

## Curriculum Vitae for Melike Şah Direkoğlu

**Qualifications:** PhD, MSc, BSc

**Gender:** Female

**Nationality:** TRNC

**Employer:** Department of Computer Engineering, Near East University, TRNC

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**I am a successful scientist with international research and teaching experiences,  
as well as a proud mother of a daughter.**

### Qualifications

<b>Doctor of Philosophy (Ph.D)</b> October 2005 - June 2009	<b>PhD in Semantic Web and Adaptive Hypermedia Systems</b> from <b>University of Southampton, UK.</b>
<b>Master of Science (MSc)</b> September 2003 - June 2005	<b>MSc in Computer Engineering</b> from <b>Eastern Mediterranean University, TRNC</b> , with thesis on <b>Forecasting Models using Fuzzy Time Series. High Honour</b> with grade <b>3.90/4.00.</b>
<b>Bachelor of Science (BSc)</b> September 1999 - June 2003	<b>BSc in Computer Engineering</b> from <b>Eastern Mediterranean University, TRNC. High Honour</b> with grade <b>3.60/4.00.</b>

### Employment

<b>Faculty</b> October 2014 – to date	<b>Full-time Faculty (Assist. Prof. Dr.)</b> at Computer Engineering Department, <b>Near East University, TRNC.</b> Lecturing Theory of Computation (COM 555 – master course), Semantic Web Technologies (COM 556 – master course), Object Oriented Programming II (Java), Sayisal Mantik Sistemleri (BLG211, logic design in Turkish), Programlama Dilleri Kavrami (BLG339 – Programming Language Concepts in Turkish) and Nesneye Yonelik Programlama (BLG210 – Object Oriented Programming in Turkish).
<b>Research Fellow</b> October 2012 - August 2014	<b>Research Fellow</b> at <b>Trinity College Dublin, Ireland.</b> <b>Research Group:</b> Centre for Global Intelligent Content, which is a project that involves multiple universities and industry partners. <b>Research Field:</b> Developing personalized search interfaces for the linked open data, and collaborating with other post-docs and PhD students in the field of multilingual personalized search.
<b>IRCSET EMPOWER Research Fellow</b> November 2010 – October 2012	<b>IRCSET EMPOWER Research Fellow</b> at <b>Trinity College Dublin, Ireland.</b> <b>Research Group:</b> Knowledge and Data Engineering Group (KDEG), School of Computer Science and Statistics. <b>Project Field:</b> Received an early career post-doctoral research funding award to carry out research on personalized search and discovery on the linked open data.
<b>Postdoctoral Researcher</b> December 2009 - November 2010	<b>Postdoctoral Researcher</b> at <b>Trinity College Dublin, Ireland.</b> <b>Research Group:</b> Centre for Next Generation Localisation, which is a project that involves multiple universities and industry partners. <b>Project Field:</b> Automatic data mining and automatic knowledge generation from multilingual enterprise content. In particular, I collaborated with Symantec and Microsoft.
<b>Demonstrator</b> Fall 2008	<b>Demonstrator</b> of Contemporary Programming Methods course at <b>University of Southampton, United Kingdom.</b>
<b>Teaching Assistant</b> September 2003 – June 2005	<b>Teaching Assistant</b> of 11 courses at Computer Engineering Department, <b>Eastern Mediterranean University, TRNC.</b>

## Publications

### JOURNALS

**Note:** 5 publications in journals, 4 as lead author. *Journal of Web Semantics* and *Journal on Semantic Web and Information Systems* are **top ranking journals** in Semantic Web (according to Microsoft Academic Research: <http://academic.research.microsoft.com/>). In addition, I have **1** journal papers under review.

1. **Melike Şah** and Wendy Hall. *Dynamic Linking and Personalization on the Web using Linked Open Data*. **International Journal on Semantic Web and Information Systems**, Volume 9, Issue 2, pp. 31-61, **2013**. **2012 impact factor: 2.308**.
2. **Melike Şah** and Wendy Hall. *A Personalized Semantic Portal for Enhanced User Support*. **New Review of Hypermedia and Multimedia**, Volume 19, Issue 1, pp. 25-60, **2013**. **2012 impact factor: 0.259**.
3. **Melike Şah** and Vincent Wade. *Automatic Metadata Mining from Multilingual Enterprise Content*. **Journal of Web Semantics: Science, Services and Agents on the World Wide Web**, Vol. 11, pp. 41-62, **2012**. **5 year impact factor: 3.049**.
4. **Melike Şah** and Konstantin Y. Degtiarev. *Forecasting Enrollment Model Based on First-Order Fuzzy Time Series*. In **World Academy of Science, Engineering and Technology**, Volume 1, pp. 375-378, 2005.
5. Jinwu Li, Vincent Wade and **Melike Şah**. *Developing Knowledge Models of Social Media: A Case Study on LinkedIn*. **Open Journal of Semantic Web**, 1(2), pp.1-24, **2014**.

### UNDER REVISION JOURNALS

6. **Melike Şah** and Vincent Wade. *Personalized Concept-based Search on the Linked Open Data*. **Accepted with Minor Revisions to the Journal of Web Semantics: Science, Services and Agents on the World Wide Web**.
7. Arsalan Rahman Mirza and **Melike Şah**. *Automated Software System for Checking the Structure and Format of ACM SIG Documents*. **Submitted to the New Review of Hypermedia and Multimedia**.

### CONFERENCES

**Note:** 14 publications in peer-reviewed conferences, **14** as lead author. **ESWC** is one of the top conferences in Semantic Web. **WWW**, **HT** and **CIKM** are the top conferences in Web. **AH** and **UMAP** are the top conference in personalization.

1. **Melike Şah** and Vincent Wade. *Evaluation of Personalized Concept-Based Search and Ranked Lists over Linked Open Data*. **Conference on User Modelling, Adaptation and Personalization (UMAP)**, 2014.
2. **Melike Şah** and Vincent Wade. *Personalized Concept-based Search and Exploration on the Web of Data using Results Categorization*. **Extended Semantic Web Conference (ESWC 2013)**, May 2013.
3. **Melike Şah** and Vincent Wade. *A Novel Concept-based Search for the Web of Data using UMBEL and a Fuzzy Retrieval Model*. **Extended Semantic Web Conference (ESWC 2012)**, pp. 103-118, May 2012.
4. **Melike Şah** and Vincent Wade. *A Novel Concept-based Search for the Web of Data* (Demo paper). **International Conference on Semantic Systems (I-SEMANTICS 2012)** held with **I-KNOW 2012**, September 2012.
5. **Melike Şah** and Vincent Wade. *Automatic Mining of Cognitive Metadata using Fuzzy Inference*. **ACM Conference on Hypertext and Hypermedia (HT 2011)**, pp. 37-46, June 2011.
6. **Melike Şah** and Vincent Wade. *Automatic Metadata Extraction from Multilingual Enterprise Content*. **ACM International Conference on Information and Knowledge Management (CIKM 2010)**, pp. 1665-1668, October 2010.
7. **Melike Şah**, Wendy Hall and David C. De Roure. *Dynamic Linking and Personalization on Web*. **ACM Symposium on Applied Computing, Semantic Web and Its Applications Track**, pp. 1404-1410, April 2010.
8. **Melike Şah**, Wendy Hall and David C. De Roure. *SemWeB Semantic Web Browser – Improving Browsing Experience with Semantic and Personalized Information and Hyperlinks*. **National Symposium for Humanities and Technology**, July 2009.
9. **Melike Şah**, Wendy Hall and David C. De Roure. *Designing a Personalized Semantic Web Browser*. **International**

**Conference on Adaptive Hypermedia and Adaptive Web-Based Systems (AH 2008)**, LNCS, Vol. 5149, pp. 333-336, 2008.

10. **Melike Şah**, Wendy Hall and David C. De Roure. *SemWeB: A Semantic Web Browser for Supporting the Browsing of Users using Semantic and Adaptive Links*. **International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems (AH 2008)**, LNCS, Vol. 5149, pp. 431-436, 2008.
11. **Melike Şah** and Wendy Hall. *Building and Managing Personalized Semantic Portals*. **16th International World Wide Web Conference (WWW 2007)**, pp. 1227-1228, 2007.
12. **Melike Şah**, Wendy Hall, Nicholas M Gibbins, and David C De Roure. *SEMPort - A Personalized Semantic Portal*. **18th ACM Conference on Hypertext and Hypermedia**, 2007.
13. **Melike Şah** and Konstantin Y. Degtiarev. *A New Trend Heuristic Time-variant Fuzzy Time Series Method for Forecasting Enrollments*. **International Symposium on Computer and Information Sciences (ISCIS 2005)**, LNCS, Vol. 3733, 553-564, October 2005.
14. **Melike Şah** and Konstantin Y. Degtiarev. *Forecasting Enrollment Model based on First-Order Fuzzy Time Series*. **International Conference on Computational Intelligence (ICCI 2004)**, December 2004.

## Teaching and Supervision

### TEACHING

- **Lecturing** Theory of Computation (COM 555 – master course), Semantic Web Technologies (COM 556 – master course), Object Oriented Programming II (Java), Sayisal Mantik Sistemleri (BLG211, logic design in Turkish), Programlama Dilleri Kavrami (BLG339 – Programming Language Concepts in Turkish) and Nesneye Yonelik Programlama (BLG210 – Object Oriented Programming in Turkish) at **Computer Engineering Department of Near East University**. Preparing my own teaching materials, project assignments, laboratory classes, as well as, setting and marking exams.
- **Lecturing** part of the third year course “Information Management II” in School of Computer Science and Statistics, **Trinity College Dublin** in 2011-2012. Preparing my own teaching materials.
- **Demonstrator** of Contemporary Programming Methods 2<sup>nd</sup> year course at **University of Southampton** in fall 2008. Supported students during the lab and marked lab work.
- **Teaching Assistant** of 11 courses at Computer Engineering Department, **Eastern Mediterranean University**, North Cyprus between September 2003 and June 2005. In particular, I involved in the development of laboratory classes, assisted lab works, as well as marked lab work and assignments of the following courses: Introduction to Programming, Object-Oriented Programming, Internet Programming, Data structures, Visual Programming, Systems Programming, Computer Networks, Programming Languages Design, Database management Systems II, Operating Systems and Electric Circuits I.

### SUPERVISION

- **Supervisor** of Arsalan Rahman Mirza, “**Automated Software System for Checking the Structure and Format of ACM SIG Documents**”, 2015, Department of Software Engineering, Near East University (Completed).
- **Supervisor** of Jinwu Li, “**Developing Knowledge Models of Social Media over the World Wide Web**”, MSc Thesis, 2012-2013 (completed), School of Computer Science and Statistics, Trinity College Dublin.
- **Supervisor** of Lin Yue, “**Leveraging Power of Social Media through Data Visualization**”, MSc Thesis, 2012-2013 (completed), School of Computer Science and Statistics, Trinity College Dublin.
- **Co-Supervisor** of Robert Beirne, “**Film/Movie Finder: Searching and Accessing Movies using DBpedia**”, 4th year undergraduate project, 2012 (completed), School of Computer Science and Statistics, Trinity College Dublin.
- **Co-supervisor** of Caroline Burgess, “**Harnessing User Input to Improve Linked Data Fidelity**”, MSc Thesis, 2009-2010 (completed), School of Computer Science and Statistics, Trinity College Dublin.

## Awards and Distinctions

- **IRCSET EMPOWER research fellow award** for 2 years at School of Computer Science and Statistics, Trinity College Dublin. One of the receivers of the award among the other three in Computer Science from a total of 450 applications.
- **EPSRC PhD tuition fee award** for 3 years at School of Electronics and Computer Science, University of Southampton.
- **Teaching assistant scholarship** for 2 years at Computer Engineering Department, Eastern Mediterranean University.
- **1 honour (GPA was higher than 3.00 out of 4.00) and 6 high honour (GPA was higher than 3.50 out of 4.00) awards** during undergraduate degree from Computer Engineering Department of Eastern Mediterranean University.

### Reviewer for

- Journal of Web Engineering
- Information Sciences (Elsevier)
- International Journal on Advances in Intelligent Systems (IARIA Journals)
- (2012, 2011) International Conference on User Modeling, Adaptation and Personalization (UMAP).
- (2014, 2013) International Conference on User Modeling, Adaptation and Personalization (UMAP) Doctoral Consortium.
- (2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008) ACM Symposium on Applied Computing (SAC) - The Semantic Web and Applications.
- (2015, 2014, 2013, 2012, 2011, 2010, 2009) International Conference on Advances in Semantic Processing (SEMAPRO).
- (2012) Intelligent Exploration of Semantic Data (IESD 2012) International Workshop at EKAW2012
- (2009) The Joint International Workshop on Metamodels, Ontologies, Semantic Technologies, and Information Systems for the Semantic Web.
- (2008) International Workshop on Ontologies and Information Systems for the Semantic Web in Conjunction with ACM 17th Conference on Information and Knowledge Management.
- (2008) International Workshop on Ontologies in Interactive Systems in Conjunction with British Computer Society (BCS).

### Organizer Roles

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|------------------------------|--|
| October 2010 – August 2014   | <b>Organizing weekly seminars</b> at KDEG, <b>Trinity College Dublin</b> . I arrange speakers, the venues and circulate email notifications.   |
| June 2012 – October 2012     | <b>Co-organizer</b> of Intelligent Exploration of Semantic Data (IESD 2012) <b>International Workshop</b> at EKAW 2012, October 2012, Galway, Ireland. My main duties was creating a semantic web application challenge and handling its administration, reviewing papers and deciding on publications on the final proceedings. |
| November 2011 – January 2012 | <b>Co-organizer</b> of KDEG Annual <b>Workshop, Trinity College Dublin</b> , January 2012. My duty was creation of the workshop program which involved arrangement of the speakers and team activities. In addition, presented a visual analysis of the research group's collaboration activities.                               |
| January 2011                 | <b>Organized</b> a " <b>Team Event</b> " called "Do you think all technological advances are necessary?" at KDEG Workshop, <b>Trinity College Dublin</b> .   |

### Editorial Board

- Open Journal of Sematic Web

### Patents

- One **provisional US patent** filed, which is called "**Method and System for Searching Data using UMBEL and a Fuzzy Retrieval Model**" for my research in Trinity College Dublin, June 2012.

## Invited Seminars

1. "From Document Web to Data Web: Supporting Users with Personalized Browsing and Search using Semantic Data", School of Electronics, Electrical Engineering and Computer Science, **Queen's University Belfast, Northern Ireland**, 18 May 2012
2. "A Novel Concept-based Search for the Web of Data", Knowledge and Data Engineering Group (KDEG) Seminar Series, **Trinity College Dublin, Ireland**, 18 April 2012.
3. "Automatic Metadata Extraction from Multilingual Enterprise Content", Knowledge and Data Engineering Group (KDEG) Seminar Series, **Trinity College Dublin, Ireland**, 25 January 2011.
4. "Dynamic Linking and Personalization on Web", Knowledge and Data Engineering Group (KDEG) Seminar Series, **Trinity College Dublin, Ireland**, 14 December 2009.
5. "SemWeB - A Semantic Web Browser for Supporting Open-Corpus Linking and Adaptive Hypermedia", Seminar at the School of Computing, **University of Leeds, UK**, 28 November 2008.
6. "Designing a Personalized Semantic Web Browser", Seminar at the School of Electronics and Computer Science, **University of Southampton, UK**, 14 April 2008.

## Presentations

### ORAL PRESENTATIONS

1. "A Novel Concept-based Search for the Web of Data using UMBEL and a Fuzzy Retrieval Model", **Extended Semantic Web Conference (ESWC 2012)**, Crete, **Greece**, May 2012.
2. "Automatic Metadata Extraction for Personalization", Centre for Next Generation Localisation Autumn Scientific Meeting, **Trinity College Dublin, Ireland**, 17 November 2011.
3. "Automatic Mining of Cognitive Metadata using Fuzzy Inference", **ACM Conference on Hypertext and Hypermedia**, **Eindhoven, Netherlands**, June 2011.
4. "Automatic Metadata Generation from Enterprise Content for Personalization", Centre for Next Generation Localisation Spring Scientific Meeting, **University of Limerick, Ireland**, April 2010.
5. "SemWeB Semantic Web Browser – Improving Browsing Experience with Semantic and Personalized Information and Hyperlinks", **National Symposium for Humanities and Technology**, **Southampton**, June 2009
6. "SemWeB: A Semantic Web Browser for Supporting the Browsing of Users using Semantic and Adaptive Links", **International Conference on Adaptive Hypermedia and Adaptive Web-based Systems**, **Hannover, Germany**, July 2008.
7. "Forecasting Enrollment Model based on First-Order Fuzzy Time Series", **International Conference on Computational Intelligence**, **Istanbul, Turkey**, December 2004.

### POSTER PRESENTATIONS

1. "Automatic Metadata Extraction from Multilingual Enterprise Content", **ACM International Conference on Information and Knowledge Management (CIKM 2010)**, **Toronto, Canada**, October 2010.
2. "Personalization on the Semantic Web", Centre for Next Generation Localisation Autumn Scientific Meeting, Croke Park, **Dublin, Ireland**, 16 November 2011.
3. "Personalization on the Semantic Web", IRCHSS/IRCSET Fellowships Symposium, **Dublin, Ireland**, June 2011.
4. "Designing a Personalized Semantic Web Browser", **International Conference on Adaptive Hypermedia and Adaptive Web-based Systems**, **Hannover, Germany**, July 2008.
5. "SEMPort - A Personalized Semantic Portal", **ACM Conference on Hypertext and Hypermedia**, **Manchester, UK**, September 2007.