Curriculum Vitae

Giovanni Curi

Last updated: January 11, 2016; see also http://www.giovannicuri.com/

1 Qualifications

2014 National scientific qualification (abilitazione scientifica nazionale), associate professor, by the Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR), Italy.
https://abilitazione.cineca.it/ministero.php/public/esito/settore/01%252FA1/fascia/2

2014 Master in Project Design.

2007 *Qualification aux fonctions de maître de conférences en Mathématiques* from the *Conseil National des Universités*, France, 31.01.2007.

2004 Ph.D. Degree *with excellence* in mathematical logic and theoretical computer science, from the Department of Mathematics, University of Siena.

1998 Degree in Mathematics, University of Padova.

2 Academic awards

2011 *Kurt Gödel Research Prize Fellowship 2010* - **Silver Medal** (post-doc category: within ten years after Ph.D. degree).

2010 *Fubini Award* nomination.

2006 *Italian Association of Logic and its Applications Award* for the best Ph.D. thesis in mathematical logic in the period 2003-2005.

2001 *Italian Association of Logic and its Applications Award* for the best *tesi di laurea* in mathematical logic in the period 1998-2000.

3 Academic and non-academic employment history, main research fellowships

Non-academic positions:

2015 *Research scientific manager* (PE domain), University of Padova.

2015 Editor and curator of *Quaderni di ricerca sull'artigianato*, Il Mulino.

2014 Contractor for *Centro Studi Sintesi*.

2013 External collaborator for *Zanichelli Editore*.

Academic positions won in competitions **with ranking** open to candidates working in any area of mathematics:

2011   Two-year senior research associate position (*assegno di ricerca senior*), Department of Mathematics, University of Padova. **Ranked first.**

2004   Two-year post-doctoral position, Department of Mathematics, University of Padova. **Ranked first.**

Positions for research in the area of mathematical logic (**without ranking**):

2010   Six-month research associate position (*assegno di ricerca*), Department of Computer Science, University of Verona (position interrupted after two months due to the commencement of a new position).

2010   Three-month research contract from the Department of Mathematics, University of Padova.

2009   Six-month research associate position (*assegno di ricerca*), Department of Computer Science, University of Verona.

2008   One-year research associate position (*assegno di ricerca*), Department of Computer Science, University of Verona.

Other grants:

2010   Five-month research grant from the Department of Applied Psychology, University of Padova.

2005   Grant from the "Fondazione Gini" for a six-month visit to the School of Computer Science of the University of Birmingham (UK).

1999   Four-year Ph.D. scholarship from the Department of Mathematics, University of Siena.

1999   Four-month grant from the project "Metodi costruttivi in topologia, algebra, e analisi dei programmi" of the "Ministero dell'università e della ricerca scientifica".

I have also often been supported by grants from the National Institute of High Mathematics (I.N.D.A.M., G.N.S.A.G.A group), and other foreign institutions, for participating in international conferences and meetings.

4   Invited lectures, invited seminars, talks at international meetings

Invited lectures and invited talks

2012 "Continuity, Computability, Constructivity From Logic to Algorithms", special session in honour of Dieter Spreen's 65th Birthday. Trier, Germany, June 2, 2012. Invited by the the CCC-2012 organising team.

Title: *The uniform objects in constructive set theory.*

2010 "Workshop on Constructive Aspects of Logic and Mathematics", Kanazawa, Japan, March 8-12, 2010. Invited by Hajime Ishihara and Takako Nemoto.

Title: *Intuitionistic theorems that fail constructively.*

2009 "Continuity, Computability, Constructivity: From Logic to Algorithms", Koeln, Germany, July 14-18, 2009. Invited by Dieter Spreen.

Title: *Imaginary locales.*

2009 "Leeds Symposium on Proof Theory and Constructivism", University of Leeds, UK, 3 - 16 July 2009. Invited by Laura Crosilla, Michael Rathjen, Stan Wainer.

Title: *Imaginary locales.*

2008 "Advances in Constructive Topology and Logical Foundations", conference on the occasion of Giovanni Sambin's 60th birthday, held in Padova, (Italy), 8-11 October 2008. Invited by C. Faggian, M. E. Maietti and P. Schuster.

Title: *A cocomplete extension of the category of formal topologies.*

2008 "Workshop on Constructivism: Logic and Mathematics", Kanazawa (Japan) 26 - 30 May 2008. I could not participate for circumstances outside my control. Invited by H. Ishihara and J. Berger.

2007 "Third Workshop on Formal Topology", Padova (Italy), 7-12 May 2007. Invited by T. Coquand, G. Sambin, and P. Schuster.

Title: *All the constructive compactifications of a frame.*

2006 "Trends in constructive mathematics", Chiemsee (Germany) June 19-23, 2006. Invited by J. Berger, D. Pattinson, P. Schuster, J. Zappe.

Title: *On some peculiar aspects of the category of formal spaces.*

2005 "20th Summer Conference on Topology and its Applications". July 10-14, Dennison University, Ohio. Invited by D. Spreen.

Title: *Exact approximations to Stone-Čech compactification.*

2004 Workshop "Computability on Hierarchies and Topological Spaces", Siena, July 19-24, 2004.

Title: *Effective topology via formal spaces and their inverse limits.*

Invited seminars

2011 Kurt Gödel Research Center, Vienna (Austria), invited by Sy Friedman, April 27, 2011.

Title: *Independence results in constructive set theory and constructive type theory.*

2005 Department of Mathematics, University of Manchester (UK), invited by P. Aczel, June, 7, 2005.

Title: *Effective topology via formal spaces.*

2004 Department of Mathematics, University of Uppsala (Sweden), invited by P. Martin-Löf (Stockholm) and E. Palmgren (Uppsala), February, 13, 2004. Two seminars:

Title 1: *Small hom-sets in the category of formal spaces and the Stone-Čech compactification,*

Title 2: *Metric and uniform formal spaces.*

1998 Department of Mathematics, University of Munich (Germany), invited by P. Schuster and H. Schwichtenberg, December 14, 1998.

Title: *A predicative framework for analysis via formal topology.*

Talks

2011 XIX Congresso dell'Unione Matematica Italiana, Bologna, September 16, 2011.

Title: *Risultati di indipendenza in teoria costruttiva degli insiemi e dei tipi.*

2010 "Workshop on constructive topology", Palermo, September 6-7, 2010.

Title: *Inductive Definitions, Imaginary Locales, Generalized Geometric Propositional Theories.*

2002 "TYPES 2002 Workshop", Nijmegen (Holland), April 24-28, 2002.

Title: *The effective Stone-Čech compactification: Embedding spaces into data-types.*

http://www.fnds.cs.ru.nl/TYPES2002/

2002 "Second Workshop on Formal Topology", Auditorium Santa Margherita, Venice (Italy), April 4-6, 2002.

Title: *The effective Stone-Čech compactification.*

http://www.math.unipd.it/∼logic/events_2wftop.html

2000 "XX incontro dell' Associazione Italiana di Logica e sue Applicazioni", Ravello (Salerno), September 25-28, 2000.

Title: *How a constructive version of Urysohn metrization theorem can turn a collection into a set.*

http://www.unicam.it/matinf/aila/Incontri/XX/prog.html

2000 "Logic Colloquium 2000", Paris, Université de la Sorbonne, July 23-31, 2000.

Title: *How a constructive version of Urysohn metrization theorem can turn a collection into a set.*

http://lc2000.logique.jussieu.fr/progra.html

1999 Symposium "Reuniting the Antipodes: Constructive and Non-standard Views of the Continuum", Venice International University (Venice, Italy), May 17-23, 1999.

Title: *Points in compact regular formal topologies.*

http://www.mathematik.uni-muenchen.de/∼antipode/program.html

1998 "Workshop on Domains IV" Rolandseck (Bonn), Germany, October 2-4, 1998.

Title: *Formal topologies with weight and distance: a predicative framework for analysis.*

1997 "First Workshop on Formal Topology", October 2-4, 1997, University of Padova.

Title: *Dia-metrization of formal topologies.*

http://www.math.unipd.it/∼logic/events_1wftop_program.html

5 Main academic visits and participation in seminars with only invited scholars

2013 Invited participant at the Dagstuhl meeting "Duality in Computer Science", Germany (Schloss Dagstuhl, Wadern, 28/7-02/08, 2013). I could not participate due to health reasons.

2007 Invited participant at the Dagstuhl meeting "Logic, Computability and Topology in Computer Science: A New Perspective for Old Disciplines", Germany (Schloss Dagstuhl, Wadern, April 19-21, 2007).

http://www.dagstuhl.de/07163

2005 Six-month visit at the School of Computer Science of the University of Birmingham (UK).

2004 One-week visit at the departments of mathematics of Stockholm and of Uppsala (Sweden), invited by the Stockholm- Uppsala logic group.

2002 Invited participant at the Dagstuhl meeting "Mathematical Structures for Computable Topology and Geometry", Germany (Schloss Dagstuhl, Wadern, 26.05.-31.05.2002).

http://www.dagstuhl.de/en/program/calendar/semhp/?semid=-2002221

2000 Invited participant at the Dagstuhl meeting "Topology in Computer Science: Constructivity; Asymmetry and Partiality; Digitalization", Germany (Schloss Dagstuhl, Wadern, 4.6. - 9.6.2000).

http://www.dagstuhl.de/en/program/calendar/semhp/?semid=-2000231

6 Refereeing activity for journal publications

I acted *repeatedly* as referee for the following journals and publishing companies (inter alia): *Journal of Pure and Applied Algebra*, *Annals of Pure and Applied Logic*, *Mathematical Structures in Computer Science*, *Topology Proceedings*, *Theoretical Computer Science*, Oxford University Press (refereed conference proceedings).

I have often acted as referee for publications in conference proceedings and anthologies.

I am reviewer for *Mathematical Reviews* and *Zentralblatt*.

In 2008 I acted as referee for the Italian Association of Logic and its Applications in connection with the award for the best degree thesis (tesi di laurea) in mathematical logic.

7 Publications

1. G. Curi, "On Tarski's fixed point theorem".
   Proc. Amer. Math. Soc., 143 (2015), pp. 4439-4455.

2. G. Curi, M. Rathjen, "Formal Baire space in constructive set theory".
   In: *Logic, Construction, Computation.* Papers in honor of Helmut Schwichtenberg's 70th birthday. P. 123-135, Ontos Verlag, Frankfurt, 2012.

3. G. Curi, "Topological inductive definitions". Finalists' papers of the **Kurt Gödel Centenary Research Prize Fellowship 2010**. *Annals of Pure and Applied Logic*, 163 (2012), pp. 14711483.

4. G. Curi, "On the existence of Stone-Čech compactification". *Journal of Symbolic Logic*, 75, 4 (2010), pp. 1137-1146.

5. G. Curi, "On some peculiar aspects of the constructive theory of point-free spaces". *Mathematical Logic Quarterly*, 56, No. 4 (2010) pp. 375-387.

6. P. Aczel, G. Curi, "On the T_1 axiom and other separation properties in constructive point-free and point-set topology". *Annals of Pure and Applied Logic*, 161 (2010), pp. 560-569.

7. G. Curi, "Remarks on the Stone-Čech and Alexandroff compactification of locales". *Journal of Pure and Applied Algebra*, 212, 5, 2008, pp. 1134-1144.

8. G. Curi, "Exact approximations to Stone-Čech compactification". *Annals of Pure and Applied Logic*, 146, 2-3, 2007, pp. 103-123.

   First of APAL 'Top 25 hottest articles' April-June 2007
   (see http://top25.sciencedirect.com/?journal_id=01680072).

9. G. Curi, "On the collection of points of a formal space". *Annals of Pure and Applied Logic*, 137, 1-3, 2006, pp. 126-146.

10. G. Curi, "Constructive metrisability in point-free topology". *Theoretical Computer Science*, 305, 2003, pp. 85-109.

11. G. Curi, "The points of (locally) compact regular formal topologies". In *Reuniting the Antipodes—Constructive and Nonstandard Views of the Continuum*. Synthèse Library, Vol. 306 (2001), pp. 39-54. Kluwer Academic Publishers, Dordrecht etc. Eds. U. Berger, et al. (refereed conference proceedings).

12. G. Curi, "Metric spaces in type theory via formal topology" (Extended Abstract). In: Proceedings of the Workshop on Domains IV, Rolandseck, Germany, 2-4 October 1998 *Electronic Notes in Theoretical Computer Science*, n.35, 2000.

8 Ph.D. Thesis

Title: *Geometry of observations. Some contributions to (constructive) point-free topology.*

Thesis jury members: Prof. F. Montagna (University of Siena, president), prof. S. Martini (University of Bologna), prof. S. Valentini (University of Padova).

External referees: Prof. P. Aczel (University of Manchester), prof. M. B. Smyth (Imperial college, London).

Jury's report (italian): "Le ricerche della tesi sono molto originali. Le metodologie utilizzate appaiono del tutto innovative. I risultati sono di grande interesse ed analizzati con profondo senso critico. Nel colloquio il candidato dimostra piena e sicura conoscenza delle problematiche trattate. La commissione giudica il lavoro svolto eccellente".

Date of examination: February 2, 2004.

Italian Association of Logic and its Applications Award for the best Ph.D. thesis in mathematical logic in the period 2003-2005 (http://www.ailalogica.it/premi/dottorato.php).

Award jury members: A. Berarducci (University of Pisa), A. Marcja (University of Firenze), G. Rosolini (University of Genova).

9 Teaching activity

I cooperated with Professor R. Ferro for the mathematical logic course, at the Department of Computer Science, University of Verona (academic years 2007/2008, 2008/2009). I acted as co-supervisor of R. Luongo's Tesi di Laurea in mathematical logic (University of Padova, 2004).

10 Workshops or conferences (co-)organization

2009 "Quale logica per la didattica", Department of Computer Science, University of Verona, October 23 - 25, 2009.

2002 "II Workshop on Formal Topology", Venice (Italy), April 4-6, 2002.

1997 "I Workshop on Formal Topology", October 2-4, 1997, University of Padova.

Since 1996, I participated in, and co-authored, several founded research projects.

11   Education

Ph.D. student in mathematical logic and theoretical computer science, Department of Mathematics, University of Siena (1999-2004). Student in Mathematics, University of Padova (1993-98). Student of the *Maîtrise de Physique*, Université de Paris 11 (Erasmus, 1992-93). Student in Physics, University of Padova (1989-93).

Foreign languages: English, French.

12   References

References by outstanding scholars will be provided upon request.

13   Contact details

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<div align="right">Giovanni Curi</div>