

UMBERTO RIVIECCIO

CURRICULUM VITAE

March 2014

CONTACT DETAILS

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POSITIONS

- 2013 - Postdoctoral at the Faculty of Technology, Policy and Management of Delft University of Technology.
Date of appointment: Since 1 November, 2013.
Salary: € 44100 per year.
Type: Full time.
Research within the NWO VIDI project *A mosaic of them all: logics for multi-agent interaction via duality and correspondence*. PhD students supervision and teaching at Delft University of Technology.
Notice period in current position: 3 months.
- 2011 - 2013 Marie Curie IEF Fellow at the School of Computer Science of the University of Birmingham (Edgbaston, Birmingham, B15 2TT, United Kingdom).
Date of appointment: Since 1 November, 2011.
Salary: £ 46469 per year.
Type: Full time.
Main duties and responsibilities: Research on a project developed autonomously and supported by the European Community.
- 2011 Postdoctoral researcher at Ono Lab, Research Center for Integrated Science, JAIST (Japan Advanced Institute of Science and Technology, 1-1 Asahidai, Nomi, Ishikawa, Japan).
Dates of appointment: 11 April 2011 – 7 October 2011.
Grade and salary: £ 37713 per year (Japanese wage plan rank 6).
Type: Full time.
Main duties and responsibilities: Research on a project developed autonomously and supported by the JAIST.

Visiting researcher at the School of Computer Science of the University of Birmingham (Birmingham, UK), within the *Bridging the gap* project (January to March).

EDUCATION

- 2014 Visiting at the Department of Mathematics, University of Johannesburg (South Africa), January-February.
- 2011 Visiting at the School of Computer Science, University of Birmingham (UK) within the *Bridging the Gap* scheme, grant EP/F033087/1 of the British *Engineering and Physical Sciences Research Council*, January – March.
- 2010 Ph.D. in *Philosophy*, University of Genoa (Italy), *Cognitive Science and Language* Program, University of Barcelona (Spain). Attended: 1 January 2007 – 31 December 2009. Date of award: 12 March 2010.
- PhD Advisors: Luisa Montecucco (University of Genoa) and Ramon Jansana (University of Barcelona)
Title of the Dissertation: *An algebraic study of bilattice-based logics*
- 2008 - 2009 Visiting at the Department of Logic, History and Philosophy of Science of the University of Barcelona (Spain), October 1 - June 30 and September 21 - December 21.
- 2008 AILA Logic Summer School, Gargnano del Garda (Italy), August 31 - September 6.
- 2007 - 2008 Visiting at the Department of Logic, History and Philosophy of Science of the University of Barcelona (Spain), September 15 - June 15.
- 2007 AILA Logic Summer School, Gargnano del Garda (Italy), August 26 - September 1.
- 2005 *Abilitazione SSIS*, Classe A037 (M.A. for teaching Philosophy and History in secondary education), University of Genoa (Italy). Attended: September 2003 – April 2005. Date of award: 12 May 2005. Final note: 79/80.
- 2003 *Laurea* (B.A. - M.A.) in *Philosophy*, University of Genoa (Italy). Attended: September 1998 – December 2002. Date of award: 15 January 2003. Final note: 110/110 *cum laude*.
- 1998 School-leaving Certificate in Scientific Studies, Recco (Italy), final note 60/60.

Reviewing work

Refereeing for the following journals: *Algebra Universalis*, *Studia Logica*, *Logic Journal of the IGPL*, *Philosophical Papers and Reviews*, *Soft Computing*, *Artificial Intelligence*, *Fuzzy Sets and Systems*, *Artificial Intelligence in Medicine*, *Siberian Electronic Mathematical Reports*, *Logica Universalis*, *Central European Journal of Mathematics*, *Australasian Journal of Logic*, *Bulletin of the Section of Logic*, and for *Zentralblatt MATH*.

Research grants held

- 2011 - 2013 Marie Curie IEF Fellowship, Seventh Framework Programme (FP7/2007-2013) under REA grant agreement PIEF-GA-2010-272737 (from November on).
- 2011 Ono Lab Postdoctoral fellowship granted by the JAIST, Japan Advanced Institute of Science and Technology, Nomi, Ishikawa, Japan (from April to October).
- London Mathematical Society *Computer Science Small Grants - Scheme 7 Grant* (supporting the research stay of Prof Ramon Janasana in Birmingham from January to February 2012).
- Bridging the Gap* grant EP/F033087/1 of the British *Engineering and Physical Sciences Research Council* (January to March).
- 2007 – 2009 Scholarship granted by the University of Genoa (Italy) for completing PhD studies.

PUBLICATIONS

- 201X (with Ramon Jansana) “Priestley duality for N_4 -lattices”, to appear in *Proceedings of the 8th conference of the European Society for Fuzzy Logic and Technology (EUSFLAT-2013)*.
- (with Ramon Jansana) “Dualities for modal N_4 -lattices”, to appear on the *Logic Journal of the IGPL*.
- “Implicative twist-structures”, *Algebra Universalis*, 2014, DOI 10.1007/s00012-014-0272-5.
- (with Hiroakira Ono) “Modal twist-structures over residuated lattices”, *Logic Journal of the IGPL*, 2013, DOI 10.1093/jigpal/jzt043.
- 2013 (with Félix Bou) “Bilattices with implications”, *Studia Logica*, 101, 4 (2013), p. 651-675.
- “Kripke semantics for modal bilattice logic” (extended abstract), *Proceedings of the 28th Annual ACM/IEEE Symposium on Logic in Computer Science*, IEEE Computer Society Press, p. 438-447, 2013.
- (with Andreas Pietz) “Nothing but the truth”, *Journal of Philosophical*

Logic, 42, 1 (2013), p. 125-135.

“Representation of interlaced trilattices”, *Journal of Applied Logic*, 11, 2 (2013), p. 174-189.

2012 “An infinity of super-Belnap logics”, *Journal of Applied Non-Classical Logics*, 22, 4 (2012), p. 319-335.

(with Achim Jung) “Priestley duality for bilattices”, *Studia Logica*, 100, 1-2 (2012), p. 223-252.

(with Ramon Jansana) “Residuuated bilattices”, *Soft Computing* 16 (3), 2012, p. 493-504.

2011 “Paraconsistent modal logics”, *Electronic Notes in Theoretical Computer Science*, 278 (2011), p. 173-186.

(with Félix Bou and Ramon Jansana) “Varieties of interlaced bilattices”, *Algebra Universalis*, 66 (1-2), p. 115-141.

(with Félix Bou) “The logic of distributive bilattices”, *Logic Journal of the IGPL*, 19 (1), 2011, p. 183-216.

2010 “A bilattice for contextual reasoning”, in M. D’Agostino, G. Giorello, F. Laudisa, T. Pievani, C. Sinigaglia (eds.), *SILFS New Essays in Logic and Philosophy of Science*, College Publications, London, p. 3-12.

2009 “What is abstract algebraic logic?”, *Epistemologia, Rivista italiana di Filosofia della Scienza*, XXXII (2009), p. 173-196.

2008 “Neutrosophic logics: prospects and problems”, *Fuzzy Sets and Systems*, vol. 159/14 (2008). p. 1860-1868.

2007 “Contextual bilattices”, *Proceedings of the the Doctoral Consortium of the Sixth International and Interdisciplinary Conference on Modelling and Using Context*, Roskilde University, Denmark, 20-24 August 2007.

2005 “Logiche polivalenti per l’Intelligenza Artificiale: il sistema di Ginsberg” (“Many-valued logics for Artificial Intelligence: Ginsberg’s system”, in Italian), *Epistemologia, Rivista italiana di Filosofia della Scienza*, XXVIII (2005), p. 25-44.

TEACHING ACTIVITIES

2014 Teaching assistant for the course “Information Technology and Values” taught by Prof David Koepsell at the Delft University of Technology (Spring 2014).

2013 Course on “From bilattices to d-frames” (jointly taught with Prof Achim Jung) at *ESSLLI 2013*, Düsseldorf (Germany), 5-9 August 2013.

Demonstrator for the course of “Models of computation” taught by Dr

Paul B. Levy at the University of Birmingham (Spring 2013).

- 2007 - 2008 Short course on “Non-euclidean geometries” within the undergraduate course in Philosophy of Science (Prof Luisa Montecucco), Facoltà di Lettere e Filosofia, Università di Genova; *laurea magistrale* in “Filosofia della Scienza” (Genoa, March 26, 27, 29 - 2008).
- 2006 - 2007 Short course on “Many-valued logics” within the undergraduate course in Mathematical Logic (Prof Dario Palladino), Facoltà di Lettere e Filosofia, Università di Genova; *laurea triennale* in “Filosofia” (Genoa, April 20, 27, May 11, 2007).
- Short course on “Logic and common sense” within the undergraduate course in Philosophy of Science (Prof Luisa Montecucco), Facoltà di Lettere e Filosofia, Università di Genova; *laurea magistrale* in “Metodologie filosofiche” (Genoa, March 16, 23, 28, 2007).
- 2005 - 2006 High School Teacher in Philosophy and History at Istituto Superiore Statale “A. Cairoli”, Pavia, Italy (February - July).

Subjects of interest: algebraic logic, non-classical logics, topological duality theory, lattice theory and universal algebra, modal logic, foundations of mathematics, philosophical logic, non monotonic logics, philosophy of mathematics, model theory, philosophy of science, philosophy of language.

CONFERENCES AND SEMINARS

- 2014 “Kripke semantics and duality for bilattice modal logic”, *Logic and Algebra Day*, University of Johannesburg (South Africa), 24 January.
- 2013 “Priestley duality for N_4 -lattices”, *Eight conference of the European Society for Fuzzy Logic and Technology (EUSFLAT-2013)*, Milan (Italy), 12 September.
- “Priestley duality for (modal) N_4 -lattices”, *Sixth International Conference on Topology, Algebra, and Categories in Logic (TACL 2011)*, Nashville (USA), 30 July.
- “Four-valued modal logic: Kripke semantics and duality”, *Sixth International Conference on Topology, Algebra, and Categories in Logic (TACL 2011)*, Nashville (USA), 30 July.
- “On the minimum four-valued modal logic over the Belnap lattice”, *Non-classical Logics Seminar*, University of Barcelona, Barcelona (Spain), 22 May.
- “On extensions of the Belnap-Dunn logic”, *UNILOG 2013, 4th World Congress and School on Universal Logic*, Rio de Janeiro (Brazil), 5 April.
- 2012 “Implicative twist-structures”, *Logic, Algebra and Truth Degrees 2012*, Kanazawa (Japan), 10-14 September.

“Logics for partial and inconsistent information”, 15th Wessex Theory Seminar, University of Birmingham, Birmingham (UK), 19 July.

“Implicative twist-structures”, Workshop 1 on *Duality Theory in Algebra, Logic and Computer Science*, University of Oxford, Oxford (UK), 14 June.

“Twist-structures over residuated lattices”, *Trends in Logic XI, Studia Logica International Conference*, Bochum, Germany, 5 June.

“Bilattices with modal operators”, *Algebra|Coalgebra Seminar*, Institute for Logic, Language & Computation, University of Amsterdam, Amsterdam (Netherlands), 30 May.

“Bilattices with modal operators”, *CLOG Seminar*, University of Leicester, Leicester (UK), 23 February.

2011

“Interlaced bilattices”, *Analytic Topology in Mathematics and Computer Science Seminar*, University of Oxford, Oxford (UK), 30 November.

“Paraconsistent modal logics”, *Methods for Modalities 7*, Osuna (Spain), 10 November.

“Twist-structures over residuated lattices”, *Seminari de Lògiques No Clàssiques*, University of Barcelona, Barcelona (Spain), 14 October.

“Twist-structures over residuated lattices”, *Logic Seminar*, Research Center for Integrated Science, JAIST (Japan), 29 September.

“Twist-structures and modal logic”, *Logic Seminar*, Research Center for Integrated Science, JAIST (Japan), 30 June.

“Priestley Duality for Bilattices”, *Fifth International Conference on Topology, Algebra, and Categories in Logic (TACL 2011)*, Marseilles, 29 July.

“Nothing but the Truth”, *Seminario dottorandi*, University of Genoa, Genoa, 21 July.

“Extensions of the Belnap-Dunn logic”, *ACAN Workshop (Algebraic and Coalgebraic Approaches to Non-Classical Logics)*, University of Kyoto, Kyoto (Japan), 17 May.

“Extensions of the Belnap-Dunn logic”, *Logic Seminar*, Research Center for Integrated Science, JAIST (Japan), 12 May.

“Priestley duality for bilattices”, *Theory Mathematical Lunch*, University of Birmingham, Birmingham (UK), 18-25 February, 4 March.

2010

“Extensions of the Belnap-Dunn logic”, *Non-classical Logics Seminar*,

University of Barcelona, Barcelona (Spain), 11 November.

“Varieties of Interlaced Bilattices”, *Logic, Algebra and Truth Degrees 2010*, Prague (Czech Republic), 7-11 September.

“Bilattices: an algebraic (logic) perspective”, *School of Computer Science Seminar*, University of Birmingham, Birmingham (UK), 2 July.

“On the Representation of Interlaced Bilattices”, *CLOG Seminar*, University of Leicester, Leicester (UK), 1 July.

“Varieties of Interlaced Bilattices”, *Seminari de Lògiques No Clàssiques*, University of Barcelona, Barcelona (Spain), 19 May.

“Implicative Bilattices”, *UNILOG 2010, 3rd World Congress and School on Universal Logic*, Lisbon (Portugal), 24 April.

2009 “Logical Bilattices: Adding Implications”, *Seminari de Lògiques No Clàssiques*, University of Barcelona, Barcelona (Spain), 11 June.

2008 “Logical Bilattices”, *Logic, Algebra and Truth Degrees 2008*, Siena (Italy), 8-11 September.

“Bilattices for Contextual Reasoning”, *Meeting n. 2 GESCO* (GENOVA Scienze COgnitive), Genoa (Italy), 1 July.

“Logiche polivalenti”, *Seminario congiunto SUM – Coordinamento Nazionale Dottorati di Ricerca in Filosofia*, Firenze (Italy), 12 June.

“The Logic of Logical Bilattices”, *Seminari de Lògiques No Clàssiques*, University of Barcelona, Barcelona (Spain), 3 June.

“Neutrosophic Logics”, *Logos Graduate Reading Group*, University of Barcelona, Barcelona (Spain), 15 - 22 April.

“Logical bilattices”, *XXIII Incontro di Logica, Associazione Italiana di Logica e sue Applicazioni*, Genoa (Italy), 20-23 February.

2007 “A bilattice for contextual reasoning”, *SILFS International Conference 2007*, Milano (Italy), 8 October.

“Un approccio uniforme all’inferenza in Intelligenza Artificiale”, *Meeting n. 1 GESCO* (GENOVA Scienze COgnitive), Genoa (Italy), 12 June.

LANGUAGES

Italian (native speaker), English (excellent), Spanish (excellent), French (basic conversational skill), Catalan (basic conversational skill), Dutch (basic conversational skill), Japanese (basic conversational skill).