

CURRICULUM VITAE

(last updated: 05/02/2012)

Name: Carles Noguera i Clofent

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Born in Barcelona (Catalan Countries), 15th December 1978.

EDUCATION:

Degree in Mathematics at the University of Barcelona (June 2001)

Degree in Philosophy at the University of Barcelona (June 2007)

Master Degree in Logic and Foundations of Mathematics at the University of Barcelona with the dissertations: *T-norms and Fuzzy Logic* and *Involutive Fuzzy Logics* (October 2004)

Committee: Juan Carlos Martínez Alonso (chair), Enrique Casanovas and Raimon Elgueta.

Evaluation: Excellent.

Ph.D. in Logic and Foundations of Mathematics at the University of Barcelona with the dissertation: *Algebraic study of axiomatic extensions of triangular norm based fuzzy logics* (July 2006)

Advisors: Francesc Esteva (IIIA – CSIC) and Joan Gispert (University of Barcelona)

External referees: Siegfried Gottwald and Franco Montagna.

Committee: Antoni Torrens (chair), Ramon Jansana, Franco Montagna, Ventura Verdú and Lluís Godó.

Evaluation: “Excellent Cum Laude” (by unanimity)

EMPLOYMENT HISTORY:

Since December 2009: Postdoctoral researcher “Juan de la Cierva” at the Artificial Intelligence Research Institute (IIIA – CSIC), Bellaterra, Catalonia.

October 2009 – November 2009: Visiting postdoctoral researcher at Institute of Philosophy / Institute of Computer Science, Czech Academy of Sciences, Prague, Czech Republic.

October 2007 – October 2009: Postdoctoral researcher “Beatriu de Pinós” at the Department of Mathematics and Computer Science R. Magari, University of Siena, Siena, Italy.

September 2006 – September 2007: Lecturer at the Department of Computer Science and Industrial Engineering. University of Lleida, Lleida, Catalonia. External collaborator of the Artificial Intelligence Research Institute (IIIA - CSIC).

July 2002 – September 2006: Ph.D. student with an FPI fellowship at the Artificial Intelligence Research Institute (IIIA – CSIC), Bellaterra, Catalonia.

September 2000 – June 2002: Science teacher, Academy "L'Estudi", Calella, Catalonia.

COMPUTER SKILLS AND ACTIVITIES:

- Programming languages: BASIC, C, LISP and PROLOG.
- Linux and LaTeX user
- Wikipedian (English and Catalan editions)

LANGUAGE SKILLS:

- Catalan (native)
- English (advanced level)
- Italian (near-native level)
- Spanish (near-native level)

TEACHING CV:

Academic year 2003/2004:

Seminar taught at the Ph.D. Students' Seminar of the Faculty of Arts and Philosophy of Charles University Prague (23 October 2003):

- Introduction to Abstract Algebraic Logic (2 hours)

Academic year 2006/2007:

Three undergraduate courses taught at the Department of Computer Science and Industrial Engineering of the University of Lleida:

- Computational logic (first semester) (50 hours)
- Artificial intelligence (first semester) (60 hours)
- Intelligent systems (second semester) (60 hours)

Academic year 2007/2008:

Ph.D. course taught at the Department of Mathematics and Computer Science of the University of Siena (with T. Flaminio):

- Mathematical fuzzy logic (second semester) (taught 8 hours out of 16)

Academic year 2008/2009:

Ph.D. course taught at the Department of Mathematics and Computer Science of the University of Siena (with T. Flaminio):

- Mathematical fuzzy logic (second semester) (taught 8 hours out of 16)

Seminar taught at the Ph.D. Students' Seminar of the Faculty of Arts and Philosophy of Charles University Prague (23 February 2009):

- Abstract Algebraic Logic: an introduction (2 hours)

Academic year 2011/2012:

Advanced course to be taught at the European Summer School in Logic, Language and Information (ESSLLI) (Opole, Poland, August 2012) (with P. Cintula):

- Abstract algebraic logic: theory and applications (10 hours)

RESEARCH CV:

Research interests:

Mathematical Fuzzy Logic

Reasoning with vagueness and uncertainty

(Abstract) Algebraic Logic

Non-classical logics for Artificial Intelligence

Participation in funded research projects:

- MaToMUVI (2011 – 2013). Mathematical Tools for the Management of Uncertain and Vague Information. FP7-PEOPLE-2009-IRSES project. Code: PIRSES-GA-2009- 247584. Principal investigator: Luca Spada.
- TASSAT (2011 – 2013). Theories, applications and synergy in SAT, Constraint Satisfaction Problem and Fuzzy Description Logics. Code: TIN2010-20967-C04-01. Principal investigator: Jordi Levy.
- LoMoReVI (2009 – 2011). Logical Models of Reasoning with Vague Information. EUROCORES Programme. Principal investigator: Lluís Godo.
- MULONG 2 (2008 – 2010). Multivalued logic: foundations and applications to satisfiability, argumentation and ontologies. Code: TIN2007-68005-C04-01. Principal investigator: Francesc Esteva.
- MULONG (2005 – 2007). Multivalued logic: foundations and applications to the treatment of vagueness and imprecision. Code: CICYT, TIN2004-07933-C03-01. Principal investigator: Francesc Esteva.
- LOGFAC (2002 – 2004). Classical and multivalued logic: foundations and computational applications. Code: CICYT TIC2001-1577-C03-01. Principal investigator: Francesc Esteva.

Participation in funded bilateral collaboration programs:

- CSIC – Czech Academy of Sciences bilateral project 2008CZ0015 for collaboration between IIIA and Institute of Computer Science (2009 – 2010). Title: Fuzzy logics and modalities. Principal investigator: Francesc Esteva.
- Spanish-Austrian bilateral project HU2005-0024 (2006 – 2007). Title: Analytic Systems and Dialogue Games as Semantics of Fuzzy Logics. Principal investigator: Àngel Gil.
- CSIC – Czech Academy of Sciences bilateral project 2004CZ0015 for

- collaboration between IIIA and Institute of Computer Science (2005 – 2006).
Title: Theoretical investigations of fuzzy logic systems in the framework of substructural logics. Principal investigator: Francesc Esteva.
- Spanish-Austrian bilateral project HU2003-0043 (2004 – 2005). Title: Monadic Fuzzy Logics. Principal investigator: Francesc Esteva.
 - CSIC – Czech Academy of Sciences bilateral project 2003CZ0001 for collaboration between IIIA and Institute of Computer Science (2003 – 2004). Title: Theoretical foundations of managing uncertainty in KBS. Principal investigator: Francesc Esteva.
 - Spanish-Austrian bilateral project HU2001-0030 (2002 – 2003). Title: T-norms formalized: proof theory and semantics of fuzzy logics. Principal investigator: Francesc Esteva.

Academic assessments:

- Accreditation for a tenured assistant professor position (issued on 2011 by the Catalan Agency for University Quality)
- Accreditation for a tenure-track lecturer position (issued on 2007 by the Catalan Agency for University Quality)

Awards and honours:

- Featured paper at TACL09 conference (July 2009)
- Distinguished paper at the 5th EUSFLAT conference (September 2007)
- Special prize for the Philosophy degree (June 2007)
- Prize Évariste Galois of the Catalan Mathematical Society (April 2005)

Organization of conferences and workshops:

- Second meeting on Artificial Intelligence and Quality of Life (Barcelona, 26 November 2011)
- International Workshop on Mathematical Fuzzy Logic and Soft Computing (Barcelona, November 2008)
- Logic, Algebra and Truth Degrees 2008 (Siena, September 2008)
- Algebraic and topological methods in non-classical logics II (Barcelona, June 2005)
- Second Workshop on the Foundations of Mathematics (Barcelona, July 2003)
- First Workshop on the Foundations of Mathematics (Barcelona, July 2002)

Organization of special sessions in conferences:

- Special session on Mathematical Fuzzy Logic in EUSFLAT 2011 (Aix-Les-Bains, July 2011)
- Special session on Mathematical Fuzzy Logic in FSTA 2010 (Liptovský Jan, Slovakia, February 2010)
- Special session on Mathematical Fuzzy Logic in IFSA-EUSFLAT 2009 (Lisbon, July 2009)

Member of the program committee of the conferences:

- Logic, Algebra and Truth Degrees 2012 (Kyoto, September 2012)
- 7th Conference of the European Society for Fuzzy Logic and Technology EUSFLAT 2011 (Aix-Les-Bains, July 2011)
- Logic, Algebra and Truth Degrees 2010 (Prague, September 2010)
- Information processing and management of uncertainty in knowledge-based systems IPMU 2010 (Dortmund, June 2010)
- IEEE International Symposium on Multiple-Valued Logic 2010 (Barcelona, May 2010)

Invited talks in conferences and seminars:

Philosophy of constructive mathematics (First Workshop on the Foundations of Mathematics, Barcelona, July 2002).

The Algebraization of Linear and Fuzzy Logics (Seminar of Applied Mathematical Logic, Institute of Computer Science of the Academy of Sciences of the Czech Republic, 29 October 2003).

MTL and IMTL (Seminar of the Soft Computing Laboratory, Department of Informatics and Mathematics, University of Salerno, 17 February 2004).

On the scope of some definitions of the additive connectives in fuzzy logics (Seminar on Non-Classical Logics, University of Barcelona, 30 April 2004).

Perfect and bipartite algebras in IMTL and in MTL (Seminar on Non-Classical Logics, University of Barcelona, 22 October 2004).

Perfect and bipartite algebras in IMTL and in MTL (Seminar of Applied Mathematical Logic, Institute of Computer Science of the Academy of Sciences of the Czech Republic, 3 November 2004).

On n-contractive fuzzy logics: first results (Seminar of Applied Mathematical Logic, Institute of Computer Science of the Academy of Sciences of the Czech Republic, 12 October 2005).

On weakly cancellative fuzzy logics (Seminar on Non-Classical Logics, University of Barcelona, 21 and 28 October 2005).

On n-contractive fuzzy logics (Institute für Algebra und Computermathematik, Technische Universität Wien, Austria, 23 November 2005).

The algebraic approach to Fuzzy Logic (Second Czech-Catalan Conference in Mathematics, Barcelona, September 2006).

On n-contractive fuzzy logics (Seminar on Non-Classical Logics, University of

Barcelona, 10 April 2007).

On completeness results for the expansions with truth-constants of propositional and first-order Weak Nilpotent Minimum logics (Seminar of Applied Mathematical Logic, Institute of Computer Science of the Academy of Sciences of the Czech Republic, 5 December 2007).

Expanding Leibniz hierarchy: implicational (semilinear) logics, (Seminar on Non-Classical Logics, University of Barcelona, 28 October 2008).

What is a fuzzy logic? (First meeting of the “Logical Models of Reasoning with Vague Information” project, IIIA – CSIC, Barcelona, 5 November 2008).

Studying logics around MTL (International Workshop on Mathematical Fuzzy Logic and Soft Computing, Barcelona, November 2008).

Arithmetical complexity of fuzzy logics over distinguished semantics (Seminar of Applied Mathematical Logic, Institute of Computer Science of the Academy of Sciences of the Czech Republic, 11 February 2009).

Expanding Leibniz hierarchy: implicational (semilinear) logics (Prague international seminar on semilinear logics, Institute of Computer Science of the Academy of Sciences of the Czech Republic, 24 February 2009).

A general theory of logics with implication (Seminar of Applied Mathematical Logic, Institute of Computer Science of the Academy of Sciences of the Czech Republic, 11 and 18 November 2009).

From fuzzy sets to mathematical fuzzy logic (Tenth International Conference on Fuzzy Set Theory and Applications FSTA 2010, Liptovský Jan, Slovakia, 2 February 2010).

First-order fuzzy logics: an introduction (Seminar on Non-Classical Logics, University of Barcelona, 19 and 26 March 2010).

General results on arithmetical complexity of first-order fuzzy logics (Workshop on fuzzy logics and non-classical logics, Research Institute for Mathematical Sciences, Kyoto University, Kyoto, Japan, 14 June 2010).

An introduction to Mathematical Fuzzy Logic (Institute of Applied Mathematics of Litoral IMAL – CONICET, Santa Fe, Argentina, 29 July 2011).

Fuzzy logics with hedges (Department of Computer Science, University of Buenos Aires, Argentina, 11 August 2011).

Deduction theorems and disjunctions in substructural logics (Department of Mathematics, National University of the South, Bahía Blanca, Argentina, 16 August 2011).

An introduction to Mathematical Fuzzy Logic (National University of Central Buenos Aires, Tandil, Argentina, 19 September 2011).

An abstract study of disjunction connectives in non-classical logics, Argentinian Mathematical Society meeting 2011 (San Miguel de Tucumán, Argentina, 20 – 23 September 2011).

Deduction theorem and proof by cases property in substructural logics (Seminar on Non-Classical Logics, University of Barcelona, 15 December 2011).

Invited participation in round tables:

Many-valued logics and mathematical fuzzy logics in Linz Seminar 2009 (Linz, Austria, 3 – 7 February 2009).

Contributed talks:

On definability of maximum in left-continuous t-norms, 3rd EUSFLAT (Zittau, Germany, September 2003) (joint work with F. Esteva and À. García-Cerdaña)

On Rational Gödel and Nilpotent Minimum Logics, Residuated Structures and Many-valued Logics (Patras, Greece, June 2004) (joint work with F. Esteva and L. Godo)*

Perfect and Bipartite IMTL-algebras and Disconnected Rotations of Basic Semihoops, Residuated Structures and Many-valued Logics (Patras, Greece, June 2004) (joint work with F. Esteva and J. Gispert)

On definability of additive connectives in fuzzy logics, IPMU 2004 (Perugia, Italy, July 2004) (joint work with F. Esteva and À. García-Cerdaña)

On Rational Gödel and Nilpotent Minimum Logics, IPMU 2004 (Perugia, Italy, July 2004) (joint work with F. Esteva and L. Godo)*

On Rational Weak Nilpotent Minimum Logics, ESTYLF 2004 (Jaén, Spain, September 2004) (joint work with F. Esteva and L. Godo)*

Recent advances in MTL and IMTL, The Logic of Soft Computing Workshop III, (Vienna, Austria, 2004) (joint work with F. Esteva and J. Gispert)*

On the variety of WNM-algebras, Algebraic and topological methods in non-classical logics II (Barcelona, June 2005) (joint work with F. Esteva and J. Gispert)

On product logic with truth-constants, Algebraic and topological methods in non-classical logics II (Barcelona, June 2005) (joint work with R. Cignoli, F. Esteva, L. Godo and P. Savicky)*

On varieties generated by Weak Nilpotent Minimum t-norms, 4th EUSFLAT (Barcelona, September 2005) (joint work with F. Esteva and J. Gispert)

On weakly cancellative fuzzy logics, The Logic of Soft Computing IV (Ostrava, Czech Republic, October 2005) (joint work with R. Horčík and F. Montagna)

Real, rational and finite-chain semantics for t-norm based logics: methods and algebraic equivalences, Ordered Structures in Many-valued Logic (Massa Lubrense, Italy, June 2006) (joint work with P. Cintula, F. Esteva, J. Gispert, L. Godo)

On n-contractive fuzzy logics: first results, IPMU 2006 (Paris, France, July 2006) (joint work with F. Esteva and J. Gispert)

Real, rational and finite chain semantics for fuzzy logics, The Logic of Soft Computing V (Málaga, Spain, September 2006) (joint work with F. Esteva and L. Godo)*

Real, rational and finite chain semantics for fuzzy logics, ESTYLF 2006 (Ciudad Real, Spain, September 2006) (joint work with F. Esteva and L. Godo)*

Algebraic characterization of completeness properties for core fuzzy logics I: propositional logics, Order, Algebra and Logic (Nashville, USA, June 2007) (joint work with P. Cintula, F. Esteva, J. Gispert, L. Godo and F. Montagna)

Algebraic characterization of completeness properties for core fuzzy logics II: predicate logics in Order, Algebra and Logic (Nashville, USA, June 2007) (joint work with P. Cintula, F. Esteva, J. Gispert, L. Godo and F. Montagna)*

On completeness results for the expansions with truth-constants of some predicate fuzzy logics, 5th EUSFLAT (Ostrava, Czech Republic, September 2007) (joint work with F. Esteva and L. Godo)

On real and rational completeness of some predicate fuzzy logics with truth-constants, Residuated Structures: Algebra and Logic (Buenos Aires, Argentina, April 2008) (joint work with F. Esteva and L. Godo)*

Implications and fuzzy logics, Residuated Structures: Algebra and Logic (Buenos Aires, Argentina, April 2008) (joint work with P. Cintula)*

A hierarchy of (fuzzy) implicative logics, 22nd International Symposium Logica 2008 (Hejnice, Czech Republic, June 2008) (joint work with P. Cintula)

Hierarchies of definable disjunctions and implications in non-classical logics, Sixth European Conference on Analytical Philosophy (Krakow, Poland, August 2008) (joint work with P. Cintula)

Rational completeness results for prominent propositional fuzzy logics with truth-constants, ESTYLF 2008 (Mieres, Spain, September 2008) (joint work with F. Esteva and L. Godo)*

On generalized continuous and left-continuous t-norms over chains: a survey, Linz Seminar 2009 (Linz, Austria, February 2009) (joint work with F. Esteva and L. Godo)

Semilinear logics, Shanks Workshop on Ordered Groups in Logic (Vanderbilt University, Nashville, USA, March 2009) (joint work with P. Cintula)*

Arithmetical hierarchy of fuzzy logics over rational and finite-chain semantics, TACL09 (Amsterdam, Netherlands, July 2009) (joint work with F. Montagna)

First-order (semilinear) implicational logics, TACL09 (Amsterdam, Netherlands, July 2009) (joint work with P. Cintula)*

An abstract approach to fuzzy logics: implicational semilinear logics, IFSA-EUSFLAT 2009 (Lisbon, Portugal, July 2009) (joint work with P. Cintula)

Logics with a (lattice) disjunction and their completeness properties, (Linz, Austria, February 2010) (joint work with P. Cintula)

A general approach to non-classical first-order logics, World Congress on Universal Logic III (Estoril, Portugal, April 2010) (joint work with P. Cintula)

Lattice disjunction is not a disjunction (in many substructural logics), Algebra and Substructural Logics ASubL4 (JAIST, Ishikawa, Japan, June 2010) (joint work with P. Cintula)*

First-Order Substructural Logics: an algebraic approach, Algebra and Substructural Logics ASubL4 (JAIST, Ishikawa, Japan, June 2010) (joint work with P. Cintula)

Implicational logics vs. order algebraizable logics, Logic, Algebra and Truth Degrees 2010 (Prague, Czech Republic, September 2010) (joint work with P. Cintula)

(Non-associative) Substructural Fuzzy Logics I: Propositional Logics, Algebraic Semantics for Uncertainty and Vagueness (Salerno, Italy, May 2011) (joint work with P. Cintula)

(Non-associative) Substructural Fuzzy Logics II: Predicate Logics, Algebraic Semantics for Uncertainty and Vagueness (Salerno, Italy, May 2011) (joint work with P. Cintula)*

The hierarchy of implicational and order algebraizable logics, Order, Algebra and Logics 2011 (Krakow, Poland, June 2011) (joint work with P. Cintula)

Generalized Disjunctions in (Infinitary) Structural Consequence Relations, Logic Colloquium 2011 (Barcelona, July 2011) (joint work with P. Cintula)*

Fuzzy logics with truth hedges revisited, EUSFLAT 2011 (Aix-Les-Bains, France, July 2011) (joint work with F. Esteva and L. Godo)

A new approach to fuzzy logics with truth stressers and depressers, 14th Congress of Logic, Methodology and Philosophy of Science (Nancy, France, July 2011) (joint work with F. Esteva and L. Godo)

Almost (MP)-based substructural logics, 5th Topology, Algebra, and Categories in Logic (Marseilles, France, July 2011) (joint work with P. Cintula)*

Equational Bases for Joins of Subvarieties of Algebras of Non-Classical Logics, Ordered groups and lattices in algebraic logic (Tbilisi, Georgia, September 2011) (joint work with P. Cintula)*

Almost (MP)-based substructural logics, 12th Asian Logic Conference (Wellington, New Zealand, December 2011) (joint work with P. Cintula)*

(Those talks marked with * were presented by another author of the corresponding paper)

Posters:

Involutive Fuzzy Logics (Setena Trobada Matemàtica, Barcelona, May 8, 2004)

Participation in conferences and workshops:

Third European Congress of Mathematics (Barcelona, July 2000).

First Workshop on the Foundations of Mathematics (Barcelona, July 2002).

Second Workshop on the Foundations of Mathematics (Barcelona, July 2003).

3rd EUSFLAT Conference (Zittau, Germany, September 2003).

Fourth Workshop on Soft Computing (Brno, Czech Republic, October 2003).

Setena Trobada Matemàtica (Barcelona, 8 May 2004).

Residuated Structures and Many-valued Logics (Patras, Greece, June 2004).

IPMU 2004 (Perugia, Italy, July 2004).

VRSR 2004 (Raspenava, Czech Republic, November 2004).

Algebraic and topological methods in non-classical logics II (Barcelona, June 2005).

4th EUSFLAT Conference (Barcelona, September 2005).

The Logic of Soft Computing IV (Ostrava, Czech Republic, October 2005).

Ordered Structures in Many-valued Logic (Massa Lubrense, Italy, June 2006).

IPMU 2006 (Paris, France, July 2006).

Uncertainty: Reasoning about probability and vagueness. Prague International Colloquium 2006 (Prague, Czech Republic, September 2006).

Second Czech-Catalan Conference in Mathematics (Barcelona, September 2006).

Order, Algebra and Logic (Nashville, USA, June 2007).

5th EUSFLAT Conference (Ostrava, Czech Republic, September 2007).

Non-classical Logics: from Foundations to Applications (Centro di Ricerca Matematica Ennio De Giorgio, Scuola Normale Superiore, Pisa, Italy, April 2008).

Logica 2008 (Hejnice, Czech Republic, 16 – 20 June 2008).

Sixth European Conference on Analytical Philosophy (Krakow, Poland, 21 – 26 August 2008).

Logic, Algebra and Truth Degrees (Siena, Italy, 8 – 11 September 2008).

First meeting of the “Logical Models of Reasoning with Vague Information” project, IIIA – CSIC (Barcelona, 5 November 2008).

International Workshop on Mathematical Fuzzy Logic and Soft Computing (Barcelona, 7 – 8 November 2008).

Linz Seminar 2009 (Linz, Austria, 3 – 7 February 2009).

Prague international seminar on semilinear logics (Institute of Computer Science of the Academy of Sciences of the Czech Republic, 24 February 2009).

TACL09 (Amsterdam, Netherlands, 7 – 11 July 2009).

IFSA-EUSFLAT 2009 (Lisbon, Portugal, 20 – 24 July 2009).

Logical Models of Reasoning with Vague Information (Cejkovice, Czech Republic, 14 – 17 September 2009).

Second Workshop on Vagueness and Metaphysics (Barcelona, 21 – 22 January 2010).

Tenth International Conference on Fuzzy Set Theory and Applications FSTA 2010 (Liptovský Jan, Slovakia, 1 – 5 February 2010).

The Beauty of Logic II (Prague, Czech Republic, 6 – 8 February 2010).

Linz Seminar 2010 (Linz, Austria, 9 – 13 February 2010).

World Congress on Universal Logic III (Estoril, Portugal, 22 – 25 April 2010).

IEEE International Symposium on Multiple-Valued Logic 2010 (Barcelona, 26 – 28 May 2010).

Algebra and Substructural Logics ASubL4 (JAIST, Ishikawa, Japan, 8 – 10 June 2010).

Workshop on fuzzy logics and non-classical logics (Kyoto, Japan, 14 June 2010).

Logic, Algebra and Truth Degrees 2010 (Prague, Czech Republic, 7 – 11 September 2010).

Epistemic aspects of Many-Valued Logic (Prague, Czech Republic, 13 – 16 September 2010).

Workshop on Dialogues, Inference, and Proof - Logical and Empirical Perspectives (Vienna, Austria, 26 – 28 November 2010).

Algebraic Semantics for Uncertainty and Vagueness (Salerno, Italy, 18 – 20 May 2011).

Order, Algebra and Logics 2011 (Krakow, Poland, 6 – 10 June 2011).

Logic Colloquium 2011 (Barcelona, 11 – 16 July 2011).

EUSFLAT 2011 (Aix-Les-Bains, France, 18 – 22 July 2011).

Logical Modelling: The interface between the formal and the empirical, LogICCC Symposium at the 14th Congress of Logic, Methodology and Philosophy of Science. (Nancy, France, 21 July 2011).

Argentinian Mathematical Society meeting 2011 (San Miguel de Tucumán, Argentina, 20 – 23 September 2011).

Second meeting on Artificial Intelligence and Quality of Life (Barcelona, 26 November 2011).

Visits to other institutions:

Institute of Computer Science of the Academy of Sciences of the Czech Republic (Prague, 19 – 31 October 2003).

Department of Computer Science and Mathematics, University of Salerno (February – April 2004).

Institute of Computer Science of the Academy of Sciences of the Czech Republic

(Prague, 25 October – 8 November 2004).

Institute of Computer Science of the Academy of Sciences of the Czech Republic
(Prague, 22 November – 4 December 2004).

Department of Mathematics and Computer Science, University of Siena (17 May – 15
July 2005).

Institute of Computer Science of the Academy of Sciences of the Czech Republic
(Prague, 11 – 14 October 2005).

Institute für Algebra und Computermathematik, Technische Universität Wien, Austria
(21 – 25 November 2005).

Institute of Computer Science of the Academy of Sciences of the Czech Republic
(Prague, 4 – 12 September 2006).

Institute of Computer Science of the Academy of Sciences of the Czech Republic
(Prague, 4 – 10 September 2007).

Institute of Computer Science of the Academy of Sciences of the Czech Republic
(Prague, 17 – 21 September 2007).

Institute of Computer Science of the Academy of Sciences of the Czech Republic
(Prague, 3 – 10 December 2007).

Institute of Computer Science of the Academy of Sciences of the Czech Republic
(Prague, 9 – 16 June 2008).

Institute of Computer Science of the Academy of Sciences of the Czech Republic
(Prague, 27 – 31 August 2008).

Institute of Computer Science of the Academy of Sciences of the Czech Republic
(Prague, 8 – 27 February 2009).

Institute of Computer Science of the Academy of Sciences of the Czech Republic
(Prague, 14 – 26 February 2010).

Research Institute for Mathematical Sciences, Kyoto University (Kyoto, Japan, 11 –
16 June 2010).

Institute of Computer Science of the Academy of Sciences of the Czech Republic
(Prague, 6 September – 3 October 2010).

Institute of Computer Science of the Academy of Sciences of the Czech Republic
(Prague, 25 May – 3 June 2011).

Institute of Applied Mathematics of Litoral IMAL – CONICET (Santa Fe, Argentina,

26 – 31 July 2011).

Department of Computer Science, University of Buenos Aires (Buenos Aires, Argentina, 26 July 2011 – 27 September 2011).

Department of Mathematics, National University of the South (Bahía Blanca, Argentina, 13 – 17 August 2011).

National University of Central Buenos Aires (Tandil, Argentina, 12 – 21 September 2011).

Institute for Computer Science, Vienna University of Technology, Vienna, Austria (26 October – 4 November 2011).

**Coordinator of the Working Group on Mathematical Fuzzy Logic
MATHFUZZLOG** (Since September 2007)

Member of the European Science Foundation Pool of Referees

Referee for the international journals:

Archive for Mathematical Logic

Computers and Mathematics with Applications

Fuzzy Sets and Systems

Information Sciences

International Journal of Approximate Reasoning

International Journal of Uncertainty, Fuzziness and Knowledge-based Systems

Journal of Applied Non-Classical Logics

Journal of Logic and Computation

Journal of Multiple-Valued Logic and Soft Computing

Kybernetika

Logic Journal of the IGPL

Logical Methods in Computer Science

Soft Computing – A Fusion of Foundations, Methodologies and Applications

Studia Logica

Referee for chapters in the following books:

Algebraic and Proof-theoretic Aspects of Non-classical Logics, Papers in Honor of Daniele Mundici on the Occasion of His 60th Birthday, Lecture Notes in Computer Science / Lecture Notes in Artificial Intelligence, 2007.

Witnessed years – a tribute to Petr Hájek, College Publications, 2009.

Understanding Vagueness – Logical, Philosophical, and Linguistic Perspectives, College Publications, 2011.

Handbook of Mathematical Fuzzy Logic – volume 1, College Publications, 2011.

Handbook of Mathematical Fuzzy Logic – volume 2, College Publications, 2011.

Referee for the international conferences:

EUSFLAT 2003

IPMU 2004

EUSFLAT 2005

IPMU 2006

IEEE International Symposium on Multiple-Valued Logic 2008

IPMU 2008

Logic, Algebra and Truth Degrees 2008

IFSA-EUSFLAT 2009

IEEE International Symposium on Multiple-Valued Logic 2010

IPMU 2010

Logic, Algebra and Truth Degrees 2010

Computer Science and Logic 2010

Foundations of Information and Knowledge Systems 2012

The 6th International Joint Conference on Automated Reasoning IJCAR 2012

Member of the evaluation committee of the Ph.D. theses:

- Àngel García-Cerdaña, *Triangular norm based logics: a contribution to the study of their substructural aspects*, University of Barcelona, 2007.

Member of the following scientific associations:

Association for Symbolic Logic

Catalan Association for Artificial Intelligence

Catalan Mathematical Society

European Society for Fuzzy Logic and Technology

Working group on Mathematical Fuzzy Logic

PUBLICATIONS:

Books:

C. NOGUERA. *Algebraic study of axiomatic extensions of triangular norm based fuzzy logics*, Monografies de l'Institut d'Investigació en Intel·ligència Artificial vol. 27, Bellaterra, 2007 (ISBN: 978-84-00-08538-4).

Chapters in books:

C. NOGUERA, F. ESTEVA, J. GISPERT. On n-contractive fuzzy logics: first results, *Uncertainty and Intelligent Information Systems*, B. Bouchon-Meunier, R.R. Yager, C. Marsala, and M. Rifqi (eds), World Scientific, 2008, pp 433 – 446 (ISBN: 978-981-279-234-1).

P. CINTULA, C. NOGUERA. A general framework for fuzzy logics. *Handbook of Mathematical Fuzzy Logic – volume 1*, Chapter II, Studies in Logic, vol. 37, College Publications, London, 2011.

P. HÁJEK, F. MONTAGNA, C. NOGUERA. Arithmetical complexity of first-order fuzzy logics. *Handbook of Mathematical Fuzzy Logic – volume 2*, Chapter XI, Studies in Logic, vol. 38, College Publications, London, 2011.

Edited volumes and special issues:

Logic, Algebra and Truth Degrees 2010 – volume of abstracts, Institute for Theoretical Computer Science Series, vol. 502, Prague, Czech Republic, 2010 (with Karel Chvalovský and Petr Cintula).

Special issue on Mathematical Fuzzy Logic, *Journal of Logic and Computation*, volume 21, issue 5, 2011 (with Petr Cintula and George Metcalfe).

Handbook of Mathematical Fuzzy Logic – Volume 1, Studies in Logic, vol. 37, College Publications, 2011. (ISBN: 978-1-84890-039-4) (with Petr Cintula and Petr Hájek).

Handbook of Mathematical Fuzzy Logic – Volume 2, Studies in Logic, vol. 38, College Publications, 2011. (ISBN: 978-1-84890-054-7) (with Petr Cintula and Petr Hájek).

Papers in journals:

À. GARCÍA-CERDAÑA, C. NOGUERA, F. ESTEVA. On the scope of some formulas defining additive connectives in fuzzy logics, *Fuzzy Sets and Systems* 154 (2005) 56 – 75.

C. NOGUERA, F. ESTEVA, J. GISPERT. Perfect and bipartite IMTL-algebras and

disconnected rotations of prelinear semihoops, *Archive for Mathematical logic* 44 (2005) 869 – 886.

C. NOGUERA, F. ESTEVA, J. GISPERT. On some varieties of MTL-algebras, *Logic Journal of the IGPL* 13 (2005) 443 – 466.

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