

Mischa Moussavian Tuffield  
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03/01/1981

## Research Interests

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My work is primarily focused on the dissemination and adoption of the Semantic Web. I have interests in privacy, decentralised social networks, and personal information. And as a result I am now on the W3C's Social Web Incubator Group, where I am looking at privacy and the sharing of contextual information on the Social Web.

My current interest lies in the identification and capture of "freely available" - web/desktop based - sources of information that can be utilised to build up personal contextual logs. Further to the capture of contextual information I am interested at looking at the applicability of contextual information to aid the tasks of multimedia knowledge management, and that of autobiographical summarisation. My work focuses on the capturing and integration of information to generate metadata to enrich one's multimedia collection.

## Education

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Oct 04 – Sept 09 **PhD in Artificial Intelligence**  
**University of Southampton, IAM Group**

**Supervisors:** Professor Nigel R. Shadbolt & Dr David E. Millard

**Title:** Telling Your Story: A Tale of Autobiographical Metadata and the Semantic Web.

**Aim:** The overarching aim is to provide insight into collecting and storing personal metadata in a surreptitious non-invasive manner. My interest is born out of my involvement with the EPSRC *Memories for Life* Grand Challenge, which I am a member of. The goal of my PhD is to identify techniques of narrative generation that could be applied to an automatically captured personal context store along with some multimedia, in order to evaluate the richness of automatically capture metadata.

Oct 03 – Oct 04 **MSc Artificial Intelligence in**  
Reasoning and Representation & Knowledge Engineering  
and Management  
**University of Edinburgh, AIAI**  
**Supervised:** Dr Dave Roberston

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<i>Exams</i>	<i>Marks</i>	<i>Grade</i>
<i>AI Programming in Java</i>	79	A
<i>Fundamentals of Artificial Intelligence</i>	63	B
<i>Genetic Algorithms and Genetic Programming</i>	80	A
<i>Knowledge Engineering</i>	73	A
<i>Knowledge Management</i>	76	A
<i>Knowledge Representation</i>	78	A
<i>Learning from Data 1</i>	60	B
<i>Learning from Data 2</i>	70	A

**MSc Thesis:** A Hybrid Multi-Agent Co-ordination System for Computer Game Worlds. **B**

**Project Aim:** To provide insight into the dilemma facing developers when deciding to employ either a reactive or deliberative multi-agent architecture for a Computer Game World. The knowledge gained through the comparative analysis of the aforementioned reactive architecture and the previously designed AnyTime planner presents novel results for such a reactive hybrid agent architecture.

Sept 98 - July 02 **BSc Software Engineering** *with Honours*  
**Oxford Brookes University**  
 Result: 2:1

**BSc Thesis:** Agent Technology and its Practical Application of Enhancing a Library Search Engine

**Project Aim:** Experiments were performed to evaluate the performance of a surreptitious "personal assistant" agent, or recommender system, designed to enhance searching on the university library catalogue. The system utilised personal information of its users' and analysed their book borrowing habits, in order present the user with related title selected by other users.

Sept 96- Jun 98 **International Baccalaureate (IB)** at Tehran  
 International School

**High-Level (HL):** Computer Science, Maths, Economics  
**Sub-Level (SL):** English, French, Physics

## Programme Committees

Linked Data on the Web Workshop at WWW 2009 (LDOW09)

International Semantic Web Conference Poster/Demo Session (ISWC 2009)

## Work Experience

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**Jul 08 – Present:** Information Systems Developer  
**Garlik Ltd ([www.garlik.com](http://www.garlik.com))**

At Garlik I have helped build the current DataPatrol system (Java), online identity theft protection, whereby I built Garlik's web searching capabilities. I also spent time building <http://foaf.qdos.com/> that uses bleeding edge technology to hint at what a distributed social network may look like.

**Jan 08 – Feb 08:** Data Harvesting/ RDF Integration Work/ Perl  
**(Lockheed Martin)**  
ECS Partners Limited – Consultancy

I helped developed and integrate information from the Ordnance Survey, and Camden City council into a SPARQL enabled knowledge-base, which was in turn used to demonstrate path-finding and reasoning developed by Lockheed.

**Oct 07 – Dec 07:** Data Harvesting/ RDF Integration Work/ Perl  
**Garlik Ltd ([www.garlik.com](http://www.garlik.com))**  
ECS Partners Limited – Consultancy

I did some work for Garlik as a consultant/programmer helping them develop their semantic tech driven capabilities. I helped develop the data harvesting technologies used in the site <http://qdos.com>. This included the harvesting of data from numerous websites/servers.

**Dec 05 – Mar 06:** JavaScript / PHP /RDF  
**CoastWeb Marine Portal ([www.coastweb.info](http://www.coastweb.info))**  
ECS Partners Limited - Consultancy

I helped develop the Coastweb Marine Portal. The system is driven by an editable ontology stored in an RDF store. I developed a Java-script based taxonomy viewer to run off a given triple store. I also helped with server/knowledge base installation and setup.

**Oct 05 – Sep 07:** Web and IT Developer  
**French Learner Language Oral Corpora,**  
University of Southampton – Modern Languages

I worked work one day week on this project, writing scripts to parse the project's data into bespoke formats, along with data-management/server admin for the project. I worked with Linguists from Newcastle & Southampton University to retrain the French Part of Speech Tagger (POST) algorithm used to disambiguate the French Language.

July 02 – Oct 03: **Charity Aid Foundation** (CAF).

This job was taken-up to help fund my Masters degree at Edinburgh.

## TECHNICAL SKILLS

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**Programming:** Perl, PHP, Java, C, Matlab, RDF, Java-script, SQL, SPARQL, Web-tech (XML, SOA, Services etc.).

**Others:** I am well versed in using 4store, a large quad store, and know how to make use of Hadoop and the Nutch indexing system. I administer a number of linux servers at work, and run a linux based home network/entertainment suite. I am familiar with OS X, and Windows, I use Eclipse IDE for Java, and use vi for everything else.

## PROJECTS

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*OpenKnowledge* I am collaborating with the OpenKnowledge consortium to implement the Photocopain and the Semantic Logger systems on their peer-2-peer infrastructure.

*Photocopain* I lead the development of a Photo Annotation system that used both context and content-based methods to annotate personal photo collections. The project involved integration of work at Southampton and the Universities of Aberdeen and Sheffield. Photocopain was used as one of the AKT ([www.aktors.org](http://www.aktors.org)) final technology demonstrators.

*Semantic Logger* A system for housing, storing, querying and visualising personal metadata. The aim of the system is to present a user with an easy way to setup their own RDF store, a collection of client side services for the uploading personal metadata, and a dynamic mSpace generator to allow users to visualise their personal RDF stores. This is seen as the first step towards the goals set out by the *Memories for Life* project.

*OntoMedia* Work undertaken with two other PhD students in Southampton, on an ontology defined to mark-up and add semantics to descriptions of various types of media, including, books, film, and computer games.

## TEACHING EXPERIENCE

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Undergraduate Project Team Manager for the Obstacles Visualization Project of Southampton International Airport (sponsored by IBM).

Advanced Programming concepts in C++ and Java (01/05 - 07/05) to first and second year undergraduate student's at the University of Southampton.

## OTHERS

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**Languages:** Persian (Fluent) & French (Basic)

**Hobbies:** guitar, bass, drums, juggling, diabolo, rock-climbing, photography, graphic-novels, philosophy and art.

## PUBLICATIONS

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O'Hara, K., Tuffield, M. and Shadbolt, N. (2009) Lifelogging: Privacy and Empowerment with Memories for Life. *Identity in the Information Society*, 1 (2).

Nigel Shadbolt, Kieron O'Hara, Tom Heath, and Mischa Tuffield (2007) *Advanced Knowledge Technologies: Selected Papers 2006-2007*. ISBN: 0854328734

Tuffield, M., Harris, S., Dupplaw, D. P., Chakravarthy, A., Brewster, C., Gibbins, N., O'Hara, K., Ciravegna, F., Sleeman, D., Wilks, Y. and Shadbolt, N. R. (2006) *Image annotation with Photocopain*. In Proceedings of First International Workshop on Semantic Web Annotations for Multimedia (SWAMM 2006) at WWW2006, Edinburgh, United Kingdom.

Tuffield, M. M., Millard, D. E. and Shadbolt, N. R. (2006) *Ontological Approaches to Modelling Narrative*. In Proceedings of 2nd AKT DTA Symposium, AKT, Aberdeen University.

Tuffield, M. M., Dupplaw, D. P., O'Hara, K., Shadbolt, N. R., Chakravarthy, A., Brewster, C., Ciravegna, F. and Wilks, Y. (2006) *Photocopain - Annotating Memories For Life* (Poster Paper).

Tuffield, M. M., Loizou, A., Dupplaw, D., Dasmahapatra, S., Lewis, P. H., Millard, D. E. and Shadbolt, N. R. (2006) *The Semantic Logger: Supporting Service Building from Personal Context*. In Proceedings of Capture, Archival and Retrieval of Personal Experiences (CARPE) Workshop at ACM Multimedia, Santa Barbara.

Tuffield, M. M., Shadbolt, N. R. and Millard, D. E. (2005) *Narrative as a Form of Knowledge Transfer: Narrative Theory and Semantics*. In Proceedings of 1st AKT Doctoral Symposium, Milton Keynes, UK.

Lawrence, K. F., Tuffield, M. M., Jewell, M. O., Prugel-Bennett, A., Millard, D. E., Nixon, M. S., schraefel, m. c. and Shadbolt, N. R. (2005) *OntoMedia - Creating an Ontology for Marking Up the Contents of Heterogeneous Media*. In Proceedings of Ontology Patterns for the Semantic Web ISWC-05 Workshop (in press), Galway, Ireland.

Jewell, M. O., Lawrence, K. F., Tuffield, M. M., Prugel-Bennett, A., Millard, D. E., Nixon, M. S., schraefel, m. c. and Shadbolt, N. R. (2005) *OntoMedia: An Ontology for the Representation of Heterogeneous Media*. In Proceedings of Multimedia Information Retrieval Workshop (MMIR 2005) SIGIR, Brazil.

Tuffield, M. M., Millard, D. E. and Shadbolt, N. R. (2005) *Towards the Narrative Annotation of Personal Information and Gaming Environments*. In Proceedings of Hypertext 05, Workshop on Narrative, Musical, Cinematic and Gaming Hyperstructure, Salzburg, Austria.  
Technical Report

Tuffield, M. M., Millard, D. E. and Shadbolt, N. R. (2006) *An Investigation into Automatically Captured Autobiographical Metadata, and the Support for Autobiographical Narrative Generation*. Mini-Thesis: PhD upgrade report. Technical Report, Electronics and Computer Science, University of Southampton.

Tuffield, M. M., Millard, D. E. and Shadbolt, N. R. (2005) *Narrative as a Form of Knowledge Transfer, Narrative Theory and Semantic: Present Challenges - Future Possibilities* (9 month Report). Technical Report, Electronics and Computer Science, Intelligence, Agents, Multimedia.

Dupplaw, D., Croitoru, M., Loizou, A., Dasmahapatra, S., Lewis, P., Tuffield, M. and Xiao, L. (2007) *Multimedia Markup Tools for OpenKnowledge*. In: 1st Workshop on Multimedia Annotation and Retrieval enabled by Shared Ontologies, 5th December 2007, Genoa, Italy.

Potter, S., Kalfoglou, Y., Alani, H., Bachler, M., Buckingham Shum, S., Carvalho, R., Chakravarthy, A., Chalmers, S., Chapman, S., Hu, B., Preece, A., Shadbolt, N., Tate, A. and Tuffield, M. (2007) *The Application of Advanced Knowledge Technologies for Emergency Response*. In Proceedings of 4th International Information Systems for Crisis Response and Management (ISCRAM 07), Delft, The Netherlands.

## REFEREES

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