2015, 2016, FoSSaCS 2017, CALCO 2017
- Reviewer **Reviewer for Mathematical Reviews (American Mathematical Society)**.
- Reviewer **Reviewer for Zentralblatt MATH ([zbMATH](#))**.

Selection of other Invited Communications

- Talk **ANR project LOGOI meeting**, June 14th, 2012, Marseille, France.
- Talk **ANR project RECRE meeting**, October 11th, 2012, Lyon, France.
- Talk **"PPS Seminar"**, January 24th, 2013, PPS, Paris, France.
- Talk **ANR project LOGOI meeting**, February 1st, 2013, Marseille, France.
- Talk **"LAMA Seminar"**, April 4th, 2013, LAMA, Chambéry, France.
- Talk **ANR project LOGOI meeting**, June 10th-11st, 2013, Paris, France.
- Talk **"68nqrt" Seminar**, June 13th, 2013, IRISA/INRIA, Rennes, France.
- Talk **GdR IM meeting**, January 28th, 2014, Paris, France.
- Talk **Séminaire de Mathématiques**, February 25th, 2014, IHÉS, Bures-sur-Yvette, France.
- Talk **"Algorithmics, Complexity and Logic Laboratory" seminar**, March 31st, 2014, LACL, Paris, France.
- Talk **ANR project ELICA meeting**, February 6th, 2015, LIPN, Paris, France.
- Talk **ANR project LOGOI meeting**, March 24th, 2015, IML, Marseille, France.
- Talk **HCC seminar**, November 27, 2015, Department of Computer Science (DIKU), University of Copenhagen, Denmark.
- Talk **"PPS Seminar"**, March 10th, 2016, PPS, Paris, France.

- Talk **CHOCOLA Seminar**, *November 9th, 2017*, ENS Lyon, France.
- Talk **Workshop on Realisability**, *June 12th-13th 2018*, CIRM, Marseille, France.
- Talk **Computer Science Department seminar**, *August 7th, 2018*, PUC-Rio, Rio de Janeiro, Brazil.
- Talk **Colloque "Le même et l'autre : identité, orthogonalité, types"**, *November 5-6th 2018*, Lyon, France.
- Talk **Séminaire Général de Logique**, *March 18th, 2019*, IMJ-PRG, Paris, France.
- Talk **HEPIC seminar (Histoire et Philosophie de l'Informatique et du Calcul)**, *May 15th, 2019*, IHPST, Paris.
- Talk **"LAMA Seminar"**, *October 15th, 2020*, LAMA, Chambéry, France.

Selection of Communications (Workshops and Conferences)

- Talk **"Interaction Graphs: Multiplicatives"**, *GaLoP V (Games for Logic and Programming Languages), ETAPS 2010 Workshop*, March 20th-21st, 2010, Paphos, Cyprus.
- Talk **"Logical Constants from a Computational Point of View"**, *ANR project LOCI meeting*, January 20th-21st, 2011, CIRM, Marseille, France.
- Talk **"Interaction Graphs: Additives"**, *Workshop on Linear Logic (Geometry of Interaction, Traced Monoidal Categories and Implicit Complexity)*, November 7th-11th, 2011, Kyoto, Japan.
- Talk **"Interaction Graphs: Additives"**, *Logic and Interaction 2012*, January 30th – March 2nd, 2012, CIRM, Marseille, France.
- Talk **"Interaction Graphs: Additives"**, *LICS 2012 (Logic In Computer Science)*, June 25th-28th, 2012, Dubrovnik, Croatia.
- Talk **"Interaction Graphs: Additives"**, *GaLoP VII (Games for Logic and Programming languages)*, June 29th, 2012, Dubrovnik, Croatia.
- Talk **"Espace Logarithmique et Permutations"**, *GEOCAL Meeting*, February 15th, 2013, Lyon, France.
- Talk **"Logarithmic Space and Permutations"**, *DICE 2013 (Developments in Implicit Computational Complexity)*, March 17th, 2013, Rome, Italy.
- Talk **"Interaction Graphs and Complexity"**, *GEOCAL Meeting*, March 25th, 2014, Bordeaux, France.
- Talk **"Towards a Complexity-through-Realizability Theory"**, *FOPARA–DICE 2015*, April 12th, 2015, London, UK.
- Talk **"Measurable Preorders and Complexity"**, *TACL 2015 (Topology, Algebra and Categories in Logic)*, June 26th, 2015, Ischia, Italy.
- Talk **"Interaction Graphs and Quantitative Semantics"**, *GALOP 2016 (Games for Logic and Programming Languages), ETAPS 2016 Workshop*, April 2nd, 2016, Eindhoven, Netherlands.
- Talk **"Measurable Preorders and Complexity"**, *FOSSACS 2016 (Foundations of Software Science and Computation Structures)*, April 6th, 2016, Eindhoven, Netherlands.
- Talk **"Interaction Graphs: Full Linear Logic"**, *LICS 2016 (IEEE/ACM Logic in Computer Science)*, July 6th, 2016, New York, USA.
- Talk **"Computational Complexity, between Algebra and Geometry"**, *GEOCAL-LAC Meeting*, November 29th, 2016, Paris, France.
- Talk **"Entropy and Complexity Lower Bounds"**, *Developments in Implicit Computational Complexity (DICE) 2018*, April 14th-15th, 2018, Thessaloniki, Greece.

Talk **"Measurable Dynamics, Logic and Computational Complexity"**, *Conference on Mathematical Logic, Satellite event of the ICM 2018*, August 10th-11th, 2018, Niterói, Brazil.

Talk **"PRAMs over integers do not compute maxflow efficiently"**, *Joint international workshop on Developments in Implicit Computational Complexity and Foundations and Practice of Resource Analysis (DICE-FOPARA) 2019*, April 6-7th, 2019, Prague, Czech Republic.

Teaching Experience

- 2020-2021 **Lectures in Mathematics / Computer Science**, *Université Paris 13*, 51 hours.
Courses: Category Theory (third year students in mathematics, first semester), Logic (first year students in computer science, second semester).
- 2020-2021 **Exercise Sessions in Computer Science**, *Université Paris 13*, 23 hours.
Courses: Logic (first year students in a dual degree mathematics and computer science, second semester).
- 2019-2020 **Exercise Sessions in Computer Science**, *Université de Nantes*, 22 hours.
Courses: Fundamentals of Computer Science (third year students, computer science diploma, second semester).
- 2018-2019 **Lectures in Mathematics / Computer Science**, *Université Paris 13*, 54 hours.
Courses: Category Theory (third year students, dual mathematics and computer science diploma, first semester).
- 2017-2018 **Lectures in Mathematics / Computer Science**, *Université Paris 13*, 48 hours.
Courses: Category Theory (third year students, dual mathematics and computer science diploma, first semester).
- 2017-2018 **Exercise Sessions and Practice Sessions in Computer Science (languages: C)**, *Université Paris 13*, 60 hours.
Courses: Logic, Algorithmics (first year students, second semester).
- 2012-2013 **Exercise Sessions and Practice Sessions in Computer Science (languages: Python)**, *Université de Savoie*, 40 hours.
Courses: Algorithmic and Programming (first year students, second semester).
- 2011-2012 **Exercise Sessions and Practice Sessions in Computer Science (languages: Python, Ada and C)**, *Université de Savoie*, 176 hours.
Courses: Introduction to Algorithmic and Programming (first year students, first semester), Algorithmic and Programming (first year students, second semester), Imperative Programming (second year students, first semester), Operating Systems (third year students, first semester).
- 2008-2011 **Lectures in Mathematics (third year students)**, *Université de la Méditerranée*.
Courses: Introduction to Logic. (36 hours of teaching each year)

Other Teaching Activities

- 2015 **Participation to the "Fête de la science" in Paris.**
This is a national yearly event for the popularisation and promotion of science, organised by the French ministry for higher education and research.
- 2013 **Qualified for holding a *Maitre de Conférence* position both in mathematics and in computer science**, *Delivered by the French ministry of higher education and research*, 13/02/2013, Qualification Number: 13225242836.
- 2012-2013 **Co-organization of a "Maths à modeler" course**, *Université de Savoie*.
This is an initiation to research course for elementary school pupils (around ten 1h30 sessions).
- 2008-2011 **Participation to five "Hippocampe" courses**, *Université de la Méditerranée*.
These are three-days courses initiating high-school and middle-school students to research.

Carrier Breaks

21 Weeks Paternity Leave (2 weeks) from May 6th 2016 to May 23rd 2016, and Parental Leave (19 weeks) from October 24th, 2016 to March 5th, 2017.