

## CURRICULUM VITAE

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# Dr. Michael Hausenblas

Date Of Birth 3rd July 1975

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### Short Bio

Michael is a Research Fellow at [DERI](#), NUI Galway, Ireland where he leads the Linked Data Research Centre (10 people). He is the co-ordinator of the European Commission FP7 LOD Around-The-Clock ([LATC](#)) Support Action and involved in several efforts in the Open Data realm as well as chairing of and contributing to a number of Linked Data activities in W3C.

He primarily researches into Big Data, RESTful systems, NoSQL datastores, and cloud computing infrastructure with a focus on Linked Data. He blogs about his experiences on <http://webofdata.wordpress.com/> and is the General Chair of the European Data Forum ([EDF](#)) 2013.

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### Positions

11/2010 – ongoing	Research Fellow and head of DERI's Linked Data Research Centre, NUI Galway.
11/2008 – 11/2010	Postdoctoral researcher in the Data Intensive Infrastructure Unit, Digital Enterprise Research Institute (DERI), National University of Ireland, Galway.
2001 – 2008	Researcher in the area of Semantic Web focusing on Multimedia at the Institute DIGITAL at JOANNEUM RESEARCH Forschungsgesellschaft mbH, Austria.

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### Professional Activities

2012 – ongoing	European Data Forum – Program Chair (2012) and General Chair (2013).
2011 – ongoing	Founder, <a href="http://publishing-pipeline.com">http://publishing-pipeline.com</a>
2009 – ongoing	Contributor to pan-European Government Data portal, initiator of Open Data Ireland.
2008 – ongoing	Participation and lead in international research projects:

	<ul style="list-style-type: none"> <li>▪ Linked Open Data Around-The-Clock (LATC)</li> <li>▪ Creating Knowledge out of Interlinked Data (LOD2)</li> <li>▪ Intelligent Metadata-driven Processing and distribution of audiovisual media (iMP)</li> <li>▪ Domain Driven Design and Mashup Oriented Development based on Open Source Java Metaframework for Pragmatic, Reliable and Secure Web Development (Romulus)</li> </ul>
2006 – ongoing	<b>World Wide Web Consortium (W3C)</b> <ul style="list-style-type: none"> <li>▪ Member of <i>Government Linked Data Working Group</i> (since 2011)</li> <li>▪ Initiator of <i>WebID Incubator Group</i> (since 2011)</li> <li>▪ Co-chair of <i>RDB2RDF Working Group</i> (since 2009)</li> <li>▪ Member of <i>Media Fragments Working Group</i> (since 2008)</li> <li>▪ Member of <i>RDB2RDF Incubator Group</i> (2008/2009)</li> <li>▪ Member of <i>RDFa Task Force</i> (2006 – 2009)</li> <li>▪ Member of <i>Multimedia Semantics Incubator Group</i> (2006)</li> </ul> <b>Community Standards</b> <ul style="list-style-type: none"> <li>▪ <i>VoID, the Vocabulary of Interlinked Datasets</i> (since 2008)</li> <li>▪ <i>SCOVO, the Statistical Core Vocabulary</i> (since 2008)</li> </ul>
2003 – ongoing	<ul style="list-style-type: none"> <li>▪ Published over 50 papers at conferences, workshops and in journals.</li> <li>▪ Gave tutorials at major conferences (World Wide Web Conference, International Semantic Web Conference).</li> <li>▪ Co-organized the Workshop on Linked Data on the Web at WWW10 and WWW11.</li> <li>▪ Served on over 60 Programme and Organisation Committees in various conferences and workshops.</li> <li>▪ Member of the Editorial Board of the International Journal of Web Engineering and Technology (IJWET).</li> </ul>
2001 – 2008	Participation in international research projects: <ul style="list-style-type: none"> <li>▪ New Media for a New Millennium</li> <li>▪ Knowledge space of semantic inference for automatic annotation &amp; retrieval of multimedia content</li> <li>▪ Integrated Project - Research Area Cinema</li> <li>▪ Scalable Exhibition Server (SCALEX)</li> </ul>

## Education and University Studies

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09/2008	PhD viva voce. Holding a Doctor technicae (Dr. techn.) from the Graz University of Technology, Austria
2004 – 2008	Doctoral studies at <a href="#">Graz University of Technology</a> , Austria
04/2004	Final diploma examination. Holding a Master of Science (MSc.) from the Graz University of Technology, Austria
1995 – 2004	University studies of Telematics at Graz University of Technology, Austria.

## Internships

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07-08/2000	JOANNEUM RESEARCH in Graz, Austria (GIS application development)
07-10/1998	Shell SIEP/EPT-IS in Rijswijk, Netherlands (Web-application design)
07-10/1997	Shell SIEP/EPT-IM in Rijswijk, Netherlands (Java programming and Web design)
07/1996	Philips in Klagenfurt, Austria (professional electronic department)
07/1993	Siemens in Klagenfurt, Austria
08/1992	Philips in Klagenfurt, Austria
07-08/1991	Max-Planck-Institute in Grenoble, France (electronic workshop)
07/1990	Max-Planck-Institute in Grenoble, France (mechanical workshop)

## Competencies

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<b>Software Development</b>	Primary Languages: <i>JavaScript (jQuery, Node.js) and Python</i> Secondary Languages: <i>PHP, Java, C++</i> Environments: <i>TextMate, Eclipse, Git, Mercurial, SVN, Nodester, GAE</i> Repositories: <a href="https://github.com/mhausenblas/">https://github.com/mhausenblas/</a> <a href="http://code.google.com/u/Michael.Hausenblas/">http://code.google.com/u/Michael.Hausenblas/</a>
<b>Data</b>	Semantic Web/Linked Data: <i>Schema.org, RDF, SPARQL, vocabulary engineering</i> Web Data/structured data: <i>JSON, CSV, Atom</i>
<b>Soft Skills</b>	Experienced in running international research projects High social competence Visionary and creative Intercultural alignment Good portion of humour

## Languages & Additional Qualifications

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German	Native language
English	Fluent (oral and written)
Dutch	Fair (3-month beginners course in summer 1997 and additional practice in 1998)
French	Basic
1994/1995	Military Service

## Refereed Publications

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### 2012

S. Auer, L. Bühmann, J. Lehmann, **M. Hausenblas**, S. Tramp, B. van Nuffelen, P. Mendes, C. Dirschl, R. Isele, H. Williams and O. Erling. *Managing the life-cycle of Linked Data with the LOD2 Stack*. In: International Semantic Web Conference (ISWC), Semantic Web in Use Track, 2012.

N. A. Rakhmawati and **M. Hausenblas**. *On the Impact of Data Distribution in Federated SPARQL Queries*. In: Workshop on Distributional Data Semantics (DiDaS), International Conference on Semantic Computing, 2012.

A. Iqbal and **M. Hausenblas**. *Integrating Developer-related information across Open Source Repositories*. In: IEEE International Conference on Information Reuse and Integration (IRI), 2012.

### 2011

**M. Hausenblas**. *Utilising Linked Open Data in applications*. In: Proceedings of the International Conference on Web Intelligence, Mining and Semantics: 7:1-7:4, ACM Sogndal, Norway, 2011.

R. Cyganiak, **M. Hausenblas**, E. McCuirc. *Official Statistics and the Practice of Data Fidelity*. In: David Wood (ed.), Linking Government Data, 2011.

C. Gueret, P. Groth, J. Lehmann, **M. Hausenblas**. *Analysis and Improvement of Semantic Links in a Web-scale Data Network*. In: IEEE Symposium on Large-Scale Data Analysis and Visualization, 2011.

E. Kalampokis, **M. Hausenblas**, K. Tarabanis. *Combining Social and Government Open Data for Participatory Decision-Making*. In: Proceedings of third international conference on eParticipation (ePart 2011), Springer, 2011.

**M. Hausenblas**. *On Entities and their Boundaries in the Web of Data*. In: E. Wilde and C. Pautasso (ed.), REST: From Research to Practice, Springer 2011.

### 2010

E. Mannens, D. Van Deursen, R. Troncy, S. Pfeiffer, C. Parker, Y. Lafon, J. Jansen, **M. Hausenblas**, R. Van de Walle. *A URI-based approach for addressing fragments of media resources on the Web*. Multimedia Tools and Applications, Springer, 2010.

J. Umbrich, B. Villazon-Terrazas, **M. Hausenblas**. *Dataset Dynamics Compendium: Where we are so far!* Consuming Linked Data Workshop (COLD), Workshop at the 9th International Semantic Web Conference (ISWC), Shanghai, China, 2010.

A. Haller, J. Umbrich, **M. Hausenblas**. *RaUL: RDFa User Interface Language – A data processing model for web applications*. 11th International Conference on Web Information System Engineering (WISE2010), Hong Kong, China, 2010.

D. Le Phuoc, J. X. Parreira, **M. Hausenblas**, Y. Han, M. Hauswirth. *Live linked open sensor database*. 6th International Conference on Semantic Systems, ACM New York, NY, USA, 2010.

J. Umbrich, **M. Hausenblas**, A. Hogan, A. Polleres, S. Decker. *Towards Dataset Dynamics: Change Frequency of Linked Open Data Sources*. Linked Data on the Web Workshop (LDOW) at 19th International World Wide Web Conference, Raleigh, North Carolina, USA, 2010.

M. Kelly, **M. Hausenblas**. *Using HTTP Link: Header for Gateway Cache Invalidation*. International Workshop on RESTful Design (WS-REST) at 19th International World Wide Web Conference, Raleigh, North Carolina, USA, 2010.

**M. Hausenblas**, M. Karnstedt. *Understanding Linked Open Data as a Web-Scale Database*. International Conference on Advances in Databases, Knowledge, and Data Applications, 2010.

D. Vrandecic, C. Lange, **M. Hausenblas**, J. Bao, L. Ding. *Semantics of Governmental Statistics Data*. Web Science Conference 2010: Extending the Frontiers of Society On-Line, 2010.

K. Möller, **M. Hausenblas**, R. Cyganiak, S. Handschuh, G. Grimnes. *Learning from Linked Open Data Usage: Patterns & Metrics*. Web Science Conference 2010: Extending the Frontiers of Society On-Line, 2010.

## 2009

J. Jankowski, Y. Cobos, **M. Hausenblas**, S. Decker. *Accessing Cultural Heritage using the Web of Data*. 10th International Symposium on Virtual Reality, Archaeology and Cultural Heritage VAST 2009, St.Julians, Malta, 2009.

J. Umbrich, H. Glaser, T. Hastrup, I. C. Millard, **M. Hausenblas**. *Web of Data Plumbing - Lowering the Barriers to Entry*. Posters and Demos at the 8th International Semantic Web Conference (ISWC 2009), Washington DC, USA, 2009.

E. Wilde, **M. Hausenblas**. *RESTful SPARQL? You Name It! Aligning SPARQL with REST and Resource Orientation*. Workshop on Emerging Web Services Technology (WEWST09 at the European Conference on Web Services (ECOWS), Eindhoven, The Netherlands, 2009.

A. Iqbal, O. Ureche, **M. Hausenblas**, G. Tummarello. *LD2SD: Linked Data Driven Software Development*. 21st International Conference on Software Engineering and Knowledge Engineering (SEKE 09), 2009.

K. Alexander, R. Cyganiak, **M. Hausenblas**, J. Zhao. *Describing Linked Datasets - On the Design and Usage of void, the 'Vocabulary of Interlinked Datasets'*. Linked Data on the Web Workshop (LDOW) at WWW, 2009.

N. Toupikov, J. Umbrich, R. Delbru, **M. Hausenblas**, G. Tummarello. *DING! Dataset Ranking using Formal Descriptions*. Linked Data on the Web Workshop (LDOW) at WWW, 2009.

**M. Hausenblas**, R. Troncy, Y. Raimond, T. Bürger. *Interlinking Multimedia: How to Apply Linked Data Principles to Multimedia Fragments*. Linked Data on the Web Workshop (LDOW) at WWW, 2009.

**M. Hausenblas**. *Exploiting Linked Data For Building Web Applications*. IEEE Internet Computing, 13(4), 80–85, 2009.

**M. Hausenblas**, W. Halb, Y. Raimond, L. Feigenbaum, D. Ayers. *SCOVO: Using Statistics on the Web of Data*. ESWC2009 Semantic Web in Use Track, 2009.

## 2008

**M. Hausenblas**. *Building Scaleable and Smart Multimedia Applications on the Semantic Web*. PhD thesis, Graz University of Technology, 2008.

R. Kaiser, **M. Hausenblas**, M. Umgeher. *Metadata-Driven Interactive Web Video Assembly*. International Journal Multimedia Tools and Applications, Semantic Media Adaptation and Personalisation, 437–467, 2008.

S. Softic, **M. Hausenblas**. *Towards Opinion Mining Through Tracing Discussions on the Web*. Social Data on the Web (SDoW) Workshop at the International Semantic Web Conference (ISWC), 2008.

**M. Hausenblas**, W. Halb. *Interlinking Multimedia Data*. Linking Open Data Triplification Challenge at the International Conference on Semantic Systems (I-Semantics), 2008.

**M. Hausenblas**, W. Halb, Y. Raimond, T. Heath. *What is the Size of the Semantic Web?* International Conference on Semantic Systems (I-Semantics), 2008.

**M. Hausenblas**. *Non-linear Interactive Media Productions*. Special Issue of ACM Multimedia Systems Journal on Canonical Processes of Media Production, 405–413, 2008.

**M. Hausenblas**, W. Halb. *Interlinking of Resources with Semantics*. Poster at the European Semantic Web Conference (ESWC), 2008.

**M. Hausenblas**, W. Halb, Y. Raimond. *Scripting User Contributed Interlinking*. Workshop on Scripting for the Semantic Web (SFSW), collocated with the European Semantic Web Conference (ESWC), 2008.

W. Bailer, **M. Hausenblas**, W. Haas. *Enabling Audiovisual Metadata Interoperability with the European Digital Library*. Workshop on Semantic Interoperability in the European Digital Library (SIEDL), collocated with the European Semantic Web Conference (ESWC), 2008.

W. Halb, Y. Raimond, **M. Hausenblas**. *Building Linked Data For Both Humans and Machines*. Linked Data on the Web Workshop (LDOW) at WWW, 2008.

W. Weiss, **M. Hausenblas**. *Visual Exploration, Query, and Debugging of RDF Graphs*. Semantic Web User Interaction Workshop (SWUI) at CHI, 2008.

## 2007

**M. Hausenblas**, W. Bailer, T. Bürger, R. Troncy. *Deploying Multimedia Metadata on the Semantic Web*. Poster at the International Conference on Semantics And digital Media Technologies (SAMT), 2007.

**M. Hausenblas**, R. Mörzinger, P. Hofmair, W. Haas. *Towards Intelligent Assembly of Media Assets for Automated Character Animation*. Workshop on Multimedia Annotation and Retrieval enabled by Shared Ontologies (MARESO), collocated with the International Conference on Semantics And digital Media Technologies (SAMT), 2007.

R. Kaiser, M. Umgeher, **M. Hausenblas**. *Metadata-based Adaptive Assembling of Video Clips on the Web*. International Workshop on Semantic Media Adaptation and Personalization (SMAP), 2007.

**M. Hausenblas**, W. Bailer, H. Mayer. *Deploying Multimedia Metadata in Cultural Heritage on the Semantic Web*. International Workshop on Cultural Heritage on the Semantic Web (CH-SW), collocated with the International Semantic Web Conference (ISWC), 2007.

**M. Hausenblas**, H. Rehatschek. *mle: Enhancing the Exploration of Mailing List Archives Through Making Semantics Explicit*. Semantic Web Challenge 2007, collocated with the International Semantic Web Conference (ISWC), 2007.

T. Bürger, **M. Hausenblas**. *Why Real-World Multimedia Assets Fail to Enter the Semantic Web*. Semantic Authoring, Annotation and Knowledge Markup Workshop (SAAKM), collocated with the International Conference on Knowledge Capture (K-Cap), 2007.

**M. Hausenblas.** *Applying Media Semantics Mapping in a Non-linear, Interactive Movie Production Environment.* International Conference on New Media Technology (I-Media), 2007.

M. Höffernig, **M. Hausenblas**, W. Bailer. *Semantics of Temporal Media Content Descriptions.* 7th Multimedia Metadata Applications Workshop (M3A), 2007.

M. Ursu, J. Cook, V. Zsombori, I. Kegel, D. Williams, **M. Hausenblas**, M. Tuomola. *ShapeShifting Screen Media: A Declarative Computational Model for Interactive Reconfigurable Moving Image Narratives.* Poster at the Artificial Intelligence and Interactive Digital Entertainment Conference, 2007.

**M. Hausenblas**, W. Slany, D. Ayers. *A Performance and Scalability Metric for Virtual RDF Graphs.* Workshop on Scripting for the Semantic Web (SFSW), collocated with the European Semantic Web Conference (ESWC), 2007.

W. Haas, W. Bailer, **M. Hausenblas.** *Media Semantics.* ÖGAI Journal, 26(1), 2007.

**M. Hausenblas**, F. Nack. *Interactivity = Reflective Expressiveness.* IEEE MultiMedia, 14(2), 1–7, 2007.

## 2006

R. Troncy, W. Bailer, **M. Hausenblas**, P. Hofmair, R. Schlatte. *Enabling Multimedia Metadata Interoperability by Defining Formal Semantics of MPEG-7 Profiles.* International Conference on Semantics And digital Media Technology (SAMT), 2006.

H. Rehatschek, **M. Hausenblas**, G. Thallinger, W. Haas. *Cross media aspects in the areas of media monitoring and content production.* International Conference on Language Resources and Evaluation (LREC), 2006.

## 2003 – 2005

M. Lux, W. Klieber, M. Granitzer, **M. Hausenblas**, H. Mayer. *Digital Rights Management for Distributed Multimedia E-Learning Content.* Interactive Computer Aided Learning Conference, 2005.

W. Bailer, P. Schallauer, **M. Hausenblas**, G. Thallinger. *MPEG-7 Based Description Infrastructure for an Audiovisual Content Analysis and Retrieval System.* Conference on Storage and Retrieval Methods and Applications for Multimedia, 2005.

**M. Hausenblas.** *Semantic Representation and Query of Legal Norms in the Area of Academic Law.* Diploma thesis, 2004.

H. Zeiner, G. Kienast, **M. Hausenblas**, C. Derler, W. Haas. *Video Assisted Geographical Information Systems.* Cross-Media Service Delivery, 205–215, 2003.

## Tutorials & Workshops

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European Semantic Web Conference: Workshop on “Trust and Privacy on the Social and Semantic Web” (SPOT2009), June 2009.

European Semantic Web Conference: Tutorial on “The Web of Data for E-Commerce in One Day: A Hands-on Introduction to the GoodRelations Ontology, RDFa, and Yahoo! SearchMonkey”, May 2009.

World Wide Web Conference: Tutorial on “Hello Open World – The Web of Data for the Pragmatic Developer”, April 2009.

International Semantic Web Conference: Tutorial on “RDFa – Bridging the Web of Documents and the Web of Data, October 2008.

International Semantic Web Conference: Tutorial on “How to Publish Linked Data on the Web”, October 2008.

European Interactive TV Conference: Tutorial on “Shape shifted TV: Authoring and delivering new forms of interactive TV”, May 2007.

European Semantic Web Conference: Tutorial on “What you Mean is What you Watch: Multimedia and the Semantic Web”, June 2006.

## Scientific Committees & Reviewing Activities

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### 2012

*Editorial Review Board* member of the International Journal On Semantic Web and Information Systems

*Organising Committee* member of the Linked Data on the Web Workshop at World Wide Web Conference

*Programme Committee* member of the International Workshop on RESTful Design at World Wide Web Conference

*Programme Committee* member of the International Semantic Web Conference Research Track, In Use Track, Poster and Demo Track

### 2011

*Organising Committee* member of the Linked Data on the Web Workshop at World Wide Web Conference

*Programme Committee* member of the International Workshop on RESTful Design at World Wide Web Conference

*Programme Committee* member of the International Semantic Web Conference Research Track, In Use Track, Poster and Demo Track

### 2010

*Programme Committee* member of the International Provenance and Annotation Workshop

*Organising Committee* member of the Workshop on Semantic Personalized Information Management at International Conference on Language Resources and Evaluation

*Organising Committee* member of the Linked Data on the Web Workshop at World Wide Web Conference

*Programme Committee* member of the International Workshop on RESTful Design at World Wide Web Conference



*Programme Committee* member of the AAAI Spring Symposium “Linked Data Meets Artificial Intelligence”

*Programme Committee* member of the Visual Interfaces to the Social and Semantic Web Workshop

## **2009**

*Programme Committee* member of the Social Networks Interoperability Workshop

*Programme Committee* member of the Semantic Web User Interaction Workshop at International Semantic Web Conference

*Reviewer* for the Data & Knowledge Engineering Journal

*Programme Committee* member of the International Conference on Semantic and Digital Media Technologies

*Programme Committee* member of the International Semantic Web Conference In Use Track

*Programme Committee* member of the International Semantic Web Conference Research Track

*Programme Committee* member of the International Semantic Web Conference Posters and Demonstrations session

*Reviewer* for ACM Computing Surveys

*Programme Committee* member of the Second Workshop on Story-Telling and Educational Games

*Chair* of the Linking Open Data Triplification Challenge at the I-Semantics Conferences

*Reviewer* for the Special Issue of the Journal of Web Semantics on Exploring New Interaction Designs Made Possible by the Semantic Web

*Reviewer* for the International Journal on Semantic Web and Information Systems Special Issue on Linked Data

*Reviewer* for the Special Issue of the Journal of Web Semantics on The Web of Data

*Programme Committee* member of the Workshop on Scripting for the Semantic Web collocated with the European Semantic Web Conference

*Reviewer* for the European Semantic Web Conference

*Organising Committee* member of the Trust and Privacy on the Social and Semantic Web workshop at European Semantic Web Conference

*Programme Committee* member of the Linked Data on the Web Workshop at World Wide Web Conference

*Reviewer* for the World Wide Web Conference

*Organising Committee* member of the European Semantic Web Conference, and Semantic Web Technologies Co-ordinator jointly with Harith Alani

*Programme Committee* member of the European Interactive TV Conference

*Programme Committee* member of the Workshop on Multimedia Metadata

*Programme Committee* member of the Visual Interfaces to the Social and the Semantic Web

## **2008**

*Programme Committee* member of the International Workshop on Interacting with Multimedia Content in the Social Semantic Web

*Organising Committee* member of the Web of Data Practitioners Days

*Programme Committee* member of the Social Data on the Web Workshop

*Programme Committee* member of the Doctoral consortium at International Semantic Web Conference

*Programme Committee* member of the International Workshop on Story-Telling and Educational Games

*Programme Committee* member of the Semantic Authoring, Annotation and Knowledge Markup Workshop

*Programme Committee* member of the International Conference on Semantic and Digital Media Technologies

*Programme Committee* member of the Workshop on Scripting for the Semantic Web (SFSW08) collocated with the European Semantic Web Conference

*Programme Committee* member of the Linked Data on the Web Workshop at the World Wide Web Conference

*Programme Committee* member of the European Interactive TV Conference

*Programme Committee* member of the Semantic Web User Interaction at Computer-Human Interaction Conference

*Programme Committee* member of the Workshop on Multimedia Metadata Management & Retrieval

## **2006 and 2007**

*Programme Committee* member of the Workshop on Multimedia Annotation and Retrieval enabled by Shared Ontologies

*Programme Committee* member of the Knowledge Acquisition from Multimedia Content Workshop

*Programme Committee* member of the Multimedia Metadata Applications

*Reviewer* for the International Journal on Semantic Web and Information Systems

*Reviewer* for the IEEE MultiMedia Journal

*Reviewer* for the Signal Processing: Image Communication Special Issue

*Reviewer* for the Multimedia Tools and Applications - Journal of Web Semantics Joint Special Issue on "Semantic Multimedia"

## Supervision of Students

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### Current

Thomas Steiner, PhD student, Universitat Politècnica de Catalunya, Barcelona, since 2011.

Myriam Leggieri, PhD student, National University of Ireland, Galway, since 2011.

Nur Aini Rakhmawati, PhD student, National University of Ireland, Galway, since 2011.

Lin Clark, M.Sc. student, National University of Ireland, Galway, since 2010.

Aftab Iqbal, PhD student, National University of Ireland, Galway, since 2009.

### Former

Sarven Capadisli, M.Sc. student, National University of Ireland, Galway, thesis completed in 2012.

Fadi Maali, M.Sc. student, National University of Ireland, Galway, thesis completed in 2011.

Selver Softic, M.Sc. student, Faculty of Computer Science, Graz University of Technology, thesis completed in 2009.

Wolfgang Weiß, M.Sc. student, FH Joanneum University of Applied Sciences, thesis completed in 2007.

Hannes Bauer, M.Sc. student, Upper Austria University of Applied Sciences, thesis completed in 2006.