

# Curriculum Vitae

## PERSONAL DETAILS

Last name Oren  
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Date of birth 2 May 1979  
Nationality Dutch and Israeli

## WORK EXPERIENCE

12/2007 – now Postdoc researcher, *Vrije Universiteit Amsterdam*  
09/2006 – 10/2007 Research assistant, *National Univ. of Ireland, Galway*  
project management, student supervision, research dissemination  
02/2004 – 08/2006 PhD fellowship, *National Univ. of Ireland, Galway*  
08/2003 – 11/2003 Teacher, *Basic-IT Training, Tilburg*  
teaching Microsoft 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*  
title: Algorithms and Components for Application Development on 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)

09/1998 – 08/1999 Political Science, *Leiden University*  
 09/1991 – 08/1997 VWO, *Scholengemeenschap 'het Rhedens'*, Rozendaal  
 subjects: dutch, english, physics, chemistry, mathematics, economics,  
 history; grade average: 8 (scale 1–10)

## 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

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

02/2008	23rd International Conference on Artificial Intelligence
12/2007	17th International World-Wide Web Conference
09/2007	23rd International Symposium on Applied Computing
01/2007	3rd International Conference on Semantic Technologies

## WORKSHOP PROGRAMME COMMITTEE

05/2008	Social Data on the Web, ISWC 2008
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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**

**Sindice** I was lead developer of *Sindice.com*, a Semantic Web lookup service. Sindice is built on a parallel Hadoop cluster and indexes large amount of Semantic Web data using novel reasoning algorithms.

**ActiveRDF** I have developed *ActiveRDF*, a mapping library that exposes RDF data as programmatic objects in Ruby, including querying and schema support. ActiveRDF integrates with Ruby on Rails into a rapid application framework for the Semantic Web.

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

**WSMX** I co-developed the WSMX system. I designed the WSML grammar and developed the WSMX parser component.

## **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

- 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. To appear.
- 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: Techniques, Methods, and Applications*. IGI Global, 2008. To appear.
- 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), 2008a. To appear.
- E. OREN, B. HEITMANN, AND S. DECKER. ActiveRDF: embedding Semantic Web data into object-oriented languages. *Journal of Web Semantics*, 2008b. To appear.
- 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.
- E. OREN, R. DELBRU, S. GERKE, B. HEITMANN, AND S. DECKER. Application development on the Semantic Web. *ACM Transactions on the Web*, Oct. 2007a. Submitted.
- 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. 2007b.
- 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. 2007c.
- 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 2007d.

- 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. VÖLKEL, 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. VÖLKEL 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. VÖLKEL, 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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