

# Curriculum Vitae

## PERSONAL DETAILS

Last name            Oren  
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Work address        AI department  
                          Vrije Universiteit  
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Date of birth         2 May 1979  
Nationality          Dutch and Israeli

## WORK EXPERIENCE

12/2007 – now        Postdoc researcher, *Vrije Universiteit Amsterdam*  
                          group: knowledge representation, prof. Frank van Harmelen  
                          topic: large-scale Semantic Web systems  
  
02/2004 – 10/2007    PhD fellowship, *National Univ. of Ireland, Galway*  
                          research, project management, student supervision  
  
08/2003 – 11/2003    Teacher, *Basic-IT Training, Tilburg*  
                          teaching business-oriented programming courses  
  
09/2002 – 05/2003    Internship, *ModulOr Technology, Rotterdam*  
                          development of workflow management system  
  
09/2001 – 08/2002    Teacher, *Gymnasium Haganum, Den Haag*  
                          highschool physics teacher  
  
09/1998 – 08/2001    Teaching assistant, *Delft University of Technology*  
                          supervision and examination of practical assignments

## EDUCATION

02/2004 – 11/2007    PhD, Computer Science, *DERI Galway*  
                          topic: Algorithms and Components for the Semantic Web  
                          supervisor: prof. dr. S. Decker  
                          examiner: prof. dr. F. van Harmelen  
  
02/2005 – 04/2005    visiting scholar Stanford University  
                          host: prof. dr. M. Genesereth  
  
04/2005 – 07/2005    exchange visitor Innsbruck University  
                          host: prof. dr. D. Fensel  
  
09/1997 – 05/2003    MSc, Technical Informatics, *TU Delft*  
                          specialisation: Information Systems Design  
                          supervisor: prof. dr. ir. J. Dietz  
                          thesis grade: 9 (scale 1–10)

09/1991 – 08/1997 VWO, *Scholengemeenschap het Rhedens*, Rozendaal

## LANGUAGES

Dutch	Mother tongue
English	Fluent
Hebrew	Good (spoken)
German	Good (spoken)
French	Basic skills

## SKILLS

Programming	Java, C#, Ruby, Python, Rails, SQL, Hadoop, $\LaTeX$ , XML
Development	Eclipse, Visual Studio, Emacs, VIM, CVS, SVN, Bazaar
Modelling	UML, ORM, RDF(S), OWL, WSML, IDEF, F-Logic
Industrial	SqlServer, MySQL, MS BizTalk, IBM Workflow MQ, iFlow

## SUPERVISION

09/2006 – 06/2007	Benjamin Heitmann, M.Sc. thesis Transitioning Web Application Frameworks towards the Semantic Web
06/2006 – 12/2006	Sebastian Gerke, M.Sc. thesis Simplifying Semantic Annotations in Text
01/2006 – 07/2006	Renaud Delbru, M.Sc. thesis Manipulation and Exploration of Semantic Web Knowledge

## ORGANISATION

11/2008	Proceedings Chair, ESWC 2009
03/2008	Substitute director, SIKS course on Web-based systems
12/2005	Organiser, DERI research seminar
06/2005	Organiser, W3C workshop on SWS
11/2004	Organiser, WSMO Implementation Workshop

## CONFERENCE PROGRAMME COMMITTEE

12/2008	6th Eur. Semantic Web Conference (ESWC In-Use 2009)
02/2008	23rd Int. Conference on Artificial Intelligence (AAAI 2008)
12/2007	17th Int. World-Wide Web Conference (WWW 2008)
09/2007	23rd Int. Symposium on Applied Computing (SAC 2008)
01/2007	3rd Int. Conference on Semantic Technologies

## WORKSHOP PROGRAMME COMMITTEE

01/2009	Linked Data on the Web, WWW 2009
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05/2008	Social Data on the Web, ISWC 2008
05/2008	Incentives for the Semantic Web, ISWC 2008
03/2008	Workshop on Semantic Wikis, ESWC 2008
03/2008	Semantic Metadata Management, ESWC 2008
03/2008	Scripting for the Semantic Web, ESWC 2008
02/2008	Linked Data on the Web, WWW 2008
02/2008	Social Web and Knowledge Management, WWW 2008
03/2007	Engineering Semantic Agent Systems, CompSAC 2007
11/2006	Semantic Authoring and Annotation, ISWC 2006
05/2006	Engineering Semantic Agent Systems, CompSAC 2006
06/2006	Workshop on Semantic Wikis, ESWC 2006
09/2005	Workshop on Technologies for E-Services, VLDB 2005

#### **JOURNAL REVIEWER**

03/2008	Data & Knowledge Engineering
05/2007	Int. Journal on Semantic Web and Inf. Systems
08/2005	Int. Journal of Cooperative Information Systems
07/2005	European Journal of Operational Research
05/2005	Int. Journal of Cooperative Information Systems
03/2005	ACM Transactions on Database Systems
12/2004	Data & Knowledge Engineering

#### **CONFERENCE REVIEWER**

12/2006	16th International World Wide Web Conference
07/2006	5th International Conference on Ontologies, Databases, and Applications of Semantics
05/2006	15th International Conference on Knowledge Engineering and Knowledge Management
01/2006	3rd European Semantic Web Conference
12/2005	15th International World Wide Web Conference
03/2005	5th International Conference on Web Engineering
01/2005	2nd European Semantic Web Conference

#### **PROJECT INVOLVEMENT**

Management	Co-managed the m3pe project on workflow interoperability (SFI, €243K), co-authored and initially managed the FAST project on service mashups (EU FP7 STREP, €491K, total €5.5M), involved in the proposal of the ASG project on service grids (EU FP6 IP).
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Standards Involvement in the European Semantic Web Service standardisation and development working groups, co-author of the WSMO and WSMX W3C member submissions, and co-designed the WSMX architecture for Semantic Web Service discovery and execution.

Member Involvement in the European projects Nepomuk (social Semantic desktop), inContext (collaborative work environments) and the Irish (SFI) funded project Lón (Semantic Web infrastructure).

## **SOFTWARE**

Marvin I am currently working on *MaRVIN*, a parallel and distributed platform for processing and reasoning over massive amounts of RDF data.

Sindice I lead the development of *Sindice.com* (no involvement anymore). Sindice is built on a parallel Hadoop cluster and indexes large amount of Semantic Web data using novel reasoning algorithms.

ActiveRDF I developed *ActiveRDF*, a mapping library that exposes RDF data as programmatic objects in Ruby. ActiveRDF opens Ruby on Rails for the Semantic Web.

SemperWiki I developed *SemperWiki*, a semantic personal Wiki that focuses on usability and simplicity.

WSMX I co-developed the *WSMX* system, an execution platform for semantically annotated Web services.

## **PERSONAL**

I enjoy acting on stage, in plays, musicals, cabaret and music. I like reading, listening to classical music and playing soccer.

## **REFERENCES**

Stefan Decker, DERI Galway  
Dieter Fensel, STI Innsbruck  
Frank van Harmelen, VU Amsterdam

## PUBLICATIONS

- J. URBANI, S. KOTOULAS, E. OREN, AND F. VAN HARMELEN. Scalable distributed reasoning using MapReduce. In *Proceedings of the International Semantic Web Conference (ISWC)*. Nov. 2009. To appear.
- A. HALLER, M. MARMOLOWSKI, W. GAALLOUL, E. OREN, B. SAPKOTA, AND M. HAUSWIRTH. From workflow models to executable web service interfaces. In *Proceedings of the IEEE International Conference on Web Services (ICWS)*. Jul. 2009.
- E. OREN, S. KOTOULAS, G. ANADIOTIS, R. SIEBES, A. TEN TEIJE, AND F. VAN HARMELEN. Marvin: A platform for large-scale analysis of Semantic Web data. In *Proceedings of the International Web Science conference*. Mar. 2009.
- E. OREN, J. KLEINNIJENHUIS, AND L. LAGERWERF. Predicting affective comprehension of news texts through latent semantic analysis. In *Proceedings of the International Conference on Society, Text, and Discourse*. Jul. 2008a.
- E. OREN, C. GUÉRET, AND S. SCHLOBACH. Anytime query answering in RDF through evolutionary algorithms. In *Proceedings of the International Semantic Web Conference (ISWC)*. Nov. 2008b.
- C. GUÉRET, E. OREN, S. SCHLOBACH, AND M. SCHÜT. An evolutionary perspective on approximate RDF query answering. In *Proceedings of the International Conference on Scalable Uncertainty Management*. Oct. 2008.
- E. OREN, R. DELBRU, M. CATASTA, R. CYGANIAK, H. STENZHORN, AND G. TUMMARELLO. Sindice.com: A document-oriented lookup index for open linked data. *International Journal of Metadata, Semantics and Ontologies*, 3(1):37–52, 2008c.
- E. OREN, B. HEITMANN, AND S. DECKER. ActiveRDF: embedding Semantic Web data into object-oriented languages. *Journal of Web Semantics*, 2008d.
- E. OREN. *Algorithms and Components for Application Development on the Semantic Web*. Ph.D. thesis, National University of Ireland, Galway, Nov. 2007.
- G. TUMMARELLO, R. DELBRU, AND E. OREN. Sindice.com: Weaving the open linked data. In *Proceedings of the International Semantic Web Conference (ISWC)*, pp. 552–565. Nov. 2007.
- P. KOTINURMI, A. HALLER, AND E. OREN. Ontologically enhanced RosettaNet B2B integration. In *Semantic Web Methodologies for E-Business Applications: Ontologies, Processes and Management Practices*. IGI Global, 2008.
- M. VÖLKEL, S. SCHAFFERT, AND E. OREN. Personal knowledge management with semantic technologies. In J. RECH, B. DECKER, AND E. RAS, (eds.) *Emerging Technologies for Semantic Work Environments*. IGI Global, 2008.
- E. OREN, C. MESNAGE, B. HEITMANN, A. HALLER, M. HAUSWIRTH, AND S. DECKER. A flexible integration framework for Semantic Web 2.0 applications. *IEEE Software*, 24(5):64–71, Sep. 2007a.
- U. BOJARS, B. HEITMANN, AND E. OREN. A prototype to explore content and context on social community sites. In *Proceedings of the International Conference on Social Semantic Web (CSSW)*, pp. 47–58. Sep. 2007.

- C. MESNAGE AND E. OREN. Extending Ruby on Rails for Semantic Web applications. In *Proceedings of the International Conference on Web Engineering*, pp. 506–510. Jul. 2007.
- E. OREN, S. GERKE, AND S. DECKER. Simple algorithms for predicate suggestions using similarity and co-occurrence. In *Proceedings of the European Semantic Web Conference (ESWC)*, pp. 160–174. Jun. 2007b.
- E. OREN AND G. TUMMARELLO. A lookup index for semantic web resources. In *Proceedings of the ESWC Workshop on Scripting for the Semantic Web*, pp. 71–78. Jun. 2007.
- B. HEITMANN AND E. OREN. Leveraging existing web frameworks for a SIOC explorer to browse online social communities. In *Proceedings of the ESWC Workshop on Scripting for the Semantic Web*, pp. 52–61. Jun. 2007.
- E. OREN, R. DELBRU, S. GERKE, A. HALLER, AND S. DECKER. ActiveRDF: Object-oriented semantic web programming. In *Proceedings of the International World-Wide Web Conference*, pp. 817–823. May 2007c.
- A. HALLER, P. KOTINURMI, T. VITVAR, AND E. OREN. Handling heterogeneity in RosettaNet messages. In *Proceedings of the Annual ACM Symposium on Applied Computing (SAC)*, pp. 1368–1374. Mar. 2007.
- E. OREN. An overview of information management and knowledge work studies: Lessons for the semantic desktop. In *Proceedings of the ISWC Workshop on the Semantic Desktop*. Nov. 2006.
- E. OREN, R. DELBRU, AND S. DECKER. Extending faceted navigation for RDF data. In *Proceedings of the International Semantic Web Conference (ISWC)*, pp. 559–572. Nov. 2006a.
- E. OREN, M. VÖLKELE, J. G. BRESLIN, AND S. DECKER. Semantic wikis for personal knowledge management. In *Proceedings of the International Conference on Database and Expert Systems Applications (DEXA)*, pp. 509–518. Sep. 2006b.
- A. HALLER, E. OREN, AND P. KOTINURMI. m3po: An ontology to relate choreographies to workflow models. In *Proceedings of the IEEE International Conference on Services Computing (SCC)*, pp. 19–27. Aug. 2006a.
- M. VÖLKELE AND E. OREN. Towards a Wiki Interchange Format (WIF) – opening semantic wiki content and metadata. In *Proceedings of the ESWC Workshop on Semantic Wikis*. Jun. 2006.
- E. OREN AND R. DELBRU. ActiveRDF: Object-oriented RDF in Ruby. In *Proceedings of the ESWC Workshop on Scripting for the Semantic Web*, pp. 11–20. Jun. 2006.
- E. OREN, R. DELBRU, K. MÖLLER, M. VÖLKELE, AND S. HANDSCHUH. Annotation and navigation in semantic wikis. In *Proceedings of the ESWC Workshop on Semantic Wikis*. Jun. 2006c.
- A. HALLER AND E. OREN. m3pl: A work-FLOWS ontology extension to extract choreography interfaces. In *Proceedings of the ESWC Workshop on Semantics for Business Process Management*. Jun. 2006.

- A. HALLER, E. OREN, AND P. KOTINURMI. An ontology for internal and external business processes. In *Proceedings of the International World-Wide Web Conference*, pp. 1055–1056. May 2006b.
- E. OREN, J. G. BRESLIN, AND S. DECKER. How semantics make better wikis. In *Proceedings of the International World-Wide Web Conference*, pp. 1071–1072. May 2006d.
- E. OREN. SemperWiki: a semantic personal Wiki. In *Proceedings of the ISWC Workshop on the Semantic Desktop*. Nov. 2005.
- A. HALLER, E. CIMPIAN, A. MOCAN, E. OREN, AND C. BUSSLER. WSMX - A semantic service-oriented architecture. In *Proceedings of the IEEE International Conference on Web Services (ICWS)*, pp. 321–328. Jul. 2005.
- C. BUSSLER, E. CIMPIAN, D. FENSEL, J. M. GOMEZ, A. HALLER, T. HASELWANTER, M. KERRIGAN, A. MOCAN, M. MORAN, E. OREN, B. SAPKOTA, I. TOMA, J. VISKOVA, T. VITVAR, M. ZAREMBA, AND M. ZAREMBA. Web service execution environment (WSMX). W3C Member Submission, Jun. 2005.
- J. DE BRUIJN, C. BUSSLER, J. DOMINGUE, D. FENSEL, M. HEPP, U. KELLER, M. KIFER, B. KÖNIG-RIES, J. KOPECKY, R. LARA, H. LAUSEN, E. OREN, A. POLLERES, D. ROMAN, J. SCICLUNA, AND M. STOLLBERG. Web service modeling ontology (WSMO). W3C Member Submission, Jun. 2005.
- E. OREN. WSMX execution semantics – executable software specification. In *Proceedings of the Workshop on WSMO Implementations*. Sep. 2004.
- E. OREN, A. WAHLER, B. SCHREDER, A. BALABAN, M. ZAREMBA, AND M. ZAREMBA. Demonstrating WSMX – least cost supply management. In *Proceedings of the Workshop on WSMO Implementations*. Sep. 2004.
- E. OREN AND J. L. G. DIETZ. Development of a DEMO based workflow management system. In *First International DEMO Workshop*. May 2003.
- E. OREN. *Van DEMO naar Workflow Management*. Master’s thesis, Delft University of Technology, Apr. 2003. In Dutch.

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