Ludovic Levy Patey

Doctor in Computer Science

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Academic Curriculum

2017 – now	**CNRS Researcher ("Chargé de Recherche")**, *France*
2016 – 2017	**Postdoc ("Morrey Visiting Assistant Professor")**, *University of California, Berkeley*
2013 – 2016	**PhD on "The reverse mathematics of Ramsey-type theorems"**, *Université Paris Diderot (Paris VII)* Advised by Laurent Bienvenu and Hugo Herbelin
2012 – 2013	**Mathematical Logic and Foundations of Computer Science**, *Université Paris Diderot (Paris VII)*, Master degree, Summa cum laude
2010 – 2012	**Parisian Master of Research in Computer Science**, *École normale supérieure*, Paris, Master degree. Summa cum laude
2009 – 2010	**Licence in Computer Science**, *École normale supérieure*, Paris, Magna cum laude
2007 – 2009	**DEUG in Mathematics**, *Université Pierre et Marie Curie (Paris VI)*
2006 – 2009	**Computer engineering studies**, *SUPINFO - The International Institute of Information Technology*, Paris

Research Interests

I am interested in the constructive content of mathematical reasoning. I mainly work within the framework of reverse mathematics under a computational perspective. My research primarily focuses on the reverse mathematics of combinatorial theorems, and in particular on Ramsey's theorem and its consequences.

Experiences

May 2012 – Aug. 2013	**Intern**, *Laboratoire Preuves, Programmes et Systèmes*, Paris, France Type theory and reverse mathematics.
Mar. 2012 – Aug. 2012	**Intern**, *Laboratoire d'Informatique Algorithmique: Fondements et Applications*, Paris, France Definability of the Turing jump.
Oct. 2011 – Feb. 2012	**Intern**, *ROSAEC Center*, Seoul, South Korea Verification framework of multi-staged programs. Also between Mar. 2011 and Aug. 2011
Jun. 2010 – Aug. 2010	**Intern**, *Institut Fourier*, Grenoble, France Extensive study of the computational complexity of Eternity II and its variants.
Aug. 2009 – Oct. 2009	**Casual labor**, *Institut National de Recherche en Agronomie*, Jouy-en-Josas, France Development of a web interface favouring search in semantic databases.
Dec. 2009 – Jun. 2009	**Intern**, *TIMC-IMAG laboratory*, Grenoble, France Research and implementation of algorithms to search for partial subgraphs isomorphisms.
Nov. 2007 – Jun. 2008	**Computer engineer**, *CLASIS SARL*, Paris, France, Permanent contract Development of a web application of direct marketing.

Teaching

Fall 2023	**Teaching**, *Computability theory and applications*, École Normale Supérieure de Lyon
	This M2 course covers a good part of classical computability theory (Church-Turing thesis, Turing degrees, Π_1^0 classes, arithmetical hierarchy, priority methods, forcing...)
Spring 2022	**Teaching**, *Computability theory - outils classiques*, Université Paris Diderot (Paris VII)
	Course co-taught with Julien Cervelle. It covers advances topics in classical computability theory, and some basics of Kolmogorov complexity and algorithmic randomness.
Fall 2021	**Teaching**, *Computability theory and applications*, École Normale Supérieure de Lyon
	This M2 course covers a good part of classical computability theory (Church-Turing thesis, Turing degrees, Π_1^0 classes, arithmetical hierarchy, priority methods, forcing...)
Spring 2019	**Lab sessions**, *Algorithms and Competitive Programming*, École Polytechnique, Saclay
	Course taught by Adrian Kosowski. The aim of this class is to train students to programming contests.
Spring 2017	**Teaching**, *Incompleteness and Undecidability*, University of California, Berkeley
	This class covers Gödel's incompleteness theorems, Turing machines, Rice theorem, recursively enumerable sets, among others.
Fall 2016	**Teaching**, *Introduction to Abstract Algebra*, University of California, Berkeley
	This class covers group theory, commutative rings, ideals, fields, fields extensions, among others.
Fall 2016	**Teaching**, *Introduction to Analysis*, University of California, Berkeley
	This class covers sequences, limits, continuous functions, uniform convergence, infinite series and the Riemann integral, among others.
2014 – 2015	**Lab sessions**, *Internet et Outils IO2*, Université Paris Diderot (Paris VII)
	Course taught by Christophe Prieur. This class covers HTML, CSS, PHP and Javascript.
2013 – 2014	**Lab sessions**, *Language C*, Université Paris Diderot (Paris VII)
	Course taught by Jean-Marie Rifflet. This class covers basic structures, pointers, libraries and related tools.
2013 – 2014	**Lab sessions**, *Initiation à la programmation IF1*, Université Paris Diderot (Paris VII)
	Course taught by Matthieu Picantin. The aim of this class is to introduce the basics of procedural programming using Java.

Publications

Books

[BP21] **Calculabilité : Aléatoire, Mathématiques à rebours et Hypercalculabilité**
Benoit Monin and Ludovic Patey —*Calvage et Mounet*, (2022) ISBN 978-2-916352-96-1.

Journal papers

[HPY] **Conservation of Ramsey's theorem for pairs and well-foundedness**
Quentin Le Houérou, Ludovic Levy Patey and Keita Yokoyama. —*Transactions of the AMS*, to appear.

[HP] **Π_4^0 conservation of the Ordered Variable Word theorem**
Quentin Le Houérou and Ludovic Levy Patey. —*Journal of Symbolic Logic*, to appear.

[BLP24] **The reverse mathematics of Carlson's theorem for located words**
Tristan Bompard, Lu Liu and Ludovic Levy Patey. —*Journal of Combinatorics*, to appear.

[CGP22] **The reverse mathematics of CAC for trees**
Julien Cervelle, William Gaudelier et Ludovic Patey. —*Journal of Symbolic Logic*, 89 (2024), no.3, pp. 1189–1211.

[AMLP22] **Carlson-Simpson's lemma and applications in reverse mathematics**
Paul-Elliot Anglès d'Auriac, Bastien Mignoty, Lu Liu and Ludovic Patey. —*Annals of Pure and Applied Logic*, 174 (2023), no.9, pp. 103287.

[MP22] **Partition genericity and pigeonhole basis theorems**
Benoit Monin and Ludovic Patey. —*Journal of Symbolic Logic*, 89 (2024), no.2, pp. 829 - 857.

[LP22] **The reverse mathematics of the Thin Set and Erdos-Moser theorems**
Lu Liu and Ludovic Patey —*Journal of Symbolic Logic*, 87 (2022), no.1, pp. 313–346.

[MP21b]   **SRT22 does not imply RT22 in omega-models**
Benoit Monin and Ludovic Patey —*Advances in Mathematics*, 389 (2021), pp. 107903, 32.

[ACDMP]   **Milliken's tree theorem and its applications: a computability-theoretic perspective**
Paul-Elliot Anglès d'Auriac, Peter Cholak, Damir Dzhafarov, Benoit Monin and Ludovic Patey
—*Memoirs of the AMS*, 293 (2024), no.1457, pp. vi+118.

[GTPT]   **Computing sets from all infinite subsets**
Noam Greenberg, Matthew Harrison-Trainor, Ludovic Patey and Dan Turetsky —*Transactions of the AMS*, 374 (2021), no.11, pp. 8131–8160.

[Pat21]   **Ramsey-like theorems and moduli of computation**
Ludovic Patey —*Journal of Symbolic Logic*, 87 (2022), no.1, pp. 72–108.

[DGHPT]   **Relationships between computability-theoretic properties of problems**
Rod Downey, Noam Greenberg, Matthew Harrison-Trainor, Ludovic Patey and Daniel Turetsky
—*Journal of Symbolic Logic*, 87 (2022), no.1, pp. 47–71.

[MP21a]   **The weakness of the pigeonhole principle under hyperarithmetical reductions**
Benoit Monin and Ludovic Patey —*Journal of Mathematical Logic*, 21 (2021), no.3, pp. 2150013, 41.

[DP21]   **COH, SRT22, and multiple functionals**
Damir Dzhafarov and Ludovic Patey —*Computability*, 10 (2021), no. 2, 111–121.

[CDHP20]   **Some results concerning the SRT22 vs COH problem**
Peter Cholak, Damir Dzhafarov, Denis Hirschfeldt and Ludovic Patey —*Computability*, 9 (2020), no. 3-4, 193–217.

[CP20]   **Thin set theorems and cone avoidance**
Peter Cholak and Ludovic Patey —*Transactions of the American Mathematical Society*, 373 (2020), no. 4, 2743–2773.

[DGHPP]   **Ramsey's theorem and products in the Weihrauch degrees**
Damir Dzhafarov, Jun Le Goh, Denis Hirschfeldt, Ludovic Patey and Arno Pauly —*Computability*, 9 (2020), no. 2, 85–110.

[MP19]   **Pigeons do not jump high**
Benoit Monin and Ludovic Patey —*Advances in Mathematics*, 352, (2019), 1066–1095.

[CIPST]   **The Rado path decomposition theorem**
Peter Cholak, Gregory Igusa, Ludovic Patey, Mariya Soskova and Dan Turetsky —*Israel Journal of Mathematics*, Israel J. Math. 234 (2019), no. 1, 179–208.

[LPM]   **A computable analysis of variable words theorems**
Lu Liu, Ludovic Patey and Benoit Monin. —*Proceedings of the AMS*, 147 (2019), no. 2, 823–834.

[PY]   **The proof-theoretic strength of Ramsey's theorem for pairs and two colors**
Ludovic Patey and Keita Yokoyama. —*Advances in Mathematics*, 330 (2018), 1034–1070.

[DP16]   **Coloring trees in reverse mathematics**
Damir Dzhafarov and Ludovic Patey —*Advances in Mathematics*, 318 (2017), 497–514.

[Pat16a]   **Dominating the Erdős-Moser theorem in reverse mathematics**
Ludovic Patey. —*Annals of Pure and Applied Logic*, 168 (2017), no. 6, 1172–1209.

[BPS15]   **On the logical strengths of partial solutions to mathematical problems**
Laurent Bienvenu, Ludovic Patey and Paul Shafer.
—*Transactions of the London Mathematical Society*, 4 (2017), no. 1, 30–71.

[Pat16b]   **The reverse mathematics of non-decreasing subsequences**
Ludovic Patey —*Archive for Mathematical Logic*, 56 (2017), no. 5-6, 491–506.

[Pat16c]   **Partial orders and immunity in reverse mathematics**
Ludovic Patey —*Computability*, 7 (2018) no. 4, 323–339.

[FP15]   **Coloring the rationals in reverse mathematics**
Emanuele Frittaion and Ludovic Patey —*Computability*, 6 (2017), no. 4, 319–331.

[MP16]   **Pi01 encodability and omniscient reductions**
Benoit Monin and Ludovic Patey —*Notre Dame Journal of Formal Logic*, 60 (2019), no. 1, 1–12.

[DLSW] **Ramsey's theorem for singletons and strong computable reducibility**
Damir Dzhafarov, Ludovic Patey, Reed Solomon and Linda Brown Westrick
—*Proceedings of the American Mathematical Society*, 145 (2017), no. 3, 1343–1355.

[Pat15j] **The weakness of being cohesive, thin or free in reverse mathematics**
Ludovic Patey. —*Israel Journal of Mathematics*, 216 (2016), no. 2, 905–955.

[BP] **Diagonally non-computable functions and fireworks**
Laurent Bienvenu and Ludovic Patey. —*Information and Computation*, 253 (2017), part 1, 64–77.

[Pat15b] **Controlling iterated jumps of solutions to combinatorial problems**
Ludovic Patey. —*Computability*, 6 (2017), no. 1, 47–78.

[Pat15i] **The strength of the tree theorem for pairs in reverse mathematics**
Ludovic Patey. —*Journal of Symbolic Logic*, 81 (2016), no. 4, 1481–1499.

[Pat15k] **Iterative forcing and hyperimmunity in reverse mathematics**
Ludovic Patey. —*Computability*, 6 (2017), no. 3, 209–221.

[Pat15e] **Open questions about Ramsey-type statements in reverse mathematics**
Ludovic Patey. —*Bulletin of Symbolic Logic*, 22 (2016), no. 2, 151–169.

[Pat15c] **Degrees bounding principles and universal instances in reverse mathematics**
Ludovic Patey. —*Annals of Pure and Applied Logic*, 166 (2015), no. 11, 1165–1185.

[Pat15f] **Ramsey-type graph coloring and diagonal non-computability**
Ludovic Patey. —*Archive for Mathematical Logic*, 54 (2015), no. 7-8, 899–914.

[Pat15h] **The complexity of satisfaction problems in reverse mathematics**
Ludovic Patey. —*Computability*, 4 (2015), no. 1, 69–84.

Conference papers

[Pat16] **Partial Orders and Immunity in Reverse Mathematics**
Ludovic Patey. —*Lecture Notes in Computer Science, Computability in Europe*, 353–363 (2016)

[Pat15d] **Iterative Forcing and Hyperimmunity in Reverse Mathematics**
Ludovic Patey. —*Lecture Notes in Computer Science, Computability in Europe*, 291–301 (2015)

[Pat14] **The Complexity of Satisfaction Problems in Reverse Mathematics**
Ludovic Patey. —*Lecture Notes in Computer Science, Computability in Europe*, 333–342 (2014)

Submitted papers

[CGLP] **Ramsey-like theorems for the Schreier barrier**
Lorenzo Carlucci, Oriola Gjetaj, Quentin Le Houérou and Ludovic Levy Patey. —Submitted

[CGP] **Cross-constraint basis theorems and products of partitions**
Julien Cervelle, William Gaudelier and Ludovic Levy Patey. —Submitted

[HPM] **The reverse mathematics of pigeonhole hierarchies**
Quentin Le Houérou, Ludovic Levy Patey and Ahmed Mimouni. —Submitted

[HPY1] **Π_4^0 conservation of Ramsey's theorem for pairs**
Quentin Le Houérou, Ludovic Levy Patey and Keita Yokoyama. —Submitted

[LM23] **The weakness of the Erdos-Moser theorem under arithmetic reductions**
Ludovic Levy Patey and Ahmed Mimouni. —Submitted

Drafts

[Pat15a] **Combinatorial weaknesses of ramseyan principles**
Ludovic Patey. —In preparation.

Awards

2017 **Thiessé de Rosemont/Demassieux prize**, *Chancellerie des Universités de Paris*

2016 **Sacks prize**, *Association for Symbolic Logic*

2016 **Accessit to the Gilles Kahn thesis prize**, *Société Informatique de France*

2015 **Best student paper award**, *Computability in Europe*, Bucharest, Romania
Paper: Iterative forcing and hyperimmunity in reverse mathematics

2014 **Best student paper award**, *Computability in Europe*, Budapest, Hungary
Paper: The complexity of satisfaction problems in reverse mathematics

Invitations

Invited talks

Jul. 2023 **Tutorial**, *Computability in Europe*, Batumi, Georgia
Talk: Ramsey theory computes through sparsity

May. 2022 **Plenary speaker**, *Leeds Computability Days*, Leeds, UK, Attended online
Talk:Partition genericity and pigeonhole basis theorems

Jun. 2021 **Plenary speaker**, *Third Workshop on Digitalization and Computable Models*, Online
Talk: Classification of Ramsey-like theorems.

Feb. 2021 **Special session**, *SouthEastern Logic Symposium*, Online
Talk: Classifications of Ramsey-like theorems.

Feb. 2021 **Seminar**, *Online Logic Seminar*, Online
Talk: Canonical notions of forcing in computability theory.

May 2020 **Plenary speaker**, *NSF-FRG meeting on Reverse Mathematics of combinatorial principles [Cancelled]*, Penn State University, PA, USA

Apr. 2020 **Tutorial**, *Workshop on Computability, Algebraic structures, and Randomness [Cancelled]*, Kyoto, Japan

Dec. 2019 **Special session**, *Canadian Mathematical Society Winter Meeting*, Toronto, Canada
Talk: SRT22 does not imply RT22 in omega-models

May 2019 **Special session**, *ASL Annual North American Meeting*, New York, NY, USA
Talk: Ramsey-like theorems and moduli of computation

Mar. 2019 **Plenary speaker**, *Third Workshop on Mathematical Logic and its Applications*, Nancy, France
Talk: Ramsey-like theorems and moduli of computation

Aug. 2018 **Plenary speaker**, *Computability and Complexity in Analysis*, Munich, Germany
Talk: Never underestimate pigeons

Jul. 2018 **Plenary speaker**, *Logic Colloquium*, Udine, Italy
Talk: Ramsey's theorem under a computable perspective

Sep. 2017 **Plenary speaker**, *Computability Theory and Foundations of Mathematics*, Singapore
Talk: Can we fish with Mathias forcing?

Jul. 2017 **Plenary speaker**, *Computability, Complexity and Randomness*, Mysore, India
Talk: The weakness of Ramsey's theorem under omniscient reductions

Jun. 2017 **Plenary speaker**, *Computability in Europe*, Turku, Finland
Talk: Ramsey's theorem under a computable perspective

Mar. 2017 **Special session**, *Southeastern Logic Symposium*, Gainesville, FL, USA
Talk: The strength of the thin set theorems

Jan. 2017 **Plenary speaker**, *Computability and Complexity Symposium*, Wellington, New-Zealand
Talk: The reverse mathematics of non-decreasing sequences

Oct. 2016 **Plenary speaker**, *Midwest Computability Seminar,
Special Meeting in Honor of Carl Jockusch's 75th Birthday*, Chicago, IL, USA
Talk: Coloring trees and rationals in reverse mathematics

Jul. 2016 **Plenary speaker**, *Workshop on Computability Theory*, Ghent, Belgium
Talk: How randomly rainbows appear!

May. 2016 **Plenary speaker**, *The Foundational Impact of Recursion Theory,
in honor of Steve Simpson's 70th birthday*, Storrs, Connecticut
Talk: The weakness of Ramsey's theorem under omniscient reductions

Jun. 2015 **Special session**, *Computability in Europe*, Bucharest, Romania
Talk: How colorings reduce when colors increase

Jul. 2014	**Plenary speaker**, *Workshop on Computability Theory*, Prague, Czech Republic Talk: On universal instances of principles in reverse mathematics

Invited participations

Oct. 2023	**Workshop**, *Recursion theory and its applications*, Hangzhou, China, Attended online
Apr. 2021	**Seminar**, *Computability Theory*, Oberwolfach, Germany, Attended online
Sep. 2019	**Workshop**, *Reverse Mathematics of Combinatorial Principles*, Oaxaca, Mexico Talk: SRT22 does not imply COH in omega-models
Sep. 2018	**Seminar**, *Measuring the Complexity of Computational Content*, Dagstuhl, Germany Talk: RT22 compared to the product of SRT22 and COH
Jul. 2018	**Seminar**, *Ramsey Theory in Logic, Combinatorics and Complexity*, Bertinoro, Italy
Jan. 2018	**Seminar**, *Computability Theory*, Oberwolfach, Germany Talk: Pigeons do not jump high
Sep. 2017	**Conference**, *Aspects of Computation*, Singapore
Jan. 2016	**Conference**, *New Challenges in Reverse Mathematics*, Singapore, Singapore Talk: Ramsey's theorem and compactness
Sep. 2015	**Seminar**, *Measuring the Complexity of Computational Content*, Dagstuhl, Germany Talk: Controlling iterated jumps of Ramsey-type theorems

Popular science press

May 2016	**Quanta Magazine**, *Mathematicians Bridge Finite-Infinite Divide*, by Natalie Wolchover `https://www.quantamagazine.org/20160524-mathematicians-bridge-finite-infinite-divide/`

Supervision

2022	**PhD**, *Ahmed Mimouni*, Arithmetic properties of combinatorial theorems Co-advised with Julien Cervelle and Laura Fontanella
2022	**M2 Intership**, *Tristan Bompard*, Computable analysis of Carlson's theorem
2022	**M2 Intership**, *Bastien Mignoty*, Reverse metheamtics of the Ascending Descending Sequence theorem
2021	**PhD**, *William Gaudelier*, Computable analysis of Ramsey-type theorems Co-advised with Benoît Monin and Julien Cervelle
2021	**M2 Internship**, *William Gaudelier*, Computable analysis of Ramsey-type theorems Co-advised and Benoît Monin
2020	**L3 Internship**, *Quentin Le Houérou*, Computable analysis of the Rainbow Ramsey theorem Co-advised with Paul-Elliot Anglès d'Auriac
2019	**Postdoc**, *Paul-Elliot Anglès d'Auriac*, Hindman's theorem and variable words

Grants

Feb. 2020	**Grant**, *Research in Paris*, with Peter Cholak at the Institut Henri-Poincaré, Paris, France Project: Computability-theoretic aspects of thin set theorem
Jan. 2020 – Dec. 2022	**Grant**, *International Emerging Action*, France-Japan project with Keita Yokoyama Project: Frontier topics in computability theory
Oct. 2019 – Sept. 2022	**Grant**, *ANR Jeunes Chercheurs* Project: Computational Aspects of Combinatorial Theorems
Jan. 2018	**Grant**, *Research in pairs*, with Peter Cholak, Damir Dzhafarov and Denis Hirschfeldt, Oberwolfach, Germany Project: The computational strength of versions of Ramsey's Theorem
Oct. 2016	**Grant**, *Research in pairs*, with Damir Dzhafarov and Denis Hirschfeldt, Oberwolfach, Germany Project: The computational strength of versions of Ramsey's Theorem

International conferences and seminars

July 2023 **Computability in Europe**, *Conference*, Batumi, Georgia

Past events

June 2022 **Logic Colloquium**, *Conference*, Reykjavik, Iceland

June 2022 **Workshop on Reverse Mathematics and its Philosophy**, *Conference*, Paris, France

June 2022 **International conference on computability, complexity and randomness**, *Conference*, Cambridge, UK

May 2022 **Leeds Computability Day**, *Workshop*, Leeds, UK, Attended online

Mar. 2022 **New directions in computability theory**, *Conference*, Luminy, France

June 2021 **Third Workshop on Digitalization and Computable Models**, *Workshop*, Online

Apr. 2021 **Computability Theory**, *Conference*, Oberwolfach, Germany, Attended online

Feb. 2021 **SouthEastern Logic Symposium**, *Conference*, Online

May 2020 **NSF-FRG meeting on Reverse Mathematics of combinatorial principles [Cancelled]**, *Conference*, Penn State University, PA, USA

Mar. 2020 **ASL North American Annual Meeting [Cancelled]**, *Conference*, Irvine, CA, USA

Jun. 2020 **Leeds Computability Days**, *Workshop [Cancelled]*, Leeds, UK

Dec. 2019 **Canadian Mathematical Society Winter Meeting**, *Conference*, Toronto, Canada

Sep. 2019 **Reverse Mathematics of Combinatorial Principles**, *Workshop*, Oaxaca, Mexico

May 2019 **ASL Annual North American Meeting**, *Conference*, New York, NY, USA

Mar. 2019 **Third Workshop on Mathematical Logic and its Applications**, *Workshop*, Nancy, France

Sep. 2018 **Measuring the Complexity of Computational Content**, *Seminar*, Dagstuhl, Germany

Aug. 2018 **Computability and Complexity in Analysis**, *Conference*, Munich, Germany

Jul. 2018 **Logic Colloquium**, *Conference*, Udine, Italy

Jul. 2018 **Ramsey Theory in Logic, Combinatorics and Complexity**, *Seminar*, Bertinoro, Italy

Jul. 2018 **Workshop on Ramsey Theory and Computability**, *Workshop*, Rome, Italy

Jan. 2018 **Computability Theory**, *Seminar*, Oberwolfach, Germany

Sep. 2017 **Computability Theory and Foundations of Mathematics**, *Workshop*, Singapore

Jul. 2017 **Computability, Complexity and Randomness**, *Conference*, Mysore, India

Jun. 2017 **Computability in Europe**, *Conference*, Turku, Finland

Mar. 2017 **Southeastern Logic Symposium**, *Conference*, Gainesville, FL, USA

Jan. 2017 **Computability and Complexity Symposium**, *Conference*, Wellington, New-Zealand

Oct. 2016 **Midwest Computability Seminar, Special Meeting in Honor of Carl Jockusch's 75th Birthday**, *Seminar*, Chicago, IL, USA

Jul. 2016 **Workshop on Computability Theory**, *Workshop*, Ghent, Belgium

Jun. 2016 **Computability in Europe**, *Conference*, Paris, France

Jun. 2016 **Computability, Randomness and Applications**, *Conference*, Marseille, France

May. 2016 **Annual North American Meeting**, *Conference*, Storrs, Connecticut

May. 2016 **The Foundational Impact of Recursion Theory, in honor of Steve Simpson's 70th birthday**, *Workshop*, Storrs, Connecticut

Jan. 2016 **New Challenges in Reverse Mathematics**, *Conference*, Singapore, Singapore

Sep. 2015 **Measuring the Complexity of Computational Content**, *Seminar*, Dagstuhl, Germany

Jun. 2015 **Computability in Europe**, *Conference*, Bucarest, Romania

Jun. 2015 **Computability, Complexity and Randomness**, *Conference*, Heidelberg, Germany

Jun. 2015 **Varieties of Algorithmic Information**, *Conference*, Heidelberg, Germany

Jul. 2014	**Workshop on Computability Theory**, *Workshop*, Prague, Czech Republic
Jul. 2014	**Computability in Europe**, *Conference*, Budapest, Hungary
May. 2014	**Types**, *Conference*, Paris, France
Sep. 2013	**Computability, Complexity and Randomness**, *Conference*, Moscow, Russia
Jul. 2013	**Logic Colloquium**, *Conference*, Evora, Portugal
Jul. 2013	**Computability in Europe**, *Conference*, Milan, Italy
Mar. 2013	**Reverse Mathematics and Type Theory**, *Workshop*, Seoul, South Korea
Jun. 2012	**Computability in Europe**, *Conference*, Cambridge, United Kingdom

Committees and services

Referee	**Journals**: Archive for Mathematical Logic, Computability, Journal of Symbolic Logic, Mathematical Structures in Computer Science, Selecta Mathematica. **Conferences**: Computability in Europe 2014, 2017, 2018, 2019, Symposium on Theoretical Aspects of Computer Science 2017, 2018, Symposium on Logic in Computer Science 2017, 2018. **Databases**: Mathematical Reviews 2015 – 2016
March 2022	**Organizer**, *New directions in computability theory*, CIRM, Luminy, France
June 2020	**Organizer**, *GT Calculabilités days from the GDR-IM [Cancelled]*, Lyon, France
May 2020	**Recruitment committee**, *Job of* Maître de conférences *at the LACL and a the MMI department of the IUT of Sénart Fontainebleau*, Créteil, France
July 2018	**Program committee**, *Workshop on Ramsey Theory and Computability*, Rome, Italy

Languages

French	Mother tongue
English	Fluent (110/120 at TOEFL)
German	Advanced

Computer Skills

Languages	PHP, Java, Scala, C, C++, Ocaml, C#	Web	HTML5, CSS, Javascript
Platforms	Ubuntu, Windows, Mac OS	DB	MySQL, Oracle, CouchDB
Tools	LaTeX, Git, Subversion, Coq		