

Curriculum Vitae of Catharina Maria Keet

14 April 2017

Current position

Senior Lecturer
Department of Computer Science
University of Cape Town
Cape Town
South Africa

Personal Particulars

Surname	Keet
Names	Catharina Maria (Marijke)
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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 successfully 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 (via BSc Food Science) *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

Associate Diploma Course Interior 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

Senior Lecturer	<i>Department of Computer Science, University of Cape Town, Cape Town, South Africa, 1-'14/present.</i> Activities: research on logic-based knowledge representation, Semantic Web, (bio-)ontologies, granularity, and conceptual data modelling; course development, teaching and honours, MSc, and PhD student thesis supervision; organisational activities including student competitions, project acquisition and management, paper and project reviewing, and general administrative duties.
Senior Lecturer	<i>School of Mathematics, Statistics, and Computer Science, University of KwaZulu-Natal, Durban, South Africa, 1-'11/12-'13.</i> Activities: research, teaching (including course development) and thesis supervision; project acquisition and management, reviewing, member of the School's Higher Degrees & Research Committee, and general administrative duties and organisational activities.
Assistant Professor	<i>Ricercatore a Tempo Determinato (non-tenured researcher), KRDB Research Centre, Free University of Bozen-Bolzano, Italy, 2-'08/1-'11.</i> Activities: (i) research on 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</i> , Italy, 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</i> , Dublin, Ireland, 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, support, and 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, <i>Compaq Computer Corporation EMEA</i> , 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.
Network Administrator	Employee <i>Brunel IT</i> , 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 project via Tivoli, installation of its test environment and performance analysis. 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, investigation w.r.t. domain separation.
Project researcher	Food science/human physiology at the <i>Centro Internacional de la Papa (CIP)</i> in Lima, Peru, 7-'96/1-'97. Activities: developed and implemented test protocols for <i>in vitro</i> digestibility of sweet potato, organized lab equipment and chemicals.

Publications

Book chapters

1. Khan, Z.C., Keet, C.M. Foundational ontology mediation in ROMULUS. In: *Knowledge Discovery, Knowledge Engineering and Knowledge Management: IC3K 2013 Selected Papers*. Fred, A., Dietz, J.L.G., Liu, K., Filipe, J. (Eds.). Springer Communications in Computer and Information Science CCIS 454, pp. 132-152. 2015.

2. Keet, C.M., Suárez-Figueroa, M.C., Poveda-Villalón, M. Pitfalls in Ontologies and TIPS to Prevent Them. In: *Knowledge Discovery, Knowledge Engineering and Knowledge Management: IC3K 2013 Selected papers*. Fred, A., Dietz, J.L.G., Liu, K., Filipe, J. (Eds.). Springer Communications in Computer and Information Science CCIS 454, pp. 115-131. 2015.
3. Keet, C.M.. Ontology-driven formal conceptual data modeling for biological data analysis. In: *Biological Knowledge Discovery Handbook: Preprocessing, Mining and Postprocessing of Biological Data*, Chapter 6, Mourad Elloumi and Albert Y. Zomaya (Eds.). Wiley. 2013. pp129-154.
4. 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. 2010. pp81-117.
5. 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., Khumalo, L. Toward a knowledge-to-text controlled natural language of isiZulu. *Language Resources and Evaluation*, 2017, 51:131-157.
2. Khan, Z.C., Keet, C.M.. ROMULUS: a Repository of Ontologies for MULTiple USes populated with foundational ontologies. *Journal on Data Semantics*, 2016, 5(1):19-36.
3. Khan, Z.C., Keet, C.M.. An empirically-based framework for ontology modularization. *Applied Ontology*, 2015, 10(3-4):171-195.
4. Keet, C.M., Fillotrani, P.R. An ontology-driven unifying metamodel of UML Class Diagrams, EER, and ORM2. *Data & Knowledge Engineering*, 2015, 98:30-53.
5. Keet, C.M., Ławrynowicz, A., d'Amato, C., Kalousis, A., Nguyen, P., Palma, R., Stevens, R., Hilario, M. The Data Mining OPTimization ontology. *Web Semantics: Science, Services and Agents on the World Wide Web*, 2015, 32:43-53.
6. Keet, C.M., Barbour, G. Limitations of Regular Terminology Development practices: the case of the isiZulu Computing Terminology. *Alternation*, 2014, 12:13-48.
7. Keet, C.M.. Preventing, Detecting, and Revising Flaws in Object Property Expressions. *Journal on Data Semantics*, 2014, 3(3):189-206.
8. Keet, C.M.. Transforming semi-structured life science diagrams into meaningful domain ontologies with DiDOn. *Journal of Biomedical Informatics*, 2012, 45(3): 482-494.
9. Keet, C.M.. The granular perspective as semantically enriched granulation hierarchy. *International Journal of Granular Computing, Rough Sets and Intelligent Systems*, 2011, 2(1):51-70.
10. Keet, C.M.. Dependencies between Ontology Design Parameters. *International Journal of Metadata, Semantics and Ontologies*, 2010, 5(4):265-284.
11. 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.
12. Keet, C.M.. Biological Data and Conceptual Modelling Methods. *Journal of Conceptual Modeling*, Issue 29, October 2003.
13. Keet, C.M.. Democracy in the European Union. *UL Perspectives, Journal of Political Studies*, 2003, 2:71-80.

Conference and Workshop papers

1. Keet, C.M. Representing and aligning similar relations: parts and wholes in isiZulu vs English. *Language, Data, and Knowledge 2017 (LDK'17)*. Springer LNAI. 19-20 June, 2017, Galway, Ireland. (accepted)
2. Fillotrani, P.R., Keet, C.M.. Patterns for Heterogeneous TBox Mappings to Bridge Different Modelling Decisions. *14th Extended Semantic Web Conference (ESWC'17)*, Portoroz, Slovenia, May 28 - June 2, 2017. (accepted)

3. Keet, C.M. Relating some stuff to other stuff. *20th International Conference on Knowledge Engineering and Knowledge Management (EKAW'16)*. Blomqvist, E., Ciancarini, P., Poggi, F., Vitali, F. (Eds.). Springer LNAI vol. 10024, 368-383. 19-23 November 2016, Bologna, Italy.
4. Keet, C.M., Chirema, T. A model for verbalising relations with roles in multiple languages. *20th International Conference on Knowledge Engineering and Knowledge Management (EKAW'16)*. Blomqvist, E., Ciancarini, P., Poggi, F., Vitali, F. (Eds.). Springer LNAI vol. 10024, 384-399. 19-23 November 2016, Bologna, Italy.
5. Khan, Z.C., Keet, C.M.. Dependencies between modularity metrics towards improved modules. *20th International Conference on Knowledge Engineering and Knowledge Management (EKAW'16)*. Blomqvist, E., Ciancarini, P., Poggi, F., Vitali, F. (Eds.). Springer LNAI vol. 10024, 400-415. 19-23 November 2016, Bologna, Italy.
6. Keet, C.M., Khumalo, L. On the verbalization patterns of part-whole relations in isiZulu. *9th International Natural Language Generation conference (INLG'16)*, September 5-8, 2016, Edinburgh, UK. Association for Computational Linguistics, 174-183.
7. Byamugisha, J., Keet, C.M., DeRenzi, B. Tense and Aspect in Runyankore using a Context-Free Grammar. *9th International Natural Language Generation conference (INLG'16)*, September 5-8, 2016, Edinburgh, UK. Association for Computational Linguistics, 84-88.
8. Sanby, L., Todd, I., Keet, C.M.. Comparing the template-based approach to GF: the case of Afrikaans. *2nd International Workshop on Natural Language Generation and the Semantic Web (WebNLG'16)*. Gardent, C., Gangemi, A. (Eds.). Association for Computational Linguistics, 50-53. September 6, 2016, Edinburgh, Scotland.
9. Khan, Z.C., Keet, C.M., Fillotrani, P.R., Cenci, K.M. Experimentally motivated transformations for intermodel links between conceptual models. *20th Conference on Advances in Databases and Information Systems (ADBIS'16)*. J. Pokorný et al. (Eds.). Springer LNCS vol. 9809, 104-118. August 28-31, Prague, Czech Republic.
10. Byamugisha, J., Keet, C.M., DeRenzi, B. Bootstrapping a Runyankore CNL from an isiZulu CNL. *5th Workshop on Controlled Natural Language (CNL'16)*, Springer LNAI vol 9767, 25-36. 25-27 July 2016, Aberdeen, UK.
11. Ławrynowicz, A., Keet, C.M.. The TDDonto Tool for Test-Driven Development of DL Knowledge bases. *29th International Workshop on Description Logics (DL'16)*. Peñaloza, R. and Lenzerini, M. (Eds.). CEUR-WS Vol. 1577. April 22-25, Cape Town, South Africa.
12. Keet, C.M., Ławrynowicz, A. Test-Driven Development of Ontologies. *13th Extended Semantic Web Conference (ESWC'16)*. H. Sack et al. (Eds.). Springer LNCS vol. 9678, 642-657. 29 May - 2 June, 2016, Crete, Greece.
13. Ndaba, B., Suleman, H., Keet, C.M., Khumalo, L. The Effects of a Corpus on isiZulu Spellcheckers based on N-grams. *IST-Africa 2016*. Paul Cunningham and Miriam Cunningham (Eds.). IIMC International Information Management Corporation. May 11-13, 2016, Durban, South Africa.
14. Byamugisha, J., Keet, C.M., Khumalo, L. Pluralising Nouns in isiZulu and Related Languages. *17th International Conference on Intelligent Text Processing and Computational Linguistics (CI-CLing'16)*, Springer LNCS. April 3-9, 2016, Konya, Turkey. (in print)
15. Msosa, Y.J., Keet, C.M., Densmore, M. Characterisation of Clinical Practice Guideline Changes. *HEALTHINF 2016*, Rome, Italy. SCITEPRESS
16. Khan, Z.C., Keet, C.M.. Toward a framework for ontology modularity. *Annual Conference of the South African Institute of Computer Scientists and Information Technologists (SAICSIT'15)*, 28-30 September 2015, Stellenbosch, South Africa. ACM Proceedings.
17. Chavula, C. Keet, C.M.. An Orchestration Framework for Linguistic Task Ontologies. *9th Metadata and Semantics Research Conference (MTSR'15)*. Garoufallou, E. et al. (Eds.). Springer CCIS vol. 544, 3-14. 9-11 September, 2015, Manchester, UK.
18. Fillotrani, P.R., Keet, C.M.. Evidence-based Languages for Conceptual Data Modelling Profiles. *19th Conference on Advances in Databases and Information Systems (ADBIS'15)*. Morzy et al. (Eds.). Springer LNCS vol. 9282, 215-229. Poitiers, France, Sept 8-11, 2015.

19. Keet, C.M., Fillotrani, P.R. An analysis and characterisation of publicly available conceptual models. *34th International Conference on Conceptual Modeling (ER'15)*. Johannesson, P., Lee, M.L. Liddle, S.W., Opdahl, A.L., Pastor López, O. (Eds.). Springer LNCS vol 9381, 585-593. 19-22 Oct, Stockholm, Sweden.
20. Fillotrani, P.R., Keet, C.M., Toman, D. Polynomial encoding of ORM conceptual models in $CFDT_{nc}^{\forall}$. *28th International Workshop on Description Logics (DL'15)*, Calvanese, D. and Konev, B., (Eds.). CEUR-WS vol. 1350, pp 401-414. 7-10 June 2015, Athens, Greece.
21. Keet, C.M.. An Experiment with Peer Instruction in Computer Science to Enhance Class Attendance. *23rd Annual Meeting of the Southern African Association for Research in Mathematics, Science, and Technology Education (SAARMSTE'15)*, Huillet, E. (Ed.), pp319-331. 13-16 January 2015, Maputo, Mozambique.
22. Khan, Z.C., Keet, C.M.. SUGOI: Automated Ontology Interchangeability. *Knowledge Engineering and Knowledge Management: EKAW 2014 Satellite Events*. Lambrix, P., Hyvönen, E., Blomqvist, E., Presutti, V., Qi, G., Sattler, U., Ding, Y., Ghidini, C. Springer Lecture Notes in Artificial Intelligence LNAI vol. 8982, 150-153.
23. Keet, C.M., Ongoma, E.A.N. Temporal Attributes: their Status and Subsumption. *Asia-Pacific Conference on Conceptual Modelling (APCCM'15)*, Köhler, H., Saeki, M. (Eds.), Conferences in Research and Practice in Information Technology (CRPIT), Vol. 165, 61-70. 27-30 January, 2015, Sydney, Australia.
24. Chavula, C., Keet, C.M.. Is Lemon Sufficient for Building Multilingual Ontologies for Bantu Languages? *11th OWL: Experiences and Directions Workshop (OWLED'14)*. Keet, C.M., Tamma, V. (Eds.). Riva del Garda, Italy, Oct 17-18, 2014. CEUR-WS vol. 1265, 61-72.
25. Keet, C.M.. A core ontology of macroscopic stuff. *19th International Conference on Knowledge Engineering and Knowledge Management (EKAW'14)*. K. Janowicz et al. (Eds.). 24-28 Nov, 2014, Linköping, Sweden. Springer Lecture Notes in Artificial Intelligence LNAI vol. 8876, 209-224.
26. Khan, Z.C., Keet, C.M.. Feasibility of automated foundational ontology interchangeability. *19th International Conference on Knowledge Engineering and Knowledge Management (EKAW'14)*. K. Janowicz et al. (Eds.). 24-28 Nov, 2014, Linköping, Sweden. Springer Lecture Notes in Artificial Intelligence LNAI vol. 8876, 225-237.
27. Ongoma, E.A.N., Keet, C.M., Meyer, T. Transition Constraints for Temporal Attributes. *27th International Workshop on Description Logics (DL'14)*. Bienvenu, M., Ortiz, M., Rosati, R., Simkus, M. (Eds.). CEUR-WS vol 1193, 684-695. 17-20 July 2014, Vienna, Austria.
28. Keet, C.M., Khumalo, L. Basics for a grammar engine to verbalize logical theories in isiZulu. *8th International Web Rule Symposium (RuleML'14)*, A. Bikakis et al. (Eds.). Springer Lecture Notes in Computer Science LNCS vol. 8620, 216-225. August 18-20, 2014, Prague, Czech Republic.
29. Fillotrani, P.R., Keet, C.M. Conceptual Model Interoperability: a Metamodel-driven Approach. *8th International Web Rule Symposium (RuleML'14)*, A. Bikakis et al. (Eds.). Springer Lecture Notes in Computer Science LNCS vol. 8620, 52-66. August 18-20, 2014, Prague, Czech Republic.
30. Keet, C.M., Khumalo, L. Toward verbalizing logical theories in isiZulu. *4th Workshop on Controlled Natural Language (CNL'14)*, Davis, B, Kuhn, T, Kaljurand, K. (Eds.). Springer Lecture Notes in Artificial Intelligence LNAI vol. 8625, 78-89. 20-22 August 2014, Galway, Ireland.
31. Keet, C.M., d'Amato, C., Khan, Z.C., Ławrynowicz, A. Exploring Reasoning with the DMOP Ontology. *3rd Workshop on Ontology Reasoner Evaluation (ORE'14)*. Samantha Bail, S., Glimm, B, Jiménez-Ruiz, E., Matentzoglou, N., Parsia, B., Steigmiller, A. (Eds.). July 13, 2014, Vienna, Austria. CEUR-WS Vol 1207, 64-70.
32. Keet, C.M., Khan, M.T., Ghidini, C. Ontology Authoring with FORZA. *22nd ACM International Conference on Information and Knowledge Management (CIKM'13)*. ACM proceedings. Oct. 27 - Nov. 1, 2013, San Francisco, USA. pp569-578.
33. Keet, C.M., Fillotrani, P.R. Toward an ontology-driven unifying metamodel for UML Class Diagrams, EER, and ORM2. *32nd International Conference on Conceptual Modeling (ER'13)*. 11-13 November, 2013, Hong Kong. W. Ng, V.C. Storey, and J. Trujillo (Eds.). Springer Lecture Notes in

- Computer Science LNCS vol. 8217, 313-326.
34. Khan, Z., Keet, C.M. The foundational ontology library ROMULUS. *3rd International Conference on Model & Data Engineering (MEDI'13)*. September 25-27, 2013, Amantea, Calabria, Italy. A. Cuzzocrea and S. Maabout (Eds.). Springer Lecture Notes in Computer Science LNCS vol. 8216, 200-211.
 35. Keet, C.M., Fillotrani, P.R. Structural entities of an ontology-driven unifying metamodel for UML, EER, and ORM2. *3rd International Conference on Model & Data Engineering (MEDI'13)*. September 25-27, 2013, Amantea, Calabria, Italy. A. Cuzzocrea and S. Maabout (Eds.). Springer Lecture Notes in Computer Science LNCS vol. 8216, 188-199.
 36. Keet, C.M., Suárez-Figueroa, M.C., Poveda-Villalón, M. The current landscape of pitfalls in ontologies. *5th International Conference on Knowledge Engineering and Ontology Development (KEOD'13)*, Filipe, J. and Dietz, J. (Eds.), Vilamoura, Portugal, 19-22 September. SCITEPRESS, pp132-139.
 37. Khan, Z., Keet, C.M.. Addressing issues in foundational ontology mediation. *5th International Conference on Knowledge Engineering and Ontology Development (KEOD'13)*, Filipe, J. and Dietz, J. (Eds.), Vilamoura, Portugal, 19-22 September. SCITEPRESS, pp5-16.
 38. Keet, C.M., Lawrynowicz, A., d'Amato, C., Hilario, M. Modeling issues and choices in the Data Mining OPTimisation Ontology. *10th Workshop on OWL: Experiences and Directions (OWLED'13)*, 26-27 May 2013, Montpellier, France. CEUR-WS vol 1080.
 39. Keet, C.M. An Assessment of Theory of Computation in Computer Science Curricula. *21st Annual Meeting of the Southern African Association for Research in Mathematics, Science, and Technology Education (SAARMSTE'13)*. pp145-156. Bellville, South Africa, January 14-17, 2013.
 40. Keet, C.M. Detecting and Revising Flaws in OWL Object Property Expressions. *18th International Conference on Knowledge Engineering and Knowledge Management (EKAW'12)*, A. ten Teije et al. (Eds.). Oct 8-12, Galway, Ireland. Springer, Lecture Notes in Artificial Intelligence LNAI vol. 7603, 252-266.
 41. Khan, Z., Keet, C.M.. ONSET: Automated Foundational Ontology Selection and Explanation. *18th International Conference on Knowledge Engineering and Knowledge Management (EKAW'12)*, A. ten Teije et al. (Eds.). Oct 8-12, Galway, Ireland. Springer, Lecture Notes in Artificial Intelligence LNAI vol. 7603, 237-251.
 42. Keet, C.M., Fernández-Reyes, F.C., Morales-González, A. Representing mereotopological relations in OWL ontologies with ONTOPARTS. In: *Proceedings of the 9th Extended Semantic Web Conference (ESWC'12)*, 29-31 May 2012, Heraklion, Crete, Greece. Springer, Lecture Notes in Computer Science LNCS vol. 7295, 240-254.
 43. Alberts, R., Fogwill, T., Keet, C.M. Several Required OWL Features for Indigenous Knowledge Management Systems. *7th Workshop on OWL: Experiences and Directions (OWLED 2012)*. Klinov, P. and Horridge, M. (Eds.). 27-28 May 2012, Heraklion, Crete, Greece. CEUR-WS Vol. 849.
 44. Fogwill, T., Alberts, R., Keet, C.M. The potential for use of semantic web technologies in IK management systems. *IST-Africa Conference & Exhibition 2012*. May 9-11, Dar es Salaam, Tanzania.
 45. Keet, C.M.. Rough Subsumption Reasoning with rOWL. *SAICSIT Annual Research Conference (SAICSIT'11)*, Cape Town, October 3-5, 2011. ACM Conference Proceedings, 133-140.
 46. Keet, C.M.. Enhancing Identification Mechanisms in UML Class Diagrams with Meaningful Keys. *SAICSIT Annual Research Conference (SAICSIT'11)*, Cape Town, October 3-5, 2011. ACM Conference Proceedings, 283-286.
 47. Keet, C.M.. Bottom-up ontology development reusing semi-structured life sciences diagrams. *AFRICON'11 – Special Session on Robotics and Artificial Intelligence in Africa*, Livingstone, Zambia 13-15 September, 2011. IEEE Computer Society. 6p.
 48. Keet, C.M.. The use of foundational ontologies in ontology development: an empirical assessment. *8th Extended Semantic Web Conference (ESWC'11)*, G. Antoniou et al (Eds.), 29 May - 2 June 2011, Heraklion, Crete, Greece. Springer, Lecture Notes in Computer Science LNCS vol. 6643, 321-335.
 49. Keet, C.M. and Artale, A. A basic characterization of relation migration. *International Workshop on*

- Fact-Oriented Modeling (ORM'10)*, Hersonissou, Crete, Greece, October 27-29, 2010. Meersman, et al (Eds.), *OTM Workshops*, Springer, Lecture Notes in Computer Science LNCS vol. 6428, 484-493.
50. Keet, C.M.. Ontology engineering with rough concepts and instances. *17th International Conference on Knowledge Engineering and Knowledge Management (EKAW'10)*. P. Cimiano and H.S. Pinto (Eds.). 11-15 October 2010, Lisbon, Portugal. Springer Lecture Notes in Artificial Intelligence LNAI vol. 6317, 507-517.
 51. 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. CEUR-WS, Vol-353.
 52. 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.
 53. 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 vol. 5872, 735-744.
 54. 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.
 55. 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 vol. 5883, 11-20.
 56. 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.
 57. 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 vol. 46, 239-244.
 58. Keet, C.M.. Structuring GIS information with types of granularity: a case study. *VI International Conference on Geomatics*, 10-12 February 2009, Havana, Cuba.
 59. Keet, C.M., Alberts, R., Gerber, A., Chimamiwa, G. Enhancing web portals with Ontology-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.
 60. 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.
 61. 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.
 62. Keet, C.M.. Unifying industry-grade class-based conceptual data modeling languages with \mathcal{CM}_{com} . *21st International Workshop on Description Logics (DL'08)*, 13-16 May 2008, Dresden, Germany. CEUR-WS, Vol-353. 11p.
 63. 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.
 64. 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.
65. 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.
 66. 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 vol. 4805, 624-633.
 67. 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 vol. 4733, 814-822.
 68. Keet, C.M.. Prospects for and issues with mapping the Object-Role Modeling language into \mathcal{DLR}_{ifd} . *20th International Workshop on Description Logics (DL'07)*, 8-10 June 2007, Bressanone, Italy. CEUR-WS Vol-250, 331-338.
 69. 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.
 70. 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.
 71. 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 vol. 4278. Berlin: Springer-Verlag, 2006, 1118-1127.
 72. 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.
 73. 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.
 74. Keet, C.M.. Using abstractions to facilitate management of large ORM models and ontologies. 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 vol. 3762. Berlin: Springer-Verlag, 2005, 603-612.
 75. 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 vol. 3615, Springer Verlag, 2005, 46-62.
 76. Keet, C.M., Kumar, A. Applying partitions to infectious diseases. *XIX International Congress of the European Federation for Medical Informatics (MIE'05)*. Geneva, Switzerland, 28-31 August, 2005. In: *Connecting Medical Informatics and bio-informatics*, Engelbrecht, R., Geissbuhler, A., Lovis, C. Mihalas, G. (eds.). Amsterdam: IOS Press, 2005, 1236-1241.

Selected demo papers

1. Davies, K. Keet, C.M., Ławrynowicz, A. TDDonto2: A Test-Driven Development Plugin for arbitrary TBox and ABox axioms. *14th Extended Semantic Web Conference (ESWC'17)*, Portoroz, Slovenia, May 28 - June 2, 2017. (demo paper)
2. Keet, C.M. Xakaza, M., Khumalo, L. Verbalising OWL ontologies in isiZulu with Python. *14th Extended Semantic Web Conference (ESWC'17)*, Portoroz, Slovenia, May 28 - June 2, 2017. (demo paper)
3. Zwane, N., Silubonde, S., Keet, C.M. VocabLift: Computer-based word games to learn vocabulary of multiple languages. *6th Workshop on African Language Technology (AfLaT'14)*, 27-28 Nov, 2014,

- Cape Town, South Africa. (software demo)
4. Dlamini, S., Keet, C.M., Khumalo, L., Mngadi, K., Ongoma, E.A.N. ULPDO isiZulu Termbank Development. *6th Workshop on African Language Technology (AfLaT'14)*, 27-28 Nov, 2014, Cape Town, South Africa. (software demo)
 5. Khan, Z., Keet, C.M. Toward semantic interoperability with aligned foundational ontologies in ROMULUS. *Seventh International Conference on Knowledge Capture (K-CAP'13)*, ACM proceedings, pp145-146. 23-26 June 2013, Banff, Canada. (poster&demo paper)
 6. Keet, C.M., Khan, M.T., Ghidini, C. Guided ENtity reuse and class Expression geneRATOR. *Seventh International Conference on Knowledge Capture (K-CAP'13)*. ACM proceedings, pp143-144. 23-26 June 2013, Banff, Canada. (poster&demo paper)
 7. Morales-González, A., Fernández-Reyes, F.C., Keet, C.M. ONTOPARTS: a tool to select part-whole relations in OWL ontologies. *ESWC 2012 Satellite Events*. E. Simperl et al. (Eds.). Springer, Lecture Notes in Computer Science LNCS vol. 7540, 1-6. 29-31 May 2012, Heraklion, Crete, Greece. Demo with paper at 9th Extended Semantic Web Conference (**ESWC'12**).

Encyclopedia entries

1. Keet, C.M.. Granularity. *Encyclopedia of Systems Biology*, W. Dubitzky, O. Wolkenhauer, K. Cho, H. Yokota (eds.), Springer, 2012.
2. Keet, C.M.. Reasoning, Automated. *Encyclopedia of Systems Biology*, W. Dubitzky, O. Wolkenhauer, K. Cho, H. Yokota (eds.), Springer, 2012.

Selected Technical Reports

1. Keet, C.M.. *An assessment of orthographic similarity measures for several African languages*. Technical Report, Arxiv.org, <http://arxiv.org/abs/1608.03065>. Aug 10, 2016. 9p.
2. Keet, C.M., Ławrynowicz, A. *Test-Driven Development of Ontologies (extended version)*. Technical Report, Arxiv.org <http://arxiv.org/abs/1512.06211>. Dec 19, 2015. 32p.
3. Fillotrani, P.R., Keet, C.M.. *KF metamodel formalization*. Technical Report, Arxiv.org <http://arxiv.org/abs/1412.6545>. Dec 19, 2014. 26p.
4. R. Alberts, D. Calvanese, G. De Giacomo, A. Gerber, M. Horridge, A. Kaplunova, C.M. 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.
5. 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.
6. Jarrar, M., Keet, C.M., Dongilli, P. *Multilingual verbalization of ORM conceptual models and axiomatized ontologies*. STARLab Technical Report, Vrije Universiteit Brussel. February 2006.
7. Keet, C.M.. *Aspects of Ontology Integration*. Technical Report, Napier University, Edinburgh, Scotland. 2004.

Editing

1. Keet, C.M., Tamma, V. (Eds.). *Proceedings of the 11th International Workshop on OWL: Experiences and Directions (OWLED 2014)*. Riva del Garda, Italy, Oct 17-18, 2014. CEUR-WS vol. 1265.
2. Britz, A., Calvanese, D., Keet, C.M., Klarman, S. (Eds.). *Proceedings of the First International Workshop on Logics and Reasoning for Conceptual Modeling (LRCM'13)*. Co-located with LPAR-19. December 14, 2013, Stellenbosch, South Africa.
3. Keet, C.M.. (Ed.). 2011. *The nonviolent personality*. Edited and translated from the Italian la personalità nonviolenta written by Giuliano Pontara.
4. 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.

Reviews

1. Keet, C.M.. 2012. Book review of “Artificial Intelligence: The Basics” by Kevin Warwick. *International Studies in the Philosophy of Science*, **26**(3): 351-354.
2. Keet, C.M.. 2009. Dirty wars, databases, and indices. *Peace & Conflict Review*, **4**(1):75-78.
3. 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.

Selected symposia, seminar & working papers and conference/workshop abstracts

1. Keet, C.M. Augmenting CS1 courses with a semester-long contest. *CLI Symposium 2016*, Phuket, Thailand, collocated with the ACM ICPC World Finals, May 14-20, 2016.
2. Fillotrani, P.R., Keet, C.M. A Design for Coordinated and Logics-mediated Conceptual Modelling. *29th International Workshop on Description Logics (DL'16)*. Peñaloza, R. and Lenzerini, M. (Eds.). CEUR-WS Vol. 1577. April 22-25, Cape Town, South Africa. (abstract, with full presentation)
3. Buthelezi, T., Keet, C.M. Isihloko: Izindlela ezimkhakhamningi neziqhakambisa umphakathi ekwakhweni kwamagama esiZulu semfundo emkhakheni weSayensi YeKhompyutha neminye encike kuwo. *18th Annual African Language Teachers Association (ALTA) Conference*, April 24-27, 2014, Chicago, USA. (abstract, with full presentation)
4. Keet, C.M., Barbour, G.D. Toward self-sustaining community-driven online terminology development. *7th Annual Teaching & Learning Higher Education Conference 2013*, Pinetown, South Africa, September 25-27, 2013. (abstract, with full presentation)
5. 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, with full presentation)
6. Keet, C.M. Games tegen terrorisme en voor conflictoplossing. *Vredesverts*, April 2009, issue 49.
7. 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.
8. 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.

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.

Software

1. *TDDonto*: test-driven development of ontologies. For details, see the ESWC'16 (ref. 12) and DL'16 (ref. 11) papers. Online: <https://semantic.cs.put.poznan.pl/wiki/aristoteles/doku.php>
2. IsiZulu natural language generation/controlled natural language tools. For details, see the CNL'14 (ref. 30), RuleML'14 (ref. 28), CICLing'16 (ref. 14), and INLG'16 (ref. 6) conference papers and LRE journal paper (ref. 1). Online: <http://www.meteck.org/files/geni/>.
3. *ROMULUS: Repository of Ontologies for MULTiple USEs*; with Zubeida Khan, 2013. For details, see our MEDI'13 paper (ref. 34), KEOD'13 paper (ref. 37), and KCAP'13 poster/demo (ref. 5). Online: <http://www.thezfiles.co.za/ROMULUS/>.
4. *ONSET: foundational ONtology Selection and Explanation Tool*; with Zubeida Khan, 2011/2012. See our EKAW'12 paper for details (ref. 41). Online: <http://www.meteck.org/files/onset/>.
5. *ONTOPARTS: Ontology-inspired Part-whole Selection*; with Francis Fernández-Reyes and Annette Morales-González. See our ESWC'12 paper (ref. 42) and demo description (ref. 7) for details. Online: <http://www.meteck.org/files/ontopartssup/supindex.html>. Followed-up with ONTOPARTS-2 in the FORZA method and integrated in MoKi; see our CIKM'13 paper (ref. 32) for details.
6. *WONDER: Web ONtology mediateD Extraction of Relational data*; with Diego Calvanese, Werner Nutt, Mariano Rodríguez-Muro, and Giorgio Stefanoni. See our ACM SAC'10 paper for details (ref. 52). Online: <http://wonder.inf.unibz.it/WONDER/>.

Translation

1. *The nonviolent personality*. 2011. Translated from the Italian original *La personalità nonviolenta* written by Giuliano Pontara.

Teaching

Courses

- *Ontology engineering*, 4th year BSc in CS honours module at UCT, 2014, 2015, 2016; Lecturer; includes course development, teaching, and labs. $\pm 15 - 30$ students
- *Networks* (part of CSC3002F, 3rd year BSc in CS module at UCT, semester 1, 2014, 2015, 2016; Lecturer; includes course development, teaching. ± 100 students
- *Networks* (MSc in IT conversion masters, UCT), semester 1, 2014, 2015, 2016; mainly setting assignments, exam, and marking. ± 15 students
- *Ethics/Social Issues and Professional Practice*, part of CSC1016S, 1st-year students, semester 2, 2016. ± 500 students
- *Introduction to computer science* (CSC1015F, CSC1017F, CSC1016S), 2015, 2016; course convenor. ± 900 students and ± 400 .
- *Ontologies and Knowledge Bases* (COMP720 [formerly COMP718]), semester 1, 2011, 2012, semester 2 in 2013, 4th year BSc in CS honours course, 16 credits, UKZN, Lecturer; includes course development, teaching, and labs. ± 15 students
- *Database Systems* (COMP306), semester 1, 2012, 2013, 3rd year BSc module, 16 credits, UKZN, Lecturer; includes course development, teaching, and labs. ± 30 students
- *Computing for Natural Scientists* (COMP106), semester 2, 2013; Lecturer. ± 200 students
- *Theory of Computation* (COMP314), semester 2, 2011, 2012, 3rd year BSc core module, 16 credits, UKZN, Lecturer; includes course development, teaching, and labs. ± 70 students
- *Introduction to ontology engineering, with emphasis on Semantic Web Technologies*; 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).

- *Introduction to Ontology Engineering: Foundations and applications*, 5-15 July 2010, Universidad de las Ciencias Informáticas, Cuba; Lecturer; includes course development and teaching (20+10 hours lectures and labs).
- *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).
- *Semantic Web Technologies*, part 2, 2009/2010, MSc-level (part of the European Masters in Computational Logic), 4 ECTS, FUB; Lecturer; includes course development and teaching.
- *Logic*, 2007/2008, BSc-level, 4 ECTS, FUB; Teaching Assistant; labs and midterm.

Tutorials and short lecture series

- *Coach programming contests*. Training ICPC World Finals' UCT teams and aspiring finalists for the ICPC Southern Africa regionals, UCT; 2014-present.
- *Research statistics*, part of the Postgraduate Research Methods course, Department of Computer Science, UCT; 2015, 2016, 2017.
- *Foundations and recent trends on ontology engineering*. Course at the Erasmus Mundus Master's Programme in Information Technologies for Business Intelligence (IT4BI)/Erasmus Mundus Joint Master Degree Programme in Big Data Management and Analytics (BDMA). Universitat Politècnica de Catalunya, Barcelona, Spain. 8h lectures. 2017.
- *Representing and reasoning over relationships in ontologies*. Forum on AI Research (FAIR'14), Stellenbosch, South Africa, 3-5 December, 2015.
- *Introduction to technical writing*. Tutorial at the Honours students Research Methods Seminar, University of KwaZulu-Natal, Durban, South Africa, d.d. 6 June 2012.
- *Top-down Ontology Development*. Guest Lecture of the Ontology and Knowledge Based Systems fourth year (honours) course, University of KwaZulu-Natal, Durban, South Africa, d.d. 17-18 August 2010.
- *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.
- *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.
- *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.

Student thesis and project supervision

Current postgraduate students:

- Joan Byamugisha (PhD student, supervisor 2015-)
- Zubeida Khan (PhD student, supervisor; 2014-)
- Yamiko Msosa (PhD student, supervisor; 2014-)
- Zola Mahlaza (MSc student, supervisor; 2016-)
- Jarvis Mutakha (MSc, supervisor; 2017-)
- Cameron Kyle (M. IT, supervisor; 2017-)
- Iman Neguib (M. IT, supervisor; 2017-)

Graduated postgraduate students:

- Sindiso Nleya (PhD (CS); 2014-2016)
- Trésor Mvumbi (MSc (CS); 2014-2016)
- Tamindran Shunmugam (MSc (IT); 2014-2016)
- Nasubo Ongoma (MSc (CS), 2013-2014); cum laude
- Zubeida Khan (MSc (CS); 2012-2013); cum laude

Graduated BSc/BSc honours project students:

- Kieren Davies (2016), Ameerah Allie (2016), Lauren Sanby (2015), Ion Todd (2015), Victor Kabine (2105), Dylan Henderson (2015), Luqmaan Salie (2015), Ngonidzashe Choga (2015), Alex Hall

(2014), Matthew Welham (2014), Asive Dlaba (2013), Siyabonga Madlala (2013), Zubeida Khan (2011), Giorgio Stefanoni (2009)

Co-authored publications resulting from BSc/BSc(Hons)/MSc student theses:

- Comparing template-based to GF-based NLG. Students: Lauren Sanby and Ion Todd (BSc(hons)). Paper no. 8 (WebNLG'16).
- IsiZulu spellchecker. Student: Balone Ndaba (BSc(hons)). Paper no. 13 (IST-Africa'16).
- Logic-based temporal conceptual data models with temporal attributes (MSc). Student: E.A. Nasubo Ongoma. Paper nos. 27 (DL'14) and 23 (APCCM'15).
- Extending ontology development methodologies with foundational ontologies with ONSET (BSc) and Foundational ontology interchangeability with ROMULUS (MSc). Student: Zubeida Khan (currently a PhD student at UCT). Paper nos. 41 (EKAW'12), 37 (KEOD'13), 34 (MEDI'13), and poster/demo paper (paper no. 5 (KCAP'13)).
- Web ontology mediated extraction of relational data. Student: Giorgio Stefanoni, BSc thesis (graduated with a EMCL, currently a PhD student at Oxford). Paper: conference paper no. 52 (ACM SAC'10).
- MSc thesis: Functional dependencies, keys and explicit functions in OWL ontologies. Student: Jean-Paul Calbimonte (currently a PhD student at UPM). Paper: conference paper no. 54 (SBBD'09).

Examinations

- Member FUB CS PhD Committee (Collegio di Docenti), 7-'08/12-'10.
- Member FUB Examination Commission of the BSc and MSc degrees in Computer Science, 2008/2009.
- External Examiner (MSc thesis), Tshwane University of Technology, South Africa. 2013.
- External Examiner (MSc thesis), LBD EPFL, Switzerland. 2007.
- Internal Examiner (MSc thesis), University of Cape Town, South Africa, 2014.
- Reviewer CS Honours projects, UKZN (2011-2013).
- Second Reader CS Honours projects, Masters theses, UCT (2014-).

Awards and grants

- First Prize "Verifiability, Reproducibility and Working Description Award" at the 17th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing'16) for the code and datasets of the paper entitled "Pluralising Nouns in isiZulu and Related Languages" (reference 14).
- Best Research Paper Award at the 18th International Conference on Knowledge Engineering and Knowledge Management (EKAW'12) for the paper entitled "Detecting and Revising Flaws in OWL Object Property Expressions" (reference 40).
- Y1 rated researcher in South Africa, obtained in Nov. 2011.
- First paper award, Agropecuaria Conference (Interjoven 2004), San Jose de las Lajas, Cuba, June 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.
- NRF Competitive Programme for Rated Researchers (CPRR) – Y-rated development grant. 2015-2017 (3 years). R300 000.
- UCT's Centre for Innovation in Learning and Teaching (CILT) grants (ARS and OE Semantic Wiki). R29270 in total.
- UCT Science Faculty Launching Grant. Project duration: 2014-2017 (3 years). R93 100.
- UKZN-funded project on isiZulu terminology development. Project duration: 2013-2014 (1 year). R56 880.

- DST/MINCYT-funded bi-lateral South Africa/Argentina Joint Science and Technology Research co-operation project with Argentina. Project duration: 2012-2015 (3 years). R280 000 on the SA-side and travel and subsistence on the AR side.
 - Y1 rated researcher in South Africa, obtained in November 2011. Incentive funding: R240 000.
 - 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.
 - Internship grant from the Laboratory of Applied ontology (LOA-CNR), Trento, Italy, in 2004.
- Total funding to date as PI, Project leader, or rated researcher: R1,004,200.

Projects

- Principal Investigator of the project entitled *A Grammar engine for Nguni natural language interfaces (GeNi)*, funded by the NRF under the Competitive Programme for Rated Researchers (CPRR) – Y-rated development grant. Project duration: 2015-2017 (3 years).
- Principal Investigator of the project entitled *Foundations for Nguni natural language generation systems*, UCT Science Faculty Launching Grant. Project duration: 2014-2017 (3 years).
- External collaborator in the project entitled *ARISTOTELES: Methodology and algorithms for automatic revision of ontologies in task based scenarios*, funded by the Polish National Science Center under the SONATA program, with PI Dr. Agnieszka Ławrynowicz, Poznan University of Technology, Poland. 2015-2018.
- Project leader of the ‘Teaching with Technology’ Centre for Innovation in Learning and Teaching (CILT)-funded project on the development of a software-based audience response system. Project duration: 2015 (1 year).
- Project leader of the ‘Open Educational Resources’ Centre for Innovation in Learning and Teaching (CILT)-funded project on the development of a Semantic Wiki for ontology engineering. Project duration: 2015 (1 year).
- Principal Investigator on *COMMUTERM: Self-sustaining community-driven online terminology development*, funded by the University of KwaZulu-Natal’s University Language Board. Project duration: 2013-2014 (1 year).
- Principal Investigator on the South African side of the DST/MINCYT-funded bi-lateral South Africa/Argentina Joint Science and Technology Research cooperation project with Argentina, entitled *Ontology-driven unification of conceptual data modelling languages*, with Prof. Pablo Fillotrani at Universidad Nacional del Sur, Bahía Blanca, as Argentinian PI. Project duration: 2012-2015 (3 years).
- Participation (external expert, as ontologist) in the EU PF7 collaborative project *e-LICO: An e-Laboratory for Interdisciplinary Collaborative Research in Data Mining and Data-Intensive Science*. Project duration: 2009-2012.

- 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* on 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: 2006-2011.

Visiting researcher

- Universitat Politècnica de Catalunya, Barcelona, Spain, June 2017, invited Erasmus Mundus Prof. on the Erasmus Mundus Master’s Programme in Information Technologies for Business Intelligence (IT4BI)/Erasmus Mundus Joint Master Degree Programme in Big Data Management and Analytics (BDMA).
- Departamento de Ciencias e Ingeniería de la Computación, Universidad Nacional del Sur, Bahía Blanca, Argentina, July 2012 and April 2014 (DST/MINCYT-funded project).
- Knowledge Representation and Reasoning, CSIR-Meraka, Pretoria, South Africa. Late July-Mid Sept 2010. (SA-IT and Net2-funded project)
- Universidad de Ciencias Informáticas, La Habana, Cuba. Late June-Mid July 2010.
- Departamento de Programación, Universidad de la Habana, Cuba, April 2010.
- Knowledge Systems Group, Meraka institute, Pretoria, South Africa. July-August 2008. (SA-IT funded project)
- Laboratory for Applied ontology (LOA-CNR), Trento, Italy, Feb-April 2004.

Seminars and Presentations

Invited talks

- Toward interoperability with DLs for evidence-based conceptual modeling language profiles. KRDB Research Centre, Free University of Bozen-Bolzano, Italy, 28 October, 2015.
- Advantages of a PhD from UniBz in starting an academic career. Research career planning and international cooperation, at the Free University of Bozen-Bolzano, Italy, October 27, 2015.
- On the unification of conceptual data modelling languages. Seminar at the Department of Computer Science, Poznan University of Technology, Poland, 16 June 2015.
- An ontology-driven unifying metamodel for UML class diagrams, EER, and ORM2. Dagstuhl seminar 13211 ‘Automated reasoning on conceptual schemas’, 20-24 May 2013.
- Semantic Computing with the WONDER System: Implementation, Challenges and Opportunities for Curriculum Development. University of South Africa, South Africa, 8 September 2010.
- Engineering rough ontologies. University of the Witwatersrand, Johannesburg, South Africa, 26 August 2010.

- Temporal Constraints on Part-Whole Relations. Universidad de las 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.
- Logic-based ontologies of environments. Locating Biology, Dagstuhl Workshop, February 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 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.
- 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)

- Test-Driven Development of ontologies. Computer Science Department, University of Cape Town, South Africa, May 26, 2016.
- Toward isiZulu Natural Language Generation. Computer Science Department, University of Cape Town, South Africa, June 12, 2014.
- Toward an ontology-driven unifying metamodel for UML class diagrams, EER, and ORM2. Presentation given at the Ontology and Conceptual Modelling Workshop, Tshwane (Pretoria), South Africa, d.d. 15-16 Nov, 2012.
- Ontology-driven formal conceptual data modelling for biological data analysis. Presentation given at the Research Session of the Masters Artificial Intelligence spring School 2011 (MAIS'11), Durban, South Africa, d.d. 27 Sept., 2011.
- Ontology engineering with rough concepts and vague instances. 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.
- Ontological and logical aspects of part-whole relations. KRDB Lunch Seminar series, 19 February 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, KWEPSY06, WSPI06, GrC06, ORM06, OWLED07, SeS07, AI*IA07, DL07, GrC07, DL08, WORM08, EMMSAD08, KR08, OWLED08, Geomatics09, RST09, GrC09, MTSR09, ORM09, AI*IA09, DL10, EKAW10, ORM10, ESWC'11, AFRICON'11, SAICSIT'11, ESWC'12, OWLED'12, EKAW'12, SAARMSTE'13, K-CAP'13, KEOD'13, MEDI'13, ER'13, RuleML'14, OWLED'14, EKAW'14, SAARMSTE'15, ADBIS'15, SAICSIT'15, ER'15, DL'16, ESWC'16, ADBIS'16, INLG'16, WebNLG'16, EKAW'16, ESWC'17, LDK'17.

Organisational activities, admin, and reviewing

Conference/Workshop Chair

- Local Chair 10th International Conference on Formal Ontologies in Information Systems (FOIS 2018), Cape Town.
- PC Chair (with Zena Wood) 3rd International School on Applied Ontology, June 27 - July 2, 2016, Bolzano, Italy.
- Chair (with Diego Calvanese, Alfredo Cuzzocrea) of the 2nd Workshop on Logics and Reasoning for Conceptual Models, April 21, 2016, Cape Town, South Africa. Co-located with DL'16 and KR'16.
- Local Chair of the Forum on AI Research 2015 (FAIR'15). UCT, Cape Town, March 2015.
- PC Chair (with Valentina Tamma) of the 11th OWL: Experiences and Directions workshop (OWLED'14), 17-18 October, 2014, Riva del Garda, Italy
- Track Chair (with Jerome Euzenat) on "Ontologies, Metadata, and Vocabularies" of the Extended Semantic Web Conference (ESWC'14), Crete, Greece, May 2014. (ISI-indexed conference)
- PC co-Chair of the "Logics and Reasoning for Conceptual Models", December 14, 2013, co-located with LPAR-19.
- Main organiser of the Masters Artificial Intelligence spring School 2011 (MAIS'11), Durban, South Africa (26-30 Sept. 2011).
- PC co-Chair of the KRDB PhD Workshop, 11 May 2007, KRDB Research Centre, Free University of Bozen-Bolzano. (with Mariano Rodríguez).

Organisational activities and university committee membership

- Member (Dean's nominee) of the Language Policy Committee, UCT; since July 2016.
- Member of the Faculty committee on Communications and Marketing, UCT; since April 2016.
- Member of the departmental subcommittee on transformation; since 2017.
- Chair (with Zena Wood) of the Education SIG of the International Association for Ontology and its Applications.
- Student competitions (Coach ACM International Collegiate Programming Contest and Standard Bank IT Challenge, 2014-present), UCT (Feb. 2014-present), Olympiad Liaison, 2014.
- Member of the Higher Degrees & Research Committee, School of Mathematics, Statistics, and Computer Science, UKZN (March 2012-Dec. 2013).
- Library Liaison for CS, UKZN (June 2011-March 2012).
- Responsible person for the KRDB seminars (10-'07/3-'10).
- 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 activities (selection):
 - Project proposal writing experience as initiator, PI, WP leader, and contributor.
 - Webmaster: LRCM'16, MAIS'11, CS PhD students website (with Mariano Rodríguez), Professors without Borders (4-'06/12-'10), Irish Peace Society (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/> (active participant from 2005 to 2007)

Program Committee member and reviewing for journals

- PC member:
 - International Semantic Web Conference 2013 (ISWC'14, ISWC'15, ISWC'17)
 - Australasian Joint Conference on Artificial Intelligence (AI'13, AI'17)
 - BigNovelTI 2017
 - 9th International Conference on Formal Ontology in Information Systems (FOIS'16)
 - Extended Semantic Web Conference (ESWC'12, ESWC'15, ESWC'16)
 - International Conference on Knowledge Engineering and Knowledge Management (EKAW'14, EKAW'16)
 - 28th International Workshop on Description Logics (DL'15, DL'16)
 - OWL: Experiences and Directions workshop (OWLED'15, OWLED'16)
 - Argentine Symposium on Ontologies and their Applications (SAOA'15)
 - International Joint Conference on Artificial Intelligence (IJCAI'15)
 - Formal Ontologies for Artificial Intelligence (FOFAI'15)
 - International Workshop on Debugging Ontologies and Ontology Mappings (WoDOOM'13, WoDOOM'14, WoDOOM'15)
 - First International Workshop on Reasoning about Preferences, Uncertainty and Vagueness (PRUV'14)
 - International Conference on Biomedical Ontology 2011 (ICBO'11, ICBO'12, ICBO'13, ICBO'14)
 - Joint Rough Set Symposium (JRS'13)
 - 27th AAAI Conference on Artificial Intelligence, "AI and the Web" track (AAAI'13)
 - 6th International Conference on Rough Sets and Knowledge Technology (RSKT'11)
 - IEEE International Conference on Granular Computing (GrC'11, GrC'12)
 - 5th International Workshop on Modular Ontologies (WoMO'11)
 - Metadata & Semantics Research Conference, Special Track on Agriculture, Food & the Environment (MTSR'10, MTSR'12)
 - 6th International Workshop on Fact-Oriented Modeling (ORM'10)
 - Australasian Ontology Workshop (AOW'09, AOW'10, AOW'11, AOW'12)
 - International Conference on Knowledge Engineering and Ontology Development (KEOD'09, KEOD'10)
 - Semantic Web Applications and Tools for the Life Sciences (SWAT4LS'08, SWAT4LS'09, SWAT4LS'10, SWAT4LS'11)
 - Knowledge Representation Ontology Workshop 2008 (KROW'08)
 - Int. Workshop Semantic Web and Health Care and Life Sciences 2008
 - Int. Workshop Network Tools and Applications in Biology 2007 (NETTAB'07)
 - Int. Workshop on Engineering Semantic Agent Systems (ESAS'06, ESAS'07, ESAS'08, ESAS'09)
- Reviewer for journals:
 - Applied Ontology
 - Artificial Intelligence in Medicine

- BMC Bioinformatics
- Concurrency and Computation: Practice and Experience
- Data & Knowledge Engineering
- Environmental Modelling & Software
- Fundamenta Informaticae
- IEEE Transactions on Fuzzy Systems
- IEEE Transactions on Knowledge and Data Engineering
- Information Research
- Information Sciences
- International Journal of Approximate Reasoning
- International Journal of Cooperative Information Systems
- International Studies in the Philosophy of Science
- Journal Of Biomedical Semantics
- Journal on Data Semantics
- Language Resources and Evaluation
- Knowledge Management Research & Practice
- Methods in Ecology and Evolution
- Semantic Web Journal
- South African Computer Journal
- Other paper reviewing (delegated):
 - 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)
 - 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)
- Project proposal reviewer for projects submitted at:
 - Fundação para a Ciência e a Tecnologia (Portuguese Foundation for Science and Technology)
 - Deutsche Forschungsgemeinschaft (German Research Foundation)
 - Research Council for Natural Sciences and Engineering at the Academy of Finland
- Reviewer NRF rating applications

Memberships

- Hasso-Plattner Institute Research School in Computer Science for Africa at UCT
- ICT4D Research Centre, UCT
- International Association for Ontology and its Applications (IAOA)
- South African Computer Olympiad Trust, as UCT representative (2014)
- South African Institute for Computer Scientists and Information Technologists (SAICSIT)
- Southern African Association for Research in Mathematics, Science, and Technology Education (SAARMSTE)

Languages

- Dutch: mother tongue
- English: fluent
- German: medium/good
- Italian: medium/good

- Spanish: medium/good
- French: very basic
- Afrikaans: ± understand
- isiZulu: extremely basic

Extra-curricular activities

- Member of *Informatici senza Frontiere* [Informaticians without borders]; 3-'10/12-'12.
- Co-founder of *Professors without Borders* (www.professorswithoutborders.net), an academic organisation that conducts, facilitates, and stimulates inter-regional peace research. I held the positions of Chairperson and Chief Publications Officer; 4-'05/2-'12.
- 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.