CURRICULUM VITAE
ANTONIO MONTALBÁN

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Research interest: Mathematical Logic: Computability theory.

EDUCATION AND EMPLOYMENT

- Licenciatura (B.S.) en Matemáticas. Universidad de la República (UdelaR), Montevideo, Uruguay 2000.
- M.S. in Mathematics. Cornell University, 2002.
- M.S. in Computer Sciences. Cornell University, January 2005.
- **Ph.D. in Mathematics.** Cornell University, August 2005
  Thesis adviser: Richard A. Shore. Thesis title: *Beyond the Arithmetic.*

2005-2006. L. E. Dickson Instructor at the University of Chicago.
2006-2007. Postdoctoral position at the University of Victoria Wellington. New Zealand.
2007-2011. Assistant Professor at the University of Chicago.
2011-2012. Associate Professor at the University of Chicago.
2012-2017. Associate Professor at the University of California, Berkeley.
2017- — **Professor at the University of California, Berkeley**.

MENTORING

Ph.D. students
- Chris Conidis, 2009 (secondary advisor).
- Damir Dzhafarov, 2011 (secondary advisor).
- Noah Schweber, 2016.
- Matthew Harrison-Trainor, 2017. (Sacks Prize)
- James Walsh, 2020 (Sacks Prize)

Postdocs
- Asher Kach, 2011-2012.
- Alexander Melnikov, 2014-2015.
- Takayuki Kihara, 2015- 2017.
- Dino Rossegger, 2021-2023.

RECOGNITION

Awards (post Ph.D.)
- **Sacks Prize 2005**, given to the best Ph.D. thesis in logic by the Association of Symbolic Logic.
- **AMS Centennial Fellowship 2009**, given to young researchers by the American Mathematical Society.
- **Packard Fellowship 2010**. Given to 17 scientists, and, in average, to one mathematician every year.
- Invited Special Session **Speaker at ICM**, International Congress of Mathematicians, **Soul**, Korea, Aug 2014.

Grants (as Principal Investigator)
- **NSF Grant** June 2006-May 2009. DMS-0600824.
- **NSF Grant** Sept 2009-Aug 2012. DMS-0901169.
- **NSF Grant** July 2014-June 2017. DMS-1363310.
- **NSF Grant** July 2017-June 2020. DMS-1700361.
- **Simons Fellows in Mathematics** July 2018-December 2019.
- **NSF Grant** July 2020-June 2023. DMS-1954062

Other activities

- Editor for the **Notices of the AMS**. August 2019-current
- Editor for the **Perspectives in Mathematical Logic Series**. January 2012-current
- Editor for the **Transactions and Memoirs of the AMS**. February 2012-2016.
- ASL: Prizes committee 2015-current. Council of the ASL 2011-2014. Nominating committee 2016-2019.
- Referee and reviewer for various journals. Reviewer for NSF. 2006-current
- Write a column for the quarterly magazine *Uruguay Ciencia* 2009-2012.

Meetings organized or co-organized

- Birthday conference for Richard Shore on January 2007.
- Special session on Computable Structures at the ASL annual meeting in Irvine, CA on May 2008.
- Midwest computability meeting, that meets 3 times a year in Chicago, IL.
- Workshop in Computability Theory, as a satellite for the LC10 in Paris, France, July 2010.
- Workshop in Computability Theory, as a satellite for the LC11 in Barcelona, Spain, July 2011.
- Workshop in Reverse Mathematics, Chicago, IL, September 2011.
- Oberwolfach Seminar in Proof Theory, Germany, October 2011.
- Special session in Algebraic Structures, Asian Logic Colloquium, Wellington, New Zealand, December 2011.
- Special session in Logic at the Latin-american Mathematics Meeting, Cordona, Argentina, August 2012.
- Program Committee, Symposium of Logical Foundations of Computer Science, San Diego, CA, January 2013.
- Special session in Computable structures at the Annual ASL meeting, Waterloo, Canada, May 2013.
- CCR Semester in Computability Theory, Buenos Aires, Argentina, January-June 2013.
- Workshop in Computable Model Theory at BIRS, Banff, Canada, November 2013.
- ASL Annual Meeting, Program committee. Urbana, IL, April 2015.
- Vaught's conjecture conference. Berkeley, CA, June 2015.
- ASL Annual Meeting, Program committee. Storrs, CT, May 2016.
- Workshop in Computability Theory. Ghent, Belgium, July 2016.
- Special Session in Proof Theory and Reverse Mathematics, Logic Colloquium, Leeds, UK, August 2016.
- XVII Simposio Latinoamericano de Lógica Matemtica, Program committee. Puebla, Mexico, July 2017.
- Logic Colloquium 18, Program committee, Udine, Italy, July 2018
- Computability Complexity and Randomness, Program committee. Santiago de Chile, Chile, December 2018
- Special Session, Canadian Winter Meeting, Toronto, Canada, December 2019
- Workshop in Computability Theory, Leeds, England, July 2019;
- XVIII Simposio Latinoamericano de Lógica Matemtica, Program committee, Concepción, Chile, Dec. 2019;
- Special session on Computable Structures at the ASL annual meeting in Ithaca, NY on May 2022.
- XIX Simposio Latinoamericano de Lógica Matemtica, Program committee, San José, Costa Rica, July. 2022;

Teaching

- TA at **UdelaR** 1999-2000, and at **Cornell University** 2002-2005.
- Instructor and Assistant Professor at the **University of Chicago**: Analysis in $\mathbb{R}^n$, part I. W06. F07. — Analysis in $\mathbb{R}^n$, part III. F05. S06. — Mathematical Logic I. F07. F08. — Mathematical Logic II. W08. — Introduction to Analysis and Linear Algebra. S09. S11. — Topics in Logic; Higher Recursion Theory. F08. — Topics in Logic; Reverse Mathematics. S06. F10. — Topics in Logic; Computable Structures. F10.
  Average of **4.6 over 5** in teaching evaluations over the 5 undergrad courses as Assistant Professor.
- Professor at **U.C. Berkeley**: Mathematical Logic (Grad). F12 — Abstract Algebra. Su13 — Mathematical Logic (Undergrad). F13 — Topics in Computability Theory. Turing degrees and Martin's conjecture. F13 — Analytic Geometry and Calculus. F14 — Undecidability and Incompleteness. F15 — Topics in Computability Theory. Computable Structures. F15 — Analytic Geometry and Calculus. F16 — Introduction to the Theory of Sets. F17 — Mathematical Logic II (Grad). S19 — Analytic Geometry and Calculus. F19 — Undecidability and Incompleteness. F19 — Introduction to the Theory of Sets. F20 — Mathematical Logic. F20 — Introduction to the Theory of Sets. F21 — Mathematical Logic. F21
- Berkeley Connect in Mathematics. S14, F14, S15, F16, S17, F17, S19, F19, F20, S22

PUBLICATIONS

Books:

(1) *Computable Structure Theory: Within the arithmetic.*
Cambridge University Press; Association for Symbolic Logic, 2021. xxii+190 pp.
(2) *Computable Structure Theory: Beyond the arithmetic.*
Submitted on April 14th, 2022.

Papers:

(1) *Embedding Jump Upper Semilattices into the Turing Degrees.*
Journal of Symbolic Logic, Vol. 68 (3), 2003, pp. 989-1014.
(2) *Embedding and coding below a 1-generic degree.* With Noam Greenberg.
Notre Dame Journal of Formal Logic, Vol. 44 (4), 2003, pp. 200-216.
(3) *Generalized High degrees have the complementation property.* With N. Greenberg and R. A. Shore.
Journal of Symbolic Logic, Vol. 69 (4), 2004, pp. 1200-1220.
(4) *Teoría de Conjuntos Según Von Newman (Set Theory in the sense of Von Newman).* **Publicaciones Matemáticas del Uruguay**, Vol. 10, 2005, pp. 91-110. (Extracted from my undergraduate thesis.)
(5) *Up to equimorphism, hyperarithmetic is recursive.*
Journal of Symbolic Logic, Vol 70 (2), 2005, pp. 360-378.
(6) *A minimal pair of K-degrees.* With Barbara F. Csima.
Proceedings of the AMS, 134, (2006), 1499-1502.
(7) *There is no order in the Generalized High/Low Hierarchy.*
Archive of Mathematical Logic Vol 45(2), 2006, pp. 215-231.
(8) *Equivalence between Fraïssé's conjecture and Jullien's theorem.*
Annals of Pure and Applied Logic Vol 139 (1-3) 2006, pp. 1-42.
(9) *Boolean Algebras, Tarski Invariants, and Index Sets.* With B. F. Csima and R. A. Shore. **Notre Dame Journal of Formal Logic** Vol 47 (1), 2006, pp. 1-23.
(10) *Indecomposable linear orderings and Theories of Hyperarithmetic Analysis.*
Journal of Mathematical Logic Vol 6, (1), 2006, pp. 89-120.
(11) *Equimorphism invariants for scattered linear orderings.*
Fundamenta Mathmaticae Vol 191, 2006, pp. 151-173.
(12) *A cappable almost everywhere dominating computably enumerable degree.* With George Barmpalias.
Proceedings of the Third International Conference on Computability and Complexity in Analysis (CCA 2006), Vol 167, 2007, pp. 17–31 (electronic).
(13) *On the equimorphism types of linear orderings.*
Bulletin of Symbolic Logic Vol 13, 2007, pp. 71-99.
(14) *Countably complementable linear orderings.*
Order Vol 23, 2006, pp321–331 (2007).
(15) *Computable linearizations of well-partial-orderings.*
Order Vol 24, 2007, p 39-48.
(16) *Ranked Structures and Arithmetic Transfinite Recursion.* With Noam Greenberg.
Transactions of the AMS Vol 360, 2008, pp. 1265-1307.
(17) *Subspaces of Computable Vector Spaces.* With Rodney G. Downey, Denis R. Hirschfeldt, Asher M. Kach, Steffen Lempp, and Joseph R. Mileti. **Journal of Algebra** Vol. 314, 2007, pp. 888-894.
(18) *On the triple jump of the set of atoms of a Boolean algebra.*
Proceedings of the AMS, Vol 136, 2008, pp. 2589-2595
(19) *A weakly 2-random set that is not generalized low.* With A. Lewis and A. Nies.
Proceedings of the CiE 2007, Vol 4497, 2007, pp. 474-477.
(20) *Slender Classes.* With Rod Downey.
Journal of the London Math. Society, Vol 78, 2008, pp. 36-50.
(21) *From Automatic Structures to Borel Structures.* With G. Hjorth and B. Khoussainov and A. Nies.
Proceedings of 23rd Annual IEEE Symp. on Logic in CS (LICS 2008), (2008), pp. 431-441.
(22) *The isomorphism problem for torsion-free Abelian groups is analytic complete.* With Rod Downey.
Journal of Algebra, Vol 320, 2008, pp. 2291-2300.
(23) *On the Π_1^1 Separation Principle.*
Mathematical Logic Quarterly Vol 54 (6), 2008, pp. 563-578.

(24) *Notes on the Jump of a structure.*
Mathematical Theory and Computational Practice, 2009, pp. 372-378.

(25) *On Fraïssé's conjecture for linear orders of finite Hausdorff rank.* With Alberto Marcone. **Annals of Pure and applied Logic**, 160, 2009, pp. 355-367.

(26) *Embeddability in the Turing Degrees.*
Logic colloquium 2006, **Lecture Notes in Logic**, 2009, pp. 229-246.

(27) *A Computable $\aleph_0$-categorical Structure Whose Theory Computes True Arithmetic.* With Bakhadyr Khoussainov. **Journal of Symbolic Logic**, 75 (2010), 728-740.

(28) *Computability of Fraïssé limits.* With B. F. Csima; V. Harizanov and R. Miller.
Journal of Symbolic Logic, 76 (1), 2011, pp. 66-93.

(29) *The Slaman-Wehner Theorem in higher recursion theory.* With N. Greenberg and T. A. Slaman.
Proceedings of the AMS, 139 (2011), pp. 1865-1869.

(30) *Counting the back-and-forth types.*
Journal of Logic and Computability, (2010), DOI: 10.1093/logcom/exq048

(31) *On the n-Back-and-Forth types of Boolean Algebras.* With Kenneth Harris.
Transactions of the AMS, 364 (2012), 827–866.

(32) *The Veblen functions for computability theorists.* With Alberto Marcone.
Journal of Symbolic Logic, 76 (2011), 575–602.

(33) *Cuts of Linear Orders.* With A. Kach.
Order, 28 (2011), 593–600.. DOI: 10.1007/s11083-010-9194-9

(34) *K-Trivials are never continuously random.* With G. Barmpalias. N. Greenberg and T. A. Slaman.
Proceedings of the 11th Asian Logic Conference, (2011), 51-58.

(35) *Isomorphism and Bi-Embeddability Relations on Computable Structures.* With E. B. Fokina, S. Friedman, V. Harizanov, J. F. Knight and C. McCoy. **Journal of Symbolic Logic**, 77 (2012), 122-132.

(36) *Open questions in Reverse Mathematics.*
Bulletin of Symbolic Logic, 17 (2011), 431-454.

(37) *Computing Maximal Chains.* with A. Marcone and R. A. Shore
Archive for Mathematical Logic, 51 (2012), 651-660.

(38) *Rice Sequences of Relations.*
Philosophical Transactions of the Royal Society A, 370 (2012), 3464-3487.

(39) *Extensions of Embeddings below computably enumerable degrees.* With R. Downey, N. Greenberg and A. Lewis. **Transactions of the AMS**, 365 (2013), 2977–3018..

(40) *A fixed point for the jump operator on structures.*
Journal of Symbolic Logic, 78 (2013), 425-438.

(41) *Relative to any non-hyperarithmetic set.* With N. Greenberg and T. A. Slaman.
Journal of Mathematical Logic, 13 (2013),.

(42) *A computability theoretic equivalent to Vaught's conjecture.*
Advances in Mathematics, 235 (2013), 56–73.

(43) *Borel structures: a brief survey.* With Andre Nies.
Lecture Notes in Logic 41, Effective Mathematics of the Uncountable (2013), 124-134.

(44) *The limits of determinacy in Second Order Arithmetic.* With Richard A. Shore.
Proceedings of the London Math Society, 104 (2012), 223-252..

(45) *Boolean Algebra Approximations.* With Kenneth Harris.
Transactions of the AMS, 366 (2014), 52235256.

(46) *Copyable Structures.*
Journal of Symbolic Logic, 78 (2013), 1025-1346..

(47) *The Limits of Determinacy in Second Order Arithmetic: Consistency and Complexity Strength*, with R. A. Shore. **Israel Journal of Mathematics**, 204 (2014), 477–508.

(48) *The complexity of computable categoricity.* With Downey, Kach, Lempp, Lewis-Pye and Turetsky.
Advances of Mathematics, 268 (2015), 423–466.

(49) *Computability theoretic classifications for classes of structures.*
Proceedings of ICM 2014, Volume 2, 79-101.

(50) *Priority arguments via true stages.*
Journal of Symbolic Logic, 79 (2014), 1315-1335 .

(51) *Decidability and Undecidability of the Theories of Classes of Structures.* with A. Kach.
Journal of Symbolic Logic, 79 (2014), 1001–1019.

(52) *Classes of structures with no intermediate isomorphism problems.*
Journal of Symbolic Logic, 81 (2016), 127–150.

(53) *Analytic Equivalence Relations satisfying Hyperarithmetic-is-recursive.*
Forum of Mathematics, Sigma, 3 (2015), e8, 11.

(54) *The Strength of Turing Determinacy within Second Order Arithmetic.* With R. A. Shore.
Fundamenta Mathematicae, 232 (2016), 249–268.

(55) *A robuster Scott rank.*
Proceedings of the American Mathematical Society, 143 (2015), 5427–5436

(56) *Independence in Computable Algebra.* With M. Harrison-Trainor and A. Melnikov.
Journal of Algebra, 443 (2015), 441–468.

(57) *Matemática Computable.*
Publicaciones Matemticas del Uruguay, 15 (2016), 1-15.. (In Spanish.)

(58) *Computable structures in generic extensions.* With J. F. Knight and N. Schweber.
Journal of Symbolic Logic, 81 (2016), 814–832.

(59) *The complements of lower cones of degrees and the degree spectra of structures.* With Andrews, Cai, Kalimullin, Lempp, and J. Miller. **Journal of Symbolic Logic**, 81 (2016), 997–1006.

(60) *Effectively existentially-atomic structures.*
Computability and Complexity, Lecture Notes in Computer Science, 10010 (2016), 221-237.

(61) *Degree-invariant, analytic equivalence relations without perfectly many classes.*
Proceedings of the American Mathematical Society, 145 (2017), 395-398.

(62) *Sex versus Asex: an analysis of the role of variance conversion.* With Andrew E. M. Lewis-Pye
Theoretical Population Biology, 114 (2017), 128135.

(63) *The Least Sigma-jump Inversion Theorem for n-Families.* With Faizrahmanov, Kalimullin, and Puzarenko
J.UCS, 23 (2017), 529–538.

(64) *Computable functors and effective interpretability.* With Harrison-Trainor, Melnikov and R. Miller.
Journal of Symbolic Logic, 82 (2017), 77–97.

(65) *Fraïssé's conjecture in Π_1^1-comprehension.*
Journal of Mathematical Logic, 17 (2017), 1750006, 12.

(66) *Coding and Definability in Computable Structures.*
Notre Dame Journal of Formal Logic, 59 (2018), 285–306.

(67) *Computable Polish group actions.* With A. Melnikov.
Journal of Symbolic Logic, 83 (2018), 443–460.

(68) *Borel functors and infinitary interpretations.* With M. Harrison-Trainor and R. Miller
Journal of Symbolic Logic, 83 (2018), 1434–1456..

(69) *Conservativity of ultrafilters over subsystems of second order arithmetic.* With R. A. Shore
Journal of Symbolic Logic, 83 (2018), 740–765.

(70) *The uniform Martin's conjecture for many-one degrees.* With T. Kihara
Transactions of the AMS, 370 (2018), 9025–9044.

(71) *On the structure of the Wadge degrees of BQO-valued Borel functions.* With T. Kihara
Transactions of the AMS, 371 (2019), 7885–7923..

(72) *On the inevitability of the consistency operator.* With James Walsh
Journal of Symbolic Logic, 84 (2019), 205–225.

(73) *Jump inversions of algebraic structures and the Sigma-definability* With M. Faizrahmanov, A. Kach, I. Kalimullin, V. Puzarenko **Mathematical Logic Quarterly**, 65 (2019), 37–45.

(74) *Martin's Conjecture: A Classification of the Naturally Occurring Turing Degrees*
Notices of the American Mathematical Society, 66 (2019), no. 8, 12091215.

(75) *The determined property of Baire in reverse math.* With E. P. Astor, D. Dzhafarov, A., R. Solomon, L. B. Westrick
Journal of Symbolic Logic, 85 (2020), 166–198.

(76) *Punctual definability on structures*, With I. Kalimullin, and A. Melnikov,
Ann. Pure Appl. Logic, 172 (2021), Paper No. 102987, 18.

(77) *The tree of tuples of a structure.* With M. Harrison-Trainor.
Journal of Symbolic Logic, 87 (2022), 21–46.

(78) *Herd immunity under individual variation and reinfection* With Rodrigo M. Corder and M. G. M. Gomes
Submitted for publication .

(79) *A new game metatheorem for Ash-Knight style priority constructions*
Submitted for publication .

Invited Talks at Conferences or Workshops

(1) ASL annual meeting. **Chicago**, IL, May 2003. (20m)
(2) Computability and Logic Workshop, **Heidelberg**, Germany, June 2003. (20m)
(3) Southeastern Logic Symposium. **Gainesville**, FL, March 2004 (20m)
(4) Fall 2004, AMS Central Section Meeting. **Evanston**, IL, October 2004. (20m)
(5) Joint Mathematics meetings. **Atlanta**, GA, January 2005. (20m)
(6) ASL Annual Meeting Stanford, **Palo Alto**, CA, March, 2005. (20m)
(7) Computational Prospects of infinity. **Singapore**, July-August 2005. (1hr)
(8) Southeastern Logic Symposium. **Gainesvile**, FL, March 10-12 of 2006. (**Plenary** 1hr)
(9) AMS Central Section Meeting. **Notre Dame**, IN, April, 8,9 of 2006. (20m)
(10) Greater Boston Logic Conference, **Boston**, MA, May 12-14 of 2006. (1hr)
(11) Annual Meeting of the ASL, **Montreal**, Canada, May 17-21 of 2006. (**Plenary talk**, 1hr)
(12) ASL Summer Meeting "Logic Colloquium '06". **Nijmegen**, Netherlands, July 2006. (**Plenary**, 1hr)
(13) Proof Theory of arithmetic, **Kyoto**, Japan, August 21st-23rd of 2006. (1hr) (1hr)
(14) Workshop on Computability, Randomness and Model theory, **Auckland**, New Zealand, Nov 2006. (1hr)
(15) Logic, Combinatorics and Independence Results, **Oberwolfach**, Germany, November 2006. (1hr)
(16) Joint Meeting of AMS-NZMS. **Wellington**, New Zealand, Dec 12-15, 2007. (20m)
(17) Computability, Complexity and Randomness, **Nanjing**, China, May 19-23, 2008. (1hr)
(18) Effective Mathematics of the Uncountable, Cuny, **New York** NY. Aug 18-22 of 2008. (1hr)
(19) AMS Fall Eastern Section Meeting, **Middletown**, CT. Oct 11-12 of 2008. (20m)
(20) Computability, Reverse Mathematics and Combinatorics, **Banff**, Canada. December 7-12, 2008. (1hr)
(21) A Conference in Honor of Harvey Friedmans 60th Birthday, **Columbus**, OH. May 15-17, 2009. (40m)
(22) ASL annual meeting. **Notre Dame**, IN, May 20-23, 2009. (30m)
(23) Computability in Europe, **Heidelberg**, Germany, July 2009. (40m)
(24) Workshop on Computability Theory, **Sofia**, Bulgaria, August 2009. (1hr)
(25) Ramsey Theory in Logic, Combinatorics and Complexity, **Bertinoro**, Italy, October 2009. (1hr)
(26) 2do Coloquio Uruguayo de Matemática, **Montevideo**, Uruguay, December 2009. **Tutorial**. (4.5 hrs)
(27) Mal´tsev Meeting, **Novosibirsk**, Russia, May 2010. (**Plenary talk**, 1hr)
(28) AMS fall Sectional meeting at **Notre Dame**, November 2010. (20min)
(29) ASL annual meeting. Special Session for L. Harrington. **Berkeley**, CA, March 2011. (30 min)
(30) Computability in Europe, **Sofia**, Bulgaria. June-July 2011. (**Plenary**, 1hr)
(31) Infinity Meeting, **Barcelona**, Spain, July 2011, (1hr)
(32) Prospects of infinity, **Singapore**, August 2011, (1hr)
(33) Packard Meeting, **Monterey**, CA, September 2011. (15 min)
(34) Seminar in Proof Theorey, **Oberwolfach**, Germany, October 2011. (**tutorial**, 3hr)
(35) 3er Coloquio Uruguayo de Matemática, **Montevideo**, Uruguay, December 2011.(**Plenary**, 1 hrs)
(36) Workshop in Computability Theory, **Oberwolfach**, Germany, February 2012.
(37) AMS Sectional Meeting at **Washington**, DC. March 2012 (20 min)
(38) Annual ASL meeting, **Madison**, WI, April 2012. (**Plenary**, 1hr)
(39) Latin American Symposium on Mathematical Logic, **Bogota**, Colombia, June 2012. (**Plenary**, 1hr)
(40) The incomputable, **Cambridge**, UK, June 2012. (1hr)
(41) Logic Colloquium, **Manchester**, UK, July 2012. (**Tutorial** 3 hrs)
(42) Mamls, **New Brunswick**, NJ, October 2012 (1hr).
(43) Workshop on Computable stability theory, **Palo Alto**, CA, August 2013. (1hr)
(44) Computability Theory and Foundations of Mathematics, **Tokyo**, Japan, February 2014. (1hr)
(45) AMS Sectional Meeting, **Albuquerque**, NM, April 2014. (20min)
(46) Infinity Workshop, **Vienna**, Austria, July 2014. (1hr)
(47) Latin American Symposium of Math. Logic, **Buenos Aires**, Argentina, August 2014. (**Tutorial** 4 hrs)
(48) **ICM** International Congress of Mathematicians, **Soul**, Korea, Aug 2014. (Special session in Logic 45min)
(49) Congreso Latinoamericano de Algebra, **Lima**, Peru, December 2014. (**Plenary** 50 min)
(50) Very Informal Gathering, **Los Angeles**, CA, January 2015 (50 min).
(51) AMS Sectional Meeting, **Washington** D.C., March 2015 (20 min).
(52) Sets and Computations, **Singapore**, April 2015 (50 min).

(53) Packard Meeting, **Monterey**, CA, September 2015 (16 min).
(54) "Measuring the Complexity of Computational Content", **Dagstuhl**, Germany, September 2015 (20 min)
(55) Tercera Escuela de Lgica y Conjuntos, **Mexico City**, Mexico, December 2015. (**Tutorial** 3hs).
(56) 5to Coloquio Uruguayo de Matemática, **Montevideo**, Uruguay, December 2015. (**Plenary**, 1 hrs)
(57) Sendai Logic School 2016, **Sendai**, Japan, January 2016. (2hs).
(58) Foundational Impact of Recursion Theory, **Stors**, CT, May 2016. (30min)
(59) V Congreso Latinoamericano de Matemáticos, **Barranquilla**, July 2016. Colombia. (**Plenary**, 30 min)
(60) Computability and Complexity Symposium, **Raumati**, New Zealand, January 2017. (35 min)
(61) NZMRI summer meeting, **Napier**, New Zealand, January 2017. (**Tutorial**, 4hs).
(62) Dagstuhl Seminar in Computability theory. **Dagstuhl**, Germany, February 2017. (1hr)
(63) Panhellenic Logic Symposium. **Delphi**, Greece, July 2017 (35 min).
(64) Computability Theory and its Applications, **Waterloo**, Canada June 2018 (**Public lecture**, 1hr)
(65) Imaginary Conference, **Montevideo**, Uruguay December 2018 (**Plenary**, 30min)
(66) Joint AMS Meetings, **Baltimore**, MD, January 2019. (20min)
(67) Colloquium of Algebras and Representations - Quantum **Montevideo**, Uruguay. March, 2019 (1hr).
(68) Workshop on Recursion Theory, Set Theory and interactions. **Singapore.** June 2019 (**Tutorial** 4hr).
(69) AMS Sectional Meeting–Steffen Lempps 60th birthday, **Madison**, WI. September 2019 (30min)
(70) Canadian Winter Meeting, **Toronto**, Canada, December 2019, (**Plenary**, 1hr)
(71) Cibercoloquio Latinoamericano de Matemáticas, (online) 1hr
(72) Southeastern Logic Symposium. **Gainesvile**, FL, February 2021. (**Plenary** 1hr)
(73) VI Congreso Latinoamericano de Matemáticos, **Montevideo**, July 2021. Montevideo. (**Plenary**, 1hr)