

Curriculum Vitae of Catharina Maria (Marijke) Keet

May 31, 2010

Current position

Assistant Professor (temporary research contract “ricercatore a tempo determinato”)
KRDB Research Centre
Free University of Bozen-Bolzano
Piazza Domenicani 3
39100 Bolzano, Italy

Personal Particulars

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| Surname | Keet |
| Names | Catharina Maria (Marijke) |
| Email | keet at inf.unibz.it / marijke at meteck.org |
| Homepage | http://www.meteck.org |
| Date of birth | 8 December 1973 |
| Nationality | EU citizen |

Education

- PhD Computer Science (INF/01)** *KRDB Research Centre, Faculty of Computer Science, Free University of Bozen-Bolzano, Italy. Thesis: “A Formal Theory of Granularity”. 1-’05/12-’07 and defended in public on 28-4-2008.*
- Research student** *Database and Object Systems Group, School of Computing, Napier University, Edinburgh, Scotland, 10-’03/9-’04. Research focus: development and integration of (bio/eco-) ontologies. Included a visit to the Laboratory of Applied Ontology (LOA-CNR), Trento, Italy (funded by the LOA); Research focus: the ecological niche, 3-’04/6-’04.*
- BSc(Hons.) IT and Computing** *Department of Mathematics and Computing, Open University UK, 2-’01/3-’04. Graduated with 1st Class distinction. Thesis topic: conceptual modelling (ER and ORM) and design of an applied microbiology relational database.*
- MA Peace & Development Studies** *Department of Government and Society, University of Limerick, Ireland, 9-’02/12-’03. Graduated with a 1st class Honours. Dissertation topic: Terrorism and Game Theory.*
- MSc Microbiology** *Wageningen University and Research centre, the Netherlands, 9-’92/1-’98. Full title of the degree: ‘MSc Food Science, free specialisation’. Areas of the three theses: food microbiology, molecular ecology of microorganisms, applied philosophy. Graduated: 1-’98.*

Vocational training

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| Associate Diploma Course Design | Portobello School Dublin/Rhodes International, 2-'00/11-'00. Portobello School Diploma in Interior Design Studies: distinction. Rhodes certification: distinction. |
| ASE LAN | Accredited Systems Engineer Local Area networks, Compaq, Dublin. Certified in 1-'00. |
| ASE NT | Accredited Systems Engineer NT and Accredited Compaq Technician (Desktop & Notebook + Server), Compaq, Dublin. Certified in 10-'99. |
| ITIL | Foundation Certificate in IT Service Management, Stichting Exin, Utrecht, the Netherlands, 6-'99. |
| MCSE | Full-time international course Microsoft Certified Systems Engineer at the Computerij Onderwijs B.V., Enschede, the Netherlands, 5-'98/9-'98. Electives: TCP/IP and Exchange Server 5.0. Certified in 9-'98. |
| Other courses | Fibre Channel, comprehensive introduction to FC, in-depth AL and in-depth fabric, Solution Technology, Dublin, 2-'01; WAN technologies, Compaq, Dublin, 4-'00; Fibre Channel/Clustering Solutions Course, Compaq, Dublin, 3-'00; Unix systems management &-concepts, AT Computing, Utrecht, the Netherlands, 7-'99; Unix introduction and administration, AT Computing, Utrecht, the Netherlands, 4-'99. |
| Preparatory Scientific Education | VWO, Strabrecht College Geldrop, the Netherlands, 9-'86/6-'92. Graduated: 6-'92. |

Employment and work experience

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| Assistant Professor | Ricercatore a Tempo Determinato, <i>KRDB Research Centre, Free University of Bozen-Bolzano, Italy</i> , 2-'08/present. Activities: (i) investigation into logic-based knowledge representation in the scope of the Semantic Web focussed on bio-ontologies, granularity, conceptual modelling, and realisation of Ontology-Based Data Access; (ii) teaching, such as MSc course development and teaching, student supervision, and tutorials at summer schools; (iii) organisational activities, including coordinator KRDB seminars, reviewing, and exam committee memberships; (iv) initiation, coordination and research of the project to realise OBDA for horizontal gene transfer. |
| Research Assistant | CoCoCo/CoCoPro, <i>KRDB Research Centre, Free University of Bozen-Bolzano, Italy</i> , 10-'04/12-'04, 5-'05, 3-'06, and 1-'08. Activities: investigation into logic-based knowledge representation in the scope of the Semantic Web, focussed on bio-ontologies. |
| Systems Engineer | Employee <i>Eurologic Systems, Dublin, Ireland</i> , 6-'00/1-'02. |

7-'01/1-'02: Systems Integration Test Engineer, R&D department. Activities: Developing and implementing test plans for the integration testing of the 2 Gb Storage solutions (RAID in SAN/NAS), contributed to bug resolution. Contributed to the phase 1 and 2 exits of the iSCSI converter development. Involvement in the customisation and support (including providing training at engineering level) for one of the major OEMs.

6-'00/6-'01: Systems Qualification Engineer. Activities: Developing and implementing qualification test plans for the integration testing of the 1 Gb Fibre Channel storage solutions (firmware and software focussed on the RAID solutions). Contributed to bug resolution by interacting with our Product Development Departments (R&D) and suppliers. Configurations includes SANs, NAS and operating systems NT, Win2k, Red Hat Linux and NetWare. Use of in-house and proprietary analysis & debugging tools and management software.

Enterprise Support Engineer

In the German Enterprise Team, *Compaq Computer Corporation EMEA*, Dublin, Ireland, 8-'99/5-'00.

Activities: Troubleshooting problems and providing solutions for large business environments. Development and maintenance of the intranet-site of Engineering Support and EMEA Enterprise Support, and Minilab manager Enterprise level (a.o. structuring the lab resources, hard- and software installations).

Network Administrator

Employee *Brunel IT*, Amersfoort, the Netherlands, 11-'98/7-'99. Outsourcing projects:

2-'99/7-'99: Project Employee Network dept./IT Support, Centraal Beheer, the Netherlands. Activities: Co-organization of the Electronic Software Distribution (ESD)-project via Tivoli, installation of its test environment and performance analysis ESD environment. Process development for implementing applications, problem analysis of the Helpdesk.

11-'98/1-'99: OS/2 LANManager, Centraal Beheer, the Netherlands. Activities: Rearranging and structuring the file servers and setting up structured Access databases, conducted research w.r.t. domain separation.

Project researcher

Food science/human physiology at the *Centro Internacional de la Papa (CIP)* in Lima, Peru, 7-'96/1-'97.

Activities: developed and implemented test protocols for the in vitro digestibility of sweet potato, organizing laboratory rooms, lab equipment and chemicals.

Publications

Book chapters

1. Keet, C.M. A top-level categorization of types of granularity. In: *Novel Developments in Granular Computing: Applications for Advanced Human Reasoning and Soft Computation*. JingTao Yao (Ed.). IGI Global. (invited book chapter, in print). 2010.

2. Artale, A. and Keet, C.M. Essential, mandatory, and shared parts in conceptual data models. In: *Innovations in Information Systems modeling: Methods and Best Practices*. IGI Global, Advances in Database Research Series, Halpin, T.A., Proper, H.A., Krogstie, J. (Eds.). 2008. pp17-52.

Journal articles

1. Keet, C.M. Dependencies between Ontology Design Parameters. *International Journal of Metadata, Semantics and Ontologies*. (in print)
2. Keet, C.M., Artale, A. Representing and Reasoning over a Taxonomy of Part-Whole Relations. *Applied Ontology – Special Issue on Ontological Foundations for Conceptual Models*, 2008, **3**(1-2): 91-110.
3. Keet, C.M. Biological Data and Conceptual Modelling Methods. *Journal of Conceptual Modeling*, Issue **29**, October 2003.
4. Keet, C.M. Democracy in the European Union. *UL Perspectives, Journal of Political Studies*, 2003, **2**: 71-80.

International Conference and Workshop papers

1. Keet, C.M. Ontology engineering with rough concepts and instances. *17th International Conference on Knowledge Engineering and Knowledge Management (EKAW'10)*. 11-15 October 2010, Lisbon, Portugal. Springer Lecture Notes in Computer Science LNCS.
2. Keet, C.M. On the feasibility of Description Logic knowledge bases with rough concepts and vague instances. *23rd International Workshop on Description Logics (DL'10)*, 4-7 May 2010, Waterloo, Canada. pp314-324.
3. Calvanese, D., Keet, C.M., Nutt, W., Rodríguez-Muro, M., Stefanoni, G. Web-based Graphical Querying of Databases through an Ontology: the WONDER System. *ACM Symposium on Applied Computing (ACM SAC 2010)*, March 22-26 2010, Sierre, Switzerland. pp 1389-1396.
4. Keet, C.M. Positionalism of relations and its consequences for fact-oriented modelling. *International Workshop on Fact-Oriented Modeling (ORM'09)*, Vilamoura, Portugal, November 4-6, 2009. Meersman, R., Herrero, P., and Dillon T. (Eds.), *OTM Workshops*, Springer, Lecture Notes in Computer Science LNCS **5872**, 735-744.
5. Calbimonte, J.-P., Porto, F., and Keet, C.M. Functional dependencies in OWL ABoxes. *XXIV Brazilian Symposium on Databases (SBBD'09)*, Fortaleza, Brazil, 5-9 Oct, 2009. ACM SIGMOD's Digital Symposium Collection, 16-30.
6. Keet, C.M. Constraints for representing transforming entities in bio-ontologies. *11th Congress of the Italian Association for Artificial Intelligence (AI*IA 2009)*. R. Serra and R. Cucchiara (Eds.), Reggio Emilia, Italy, Dec. 9-12, 2009. Springer-Verlag Lecture Notes in Artificial Intelligence LNAI **5883**, 11-20.
7. Keet, C.M. From granulation hierarchy to granular perspective. *IEEE International Conference on Granular Computing (GrC'09)*, Nanchang, China, August 17-19, 2009. IEEE Computer Society, pp306-311.
8. Keet, C.M. Ontology design parameters for aligning agri-informatics with the Semantic Web. *3rd International Conference on Metadata and Semantics (MTSR'09) – Special Track on Agriculture, Food & Environment*, Sept 3 - Oct 2 2009 Milan, Italy. F. Sartori, M.Á. Sicilia, and N. Manouselis (Eds.), Springer Communications in Computer and Information Science **CCIS 46**, 239-244.
9. Keet, C.M. Basic modelling choices to add roughness to granular levels. *First International Workshop on Rough Sets Theory (RST09)*. 25-27 May 2009, Milan, Italy. [abstract]
10. Keet, C.M. Structuring GIS information with types of granularity: a case study. *VI International Conference on Geomatics*, 10-12 February 2009, Havana, Cuba.
11. Keet, C.M., Alberts, R., Gerber, A., Chimamiwa, G. Enhancing web portals with Onto-

- logy-Based Data Access: the case study of South Africa's Accessibility Portal for people with disabilities. *Fifth International Workshop OWL: Experiences and Directions (OWLED 2008)*, 26-27 Oct. 2008, Karlsruhe, Germany.
12. Artale, A., Guarino, N., and Keet, C.M. Formalising temporal constraints on part-whole relations. *11th International Conference on Principles of Knowledge Representation and Reasoning (KR'08)*. Gerhard Brewka, Jerome Lang (Eds.) AAAI Press, pp 673-683. Sydney, Australia, September 16-19, 2008.
 13. Keet, C.M. Toward cross-granular querying over modularized ontologies. *International Workshop on Ontologies: Reasoning and Modularity (WORM'08)*. 2 June 2008, Tenerife, Spain. CEUR-WS Vol-348, 6-17.
 14. Keet, C.M. Unifying industry-grade class-based conceptual data modeling languages with *CM.com*. *21st International Workshop on Description Logics (DL'08)*, 13-16 May 2008, Dresden, Germany. CEUR-WS, Vol-353. 11p.
 15. Artale, A., Keet, C.M. Essential and mandatory part-whole relations in conceptual data models. *21st International Workshop on Description Logics (DL'08)*. 13-16 May 2008, Dresden, Germany. CEUR-WS, Vol-353. 11p.
 16. Keet, C.M. A formal comparison of conceptual data modeling languages. *13th International Workshop on Exploring Modeling Methods in Systems Analysis and Design (EMMSAD'08)*. 16-17 June 2008, Montpellier, France. CEUR-WS, Vol-337, 25-39.
 17. Keet, C.M. Granulation with indistinguishability, equivalence or similarity. *IEEE International Conference on Granular Computing (GrC'07)*, San Francisco, November 2-4, 2007. IEEE Computer Society, 11-16.
 18. Tziviskou, C., Keet, C.M. A Meta-Model for Ontologies with ORM2. Third International Workshop on Object-Role Modelling (ORM'07), Algarve, Portugal, Nov 25-26, 2007. In: *OTM Workshops 2007*. Meersman, R., Tari, Z, Herrero, P. et al (Eds.), Lecture Notes in Computer Science LNCS 4805, 624-633.
 19. Keet, C.M. Enhancing comprehension of ontologies and conceptual models through abstractions. *10th Congress of the Italian Association for Artificial Intelligence (AI*IA 2007)*, Rome, September 10-13, 2007. Basili, R., Paziienza, M.T. (Eds.), Springer-Verlag Lecture Notes in Artificial Intelligence LNAI 4733, 814-822.
 20. Keet, C.M. Prospects for and issues with mapping the Object-Role Modeling language into *DL_Rifd*. *20th International Workshop on Description Logics (DL'07)*, 8-10 June 2007, Bressanone, Italy. CEUR-WS Vol 250, 331-338.
 21. Keet, C.M., Rodríguez, M. Toward using biomedical ontologies: trade-offs between ontology languages. *AAAI 2007 Workshop Semantic eScience (SeS'07)*, 23 July 2007, Vancouver. AAAI Technical Report WS-07-11, 65-68.
 22. Keet, C.M., Roos, M., Marshall, M.S. A survey of requirements for automated reasoning services for bio-ontologies in OWL. *Third international Workshop OWL: Experiences and Directions (OWLED 2007)*, 6-7 June 2007, Innsbruck, Austria. CEUR-WS Vol-258. 10p.
 23. Keet, C.M. Part-whole relations in Object-Role Models. 2nd International Workshop on Object-Role Modelling (ORM'06), Montpellier, France, Nov 2-3, 2006. In: *OTM Workshops 2006*. Meersman, R., Tari, Z., Herrero., P. et al. (Eds.), Lecture Notes in Computer Science LNCS 4278. Berlin: Springer-Verlag, 2006, 1118-1127.
 24. Keet, C.M. A taxonomy of types of granularity. *IEEE International Conference on Granular Computing (GrC'06)*, Atlanta, USA, May 10-12 2006. IEEE Computer Society, 106-111.
 25. Keet, C.M. Representations of the ecological niche. *Third International Workshop on Philosophy and Informatics (WSPi2006)*, Saarbrücken, Germany. 3-4 May 2006. Johansson, I., Klein, B., Roth-Berghofer, T. (Eds.), IFOMIS Reports (ISSN 1611-4019), 2006, 14, 75-88.
 26. Keet, C.M. Enhancing biological information systems with granularity. *Knowledge-Web PhD Symposium (KWEPSY06)*, Budva, Montenegro, 17 June 2006. 6p.
 27. Keet, C.M. Using abstractions to facilitate management of large ORM models and on-

- tologies. International Workshop on Object-Role Modeling (ORM'05). Cyprus, 3-4 November 2005. In: *OTM Workshops 2005*. Halpin, T., Meersman, R. (eds.), Lecture Notes in Computer Science LNCS 3762. Berlin: Springer-Verlag, 2005, 603-612.
28. Keet, C.M. Factors affecting ontology development in ecology. *Data Integration in the Life Sciences 2005 (DILS'05)*, Ludäscher, B, Raschid, L. (eds.). San Diego, USA, 20-22 July 2005. Lecture Notes in Bioinformatics LNBI 3615, Springer Verlag, 2005, 46-62.
 29. Keet, C.M., Kumar, A. Applying partitions to infectious diseases. XIX International Congress of the European Federation for Medical Informatics (MIE 2005). Geneva, Switzerland, 28-31 August, 2005. In: *Connecting Medical Informatics and bioinformatics*, Engelbrecht, R., Geissbuhler, A., Lovis, C. Mihalas, G. (eds.). Amsterdam: IOS Press, 2005, 1236-1241.
 30. Keet, C.M. Conceptual Modelling and Ontologies for Biology: experiences with the bacteriocin database. *Agropecuaria Conference (Interjoven '04)*. 3-6 June 2004, San José de las Lajas, Cuba.

Symposia, seminar & working papers

1. Keet, C.M. Games tegen terrorisme en voor conflictoplossing. *Vredesterts*, April 2009, issue 49.
2. Keet, C.M. *Introduction to part-whole relations: mereology, conceptual modelling and mathematical aspects*. KRDB Research Centre Technical Report KRDB06-3, Faculty of Computer Science, Free University of Bozen-Bolzano, Italy. 2-10-2006. 32p.
3. Keet, C.M. *Granular information retrieval from the Gene Ontology and from the Foundational Model of Anatomy with OQAFMA*. KRDB Research Centre Technical Report KRDB06-1, Free University of Bozen-Bolzano, 6 April 2006. / SBIOLBD 2006 extended abstract. 7p.
4. Keet, C.M. Current characteristics and historical perspective of Computer Science and IT with/for biology. *CSBio Reader: extended abstracts of the 'CS&IT with/for biology' Seminar Series*, Free University of Bozen-Bolzano, 2005, 1-8.
5. Keet, C.M. *Towards a resolution of terrorism using game theory - coalitions, negotiations and audience costs*. Dept of Politics and Public Admin Working Papers, University of Limerick. Number 1, December 2003. 29p.

Selected Technical Reports

1. R. Alberts, D. Calvanese, G. De Giacomo, A. Gerber, M. Horridge, A. Kaplunova, C. Maria Keet, D. Lembo, M. Lenzerini, M. Milicic, R. Moeller, M. Rodriguez-Muro, R. Rosati, U. Sattler, B. Suntisrivaraporn, G. Stefanoni, A.-Y. Turhan, S. Wandelt, M. Wessel. *Analysis of Test Results on Usage Scenarios*. Deliverable TONES-D27 v1.0, Oct. 10 2008.
2. Keet, C.M. *Mapping the Object-Role Modeling language ORM2 into Description Logic language \mathcal{DLR}_{ifd}* . KRDB Research Centre Technical Report KRDB07-2, Free University of Bozen-Bolzano, 15-2-2006. <http://arxiv.org/abs/cs.LO/0702089v2>. 21p.
3. Jarrar, M., Keet, C.M., Dongilli, P. *Multilingual verbalization of ORM conceptual models and axiomatized ontologies*. STARLab Technical Report, Vrije Universiteit Brussel. February 2006.
4. Keet, C.M. *Aspects of Ontology Integration*. Technical Report, Napier University, Edinburgh, Scotland. 2004.
5. Keet, C.M. *In vitro digestibility of weaning food based on sweet potato (products)*. Centro Internacional de la Papa (International Potato Centre), Lima, Peru. 1997.

Reviews

1. Keet, C.M. 2009. Dirty wars, databases, and indices. *Peace & Conflict Review*, 4(1):75-78.

2. Keet, C.M. 2008. Book review of "The changing dynamic of Cuban Civil Society" by Gray and Kapcia. *Latin American Politics and Society*, **50**(4): 189-192.

Editing

1. Keet, C.M. (ed.). 2010. *The nonviolent personality*. (forthcoming in 2010)
2. Keet, C.M., Franconi, E. (eds.). *CSBio reader: extended abstracts of the 'CS&IT with/for biology' Seminar Series*. Free University of Bozen-Bolzano, 2005.

Theses

1. Keet, C.M. *A Formal Theory of Granularity*. PhD Thesis, KRDB Research Centre, Faculty of Computer Science, Free University of Bozen-Bolzano, Italy. 2008.
2. Keet, C.M. *Bacteria and bacteriocins in the food industry - modelled and documented in a relational database*. BSc (hons) thesis, Department of Computing, Faculty of Mathematics and Computing, Open University UK. 2004.
3. Keet, C.M. *Terrorism and Game Theory - coalitions, negotiations and audience costs*. MA Thesis, Department of Government and Society, University of Limerick, Ireland. 2003.
4. Keet, C.M. *Effect of maize rhizosphere on degradation of 3-chlorobenzoate by Pseudomonas B13 or Alcaligenes L6*. MSc Thesis, Department of Microbiology (Molecular Ecology Group), Wageningen University and Research Centre, the Netherlands. 1998.
5. Keet, C.M. *Acceptance of genetically modified microorganism on the basis of different points of view of life [Akseptatie van genetisch gemodificeerde mikro-organismen op basis van verschillende levensbeschouwingen]*. MSc Thesis, Department of Applied Philosophy, Wageningen University and Research Centre, the Netherlands. 1997.
6. Keet, C.M. *Microbial cyanide assimilation on behalf of detoxification of cyanogen glycosides [Mikrobiële cyanide-assimilatie t.b.v. ontgiftiging van cyanogene glykosiden]*. MSc Thesis, Department of Food Science (Section Food Microbiology), Wageningen University and Research Centre, the Netherlands. 1996.

Translation

1. *The nonviolent personality*. (forthcoming in 2010). Translated from the Italian original *La personalità nonviolenta* written by Giuliano Pontara.

Teaching, Seminars, and Presentations

Teaching and thesis supervision

- Course: Introduction to ontology engineering, with emphasis on Semantic Web Technologies as part of the Masters Ontology Winter School 2010, 16-30 July, Meraka Institute, South Africa; Lecturer; includes course development and teaching (15+7 hours lectures and labs).
- Course: Introduction to Ontology Engineering: Foundations and applications, 5-15 July 2010, Universidad de Ciencias Informáticas, Cuba; Lecturer; includes course development and teaching (20+10 hours lectures and labs).
- Course: Comprehensive introduction to ontology engineering, 5-16 April 2010, MSc-level, Universidad de la Habana, Cuba; Lecturer; includes course development and teaching (20+10 hours lectures and labs).
- Course: Semantic Web Technologies part 2, 2009/2010, MSc-level, 4 ECTS, FUB; Lecturer; includes course development and teaching.
- Course: Logic, 2007/2008, BSc-level, 4 ECTS, FUB; Teaching Assistant.
- Student supervision: several BSc projects & internships, with application-focussed topics in game theory and in realising OBDA.

- Tutorial: Representing and reasoning over a taxonomy of part-whole relations. Mini Ontology Winter School (MOWS 2008), Knowledge System Group, Meraka Institute, 1-11 July 2008, Pretoria, South Africa.
- Tutorial: Semantic Web for the Life Sciences. Tutorial d.d. 23-5-2007 as part of the course 'Semantic Web Technologies' (course code: 70175, MSc-level), Free University of Bozen-Bolzano, Italy.
- Tutorial: Introduction to part-whole relations: mereology, conceptual modelling and mathematical aspects. Tutorial given on 23-10-2006 at the KRDB Research Centre, Free University of Bozen-Bolzano, Italy.
- Examinations: Member FUB CS PhD Committee (Collegio di Docenti), '08/present.
- Examinations: Member FUB Examination Commission BSc and MSc degrees in Computer Science, 2008/2009.
- Examinations: External Examiner (MSc thesis), LBD EPFL, Switzerland. 2007.

Invited talks

- Temporal Constraints on Part-Whole Relations. Universidad de Ciencias Informáticas, La Habana, Cuba, 20 April 2010.
- Desarrollo de ontologías como un nivel de abstracción de las bases de datos relacionales. Department of Informatics, Universidad de la Habana, Cuba, 19 April 2010.
- Representing and Reasoning over a Taxonomy of Part-Whole Relations. 10 September 2009, DERI Galway, Ireland.
- Specifying and coordinating abstractions by taking advantage of granularity. Complex Systems & Artificial Intelligence Research Centre, DISCo, University of Milano-Bicocca, 28 April 2009, Milan, Italy.
- Games tegen terrorisme en voor conflict-oplossing—Speltheoretische onderhandelingen met coalities van gekwetste groepen en de regering. Gaming for War or Peace: ICT voor Wereldvrede Symposium, Stichting Vredescentrum Eindhoven (Peace Center Eindhoven), 4 November 2008, Eindhoven, the Netherlands.
- A theory of granularity. Agromatica, Instituto de Ciencia Animal, 21 May 2008, San José de las Lajas, Habana, Cuba.
- On modelling and formally representing granularity. Fondazione Bruno Kessler (ITC-IRST), 3 December 2007, Trento, Italy.
- Europeanization of education. International Workshop on the Impact of EU Education Policy and Educational System Reforms on Youth and Society, 29/30 March 2006, Brussels, Belgium. *keynote speech*
- Using bio-ontologies in RDBMSs for querying granular information. Bioinformatics, Ontologies and databases Seminar day 13-2-2006 (SBIOLBD'06), LBD, EPFL, Lausanne, Switzerland.
- Data and ontology integration issues in the biosciences. Seminar given on 23-8-2004 at the Micro-Array Department, Integrative Bioinformatics Unit, University of Amsterdam, The Netherlands.

Other talks (selection)

- Relation Migration. KRDB Lunch Seminar, d.d. 15 June 2010.
- Comparing and unifying industry-grade conceptual data modelling languages. KRDB Lunch Seminar, d.d. 2 December 2008.
- A formal comparison of conceptual data modeling languages—A prelude to intelligent CASE tools. Seminar given on July 17, 2008, at the KSG group, Meraka Institute, Pretoria, South Africa.
- Ontological and logical aspects of part-whole relations. KRDB Lunch Seminar series, Spring 2008.

- Current characteristics and historical perspective on 'CS and IT with/for Biology'. Presentation given on 20-10-2005 at the KRDB Research Centre, Free University of Bozen-Bolzano, Italy.
- ORM introduction. Seminar given on 27-4-2004 at the Laboratory of Applied Ontology, Trento, and Free University Bolzano/Bozen, Italy.
- Presentation of accepted papers at conferences and workshops: Interjoven04, MIE05, DILS05, ORM05, KWEPY06, WSPI06, GrC06, ORM06, OWLED07, SeS07, AI*IA07, DL07, GrC07, DL08, WORM08, EMMSAD08, KR08, OWLED08, Geomatics09, RST09, GrC09, MTSR09, ORM09, AI*IA09, DL10, EKAW10.

Organisational activities and reviewing

Organisational activities

- Responsible person for the KRDB seminars (10-'07/present).
- PC co-Chair of the KRDB PhD Workshop, 11 May 2007, KRDB Research Centre, Free University of Bozen-Bolzano. (with Mariano Rodríguez).
- Co-organiser KRDB Seminar Series 2006, KRDB Research Centre, Free University of Bozen-Bolzano. (with Rosella Gennari).
- Organiser CS and IT with/for Biology, Seminar Series at the KRDB Research Centre, Free University of Bozen-Bolzano. Oct-Dec 2005 (with Enrico Franconi).
- Academic organisational and managerial activities in the capacity of student representation:
 - PhD Students' representative at the Faculty of Computer Science, Free University of Bozen-Bolzano, 11-'06/1-'08.
 - Student member of the Executive Committees of the Education Institute Food Technology and Nutrition at the Wageningen Agricultural University, the Netherlands, 6-'97/1-'98.
 - Student member of the Cluster of the Departments Food Technology and Human Nutrition, at the Wageningen Agricultural University, the Netherlands, 10-'95/7-'96.
 - Elected Member of the Faculty/University Council of the Wageningen Agricultural University on behalf of the Progressive Student Fraction (fulltime). Committee member of Research & Education and the Commission Student Affairs (of which the latter as vice-chairperson). 9-'94/9-'95.
- Other academic activities (selection):
 - Project proposal writing experience as initiator, WP leader, and contributor (8).
 - Webmaster: CS PhD students website (www.inf.unibz.it/phd, with Mariano Rodríguez), Professors without Borders (www.professorswithoutborders.net, 4-'06/present), Irish Peace Society (www.peace.ie, 10-'02/10-'04).
 - Member of the World Wide Web Consortium's Health Care & Life Sciences Special Interest Group (W3C HCLS IG) <http://www.w3.org/2001/sw/hcls/>.

Program Committee member and reviewing

- PC member International Workshop on Fact-Oriented Modeling (ORM'10)
- PC member Fifth Australasian Ontology Workshop (AOW'09)
- PC member International Conference on Knowledge Engineering and Ontology Development 2009 (KEOD'09, KEOD'10)
- PC member Semantic Web Applications and Tools for the Life Sciences 2008 (SWAT4LS'08, SWAT4LS'09)
- PC member Knowledge Representation Ontology Workshop 2008 (KROW'08)
- PC member Int. Workshop Semantic Web and Health Care and Life Sciences 2008

- PC member Int. Workshop Network Tools and Applications in Biology 2007 (NET-TAB'07)
- PC member Int. Workshop on Engineering Semantic Agent Systems (ESAS'06, ESAS'07, ESAS'08, ESAS'09)
- Reviewer (direct or delegated) also for:
 - Applied Ontology
 - Artificial Intelligence in Medicine
 - BMC Bioinformatics
 - Data & Knowledge Engineering
 - Fundamenta Informaticae
 - IEEE Transactions on Fuzzy Systems
 - IEEE Transactions on Knowledge and Data Engineering
 - Information Sciences
 - International Journal of Approximate Reasoning
 - International Conference on the Principles of Knowledge Representation and Reasoning (KR'10)
 - International Joint Conference on Artificial Intelligence 2009 (IJCAI'09)
 - European Semantic Web Conference (ESWC'07, ESWC'08, ESWC'09)
 - European Summer School in Logic, Language and Information (ESLLI'09 student session)
 - European Conference on Logics in Artificial Intelligence (JELIA'08)
 - Int. Workshop on Evolution and Change in Data Management (ECDM'08)
 - Int. Workshop on Description Logics 2008 (DL'08)
 - Reverse Network of Excellence (FP6) Deliverable I6
 - International Conference on Computer-based Medical Systems 2006 (CBMS'06), Special track on Ontologies for Biomedical Systems
 - International Conference on Ontologies and Databases (ODBASE'05, ODBASE'06)

Awards and grants

- Full grant to attend the EDBT Summer School, Bolzano, Italy, September 2007.
- KnowledgeWeb Network of Excellence grant to attend the KWEPSY PhD symposium in Budva, Montenegro, June 2006.
- PhD Scholarship Free University Bozen-Bolzano, Italy, 2005-2007.
- Research student scholarship, Napier University Edinburgh, UK, in 2003-'04.
- Semantic Mining in Biomedicine Network of Excellence grant to attend the Semantic Mining summer school in Balatonfüred, Hungary, July 2004.
- First paper award, Agropecuaria Conference (Interjoven 2004), San Jose de las Lajas, Cuba, June 2004.
- Internship grant from the Laboratory of Applied ontology (LOA-CNR), Trento, Italy, in 2004.
- Best Society Award from the University of Limerick for the Irish Peace Society (when I held the position of chairperson), 2003.
- National Merit Award from School and University Internet Awards (SUIA) for the Irish Peace Society's website www.peace.ie (when I held the position of Webmaster), 2003.

Projects

- Participation (researcher) in TERENCE, a new FP7 STREP project for the Technology Enhanced Learning area (start date Oct 2010).

- Participation (researcher) in the Marie Curie action funded by the EC under ICT Call 3 FP7-PEOPLE-2009-IRSES on a *Network for Enabling Networked Knowledge (NET2)*. Project duration: 2010-2012.
- Participation (researcher) in the Italy - South Africa collaboration project *Technologies for Conceptual Modelling and Intelligent Query Formulation*, within the Executive Programme of Scientific and Technological Co-Operation between the Italian Republic and Republic of South Africa 2008-2010; Coordinators Prof. Enrico Franconi (Italy) and Dr. Thomas Meyer (South Africa). Project duration: 2008-2010.
- Participation (tester and report writing) in the *EU FP6 FET TONES Project* concerning Ontology-Based Data Access for databases in the subject domain of people with disabilities and of horizontal gene transfer. Project duration: 2006-2008.
- Initiator and participation (coordination and research) in the project for *in silico* hypothesis testing with the database about horizontal gene transfer (HGT-DB). Main KRDB people involved are Prof. Werner Nutt, Mariano Rodríguez-Muro, and Giorgio Stefanoni and domain experts Prof. Santiago Garcia-Vallvé ("Rovira i Virgili" University, Tarragona, Spain) and Dr. Mark van Passel (Wageningen University and Research, the Netherlands). Project duration: 2006-present.

Languages

- Dutch: mother tongue
- English: fluent
- German: good
- Italian: medium
- Spanish: medium
- French: basic

Extra-curricular activities

- Co-founder of *Professors without Borders* (www.professorswithoutborders.net), an academic organisation that conducts, facilitates, and stimulates inter-regional peace research. I hold the positions of Chairperson and Chief Publications Officer; 4-'05/present.
- Member of *Informatici senza Frontiere* [Informaticians without borders]; 3-'10/present.
- Member of the delegation of the Free University of Bozen-Bolzano to the *Harvard World Model United Nations (WorldMUN) 2007* in Geneva; 11-'06/4-'07.
- Active member *Irish Peace Society*, University of Limerick, Ireland. Held the positions of Chairperson ('02/'03) and Webmaster ('02/'04) of www.peace.ie; 10-'02/11-'04.
- Member of the *Rugby Club Wageningen*, the Netherlands. Held the position of internal & external communications in the RCW steering group and co-organised the annual tour abroad (9-'97/8-'98); 9-'95/8-'99.
- *Intermediar Competition in Excellence*, a game simulation of businesses among the top 250 students from Dutch Universities; 2-'98.
- Active member of the *Wageningen Student Organization (WSO)*. Activities, a.o.: volunteer WSO-shop (9-'93/1-'98), chairperson three-weekly general meetings (2-'97/1-'98); 9-'92/1-'98.

- Active member of *Dwars*, a political youth organization. Activities: a.o. co-founder of the division Dwars Ede-Wageningen, organizing workshops. From 5-'94 to 7-'97 delegate in the Federation of Young European Greens (FYEG). Two projects were co-organizing the Cultural Seminar in Koprivstitsa, Bulgaria (9-'95) and the bi-annual Federative Council of the FYEG in Wageningen (6-'96), of which I was the final responsible person; '93/7-'96.