Curriculum Vitae

General information

Name:	Tamas Madl
Address:	Gärtnergasse 22
	2320 Kledering, Austria
Date of Birth:	27.03.1989
Citizenship:	Hungary
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Current Position

Research Assistant – Austrian Research Institute for Articial Intelligence (OFAI)
Freyung 6/6, A-1010 Wien, Austria

External Researcher – Cognitive Computing Research Group (CCRG)
University of Memphis, Memphis TN-38152, USA

Main Areas of Research

Cognitive modelling and cognitive architectures, neural computing, agent-based AI

Academic Career

July 2011 – December 2011	Development of a context-aware cognitive software agent simulating a mobile assistive robot for elderly or sick patients, based on the LIDA (Learning Intelligent Distribution Agent) cognitive architecture (at the Austrian Research Institute for Artificial Intelligence, OFAI)
January 2011 – July 2011 (half-time)	Development of a computational model of the attentional blink based on the LIDA model (University of Vienna). In cooperation with Dr. Stan Franklin and the CCRG group at the University of Memphis. Paper (see below): *Madl & Franklin (2012)*
September 2010 – December 2010 (half-time)	Computational modeling of human perceptual decision making using a LIDA-based agent (Comenius University Bratislava). In cooperation with Dr. Stan Franklin and the CCRG group at the University of Memphis.
July 2010 – September 2010 (full-time)	Computational cognitive architectures research at the CCRG (development of a LIDA-based agent, adjustment of parameters to neuroscientifically plausible values). Supervisor: Dr. Stan Franklin. Paper (see below): *Madl, Baars & Franklin (2011).*
April 2010 – June 2010 (half-time)	Computational modeling of the evolution of cooperation in a prehistoric society (University of Vienna). Supervisor: Dr. Karl Sigmund

Education

October 2009 - June 2011	MSc MEi:CogSci (Master's in Cognitive Science) at the University of Vienna (Most relevant modules: Computational Models of The Mind, Machine Learning & Neural Computation, Neuroscience, Philosophy, Psychology, Models of Personality & Emotions, Statistics)
September 2008 – May 2009	BSc (Hons) Computing at the University of Central Lancashire in Preston, UK – first class with honours (Most relevant modules: Advanced Software Engineering, Artificial Neural Networks, Object Oriented Methods, Data Warehousing) (Direct entrance into the 3rd year - the subjects at the Higher Technical Institute Spengergasse corresponding to the first two years at the University of Central Lancashire were recognised)
2003-2008:	Higher Technical Institute Spengergasse, Electronic Data Processing Department, Vienna, Austria (Specialisation: Computer networking, Electronics & Robotics)

Employment History

July 2011 –	Research assistant at the Austrian Research Institute for Artificial Intelligence (OFAI) Vienna
October 2011 – August 2011	Part-time job as a web programmer for intevo GmbH (PHP, JS/extJS, AJAX, SQL, HTML 5, CSS)
October 2009 - June 2010	Part-time job as a web programmer for biz:Consult GmbH (PHP, JS, AJAX, SQL, HTML, CSS)
September 2008 - April 2009	Part-time job as a web programmer for Skypark Secure (PHP, AJAX)
August 2008:	Internship at the OnTec-Company in Vienna (Java, JSP and JS)
Summer 2007:	Designing the SoftJobs website (www.softjobs.eu)
August 2006:	Internship at the company Qualysoft in Hungary Web project in C#, ASP.NET and Flash ActionScripts
August 2005:	Internship at Schrack Seconet AG in Vienna, Austria
July 2005:	Designing the HungaroImmo website (www.hungaroimmo.com)

Academic Prizes & Awards

Scholarship of Achievement 2010 and 2011 (University of Vienna)

2nd, 3rd and 5th place at the Austrian Physics Olympiad (2008, 2007, 2006)

Publications

Madl, T., Baars, B.J. & Franklin, S., 2011. The Timing of the Cognitive Cycle. *PLoS ONE, 6(4), p.e14803.*

Madl, T. & Franklin, S., 2012. A LIDA-based Model of the Attentional Blink. *International Conference on Cognitive Modeling (ICCM) 2012*

Franklin, S., D'Mello, S., Snaider, J., Madl, T., submitted. LIDA: A Systems-level Architecture for Cognition, Emotion, and Learning. *IEEE Transactions on Autonomous Mental Development.*

Conferences Attended

June 2011	Middle European Interdisciplinary Cognitive Science Conference (Ljubljana, Slovenia): Conference Talk (*Tuning and Verifying a Psychologically Plausible Cognitive Architecture*)
June 2010	Middle European Interdisciplinary Cognitive Science Conference (Dubrovnik, Croatia): Poster presentation (*An Agent-Based Social Simulation of the Evolution of Cooperation*)

Professional Qualifications

Significant programming experience in:

- C# .NET
- C and C++
- Java
- SQL, PL/SQL
- MATLAB
- Web programming: HTML, XHTML, JavaScript & AJAX & extJS, CSS, Flash ActionScripts, PHP, JSP

Certificates:

- GRE 660 (Verbal Reasoning) / 760 (Quantitative Reasoning)
- IELTS (Academic, 8.0 overall band score)
- Cisco ITEssentials II
- Cisco CCNA 1, 2, and 3

Languages

Native speaker in German and Hungarian, fluent in written and spoken English