egon w. stemle

Researcher

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Egon Stemle is a Cognitive Scientist: he studies skills like perception, thinking, learning, motor function, and language by combining the humanistic and analytical methods of the arts and the formal sciences. His research focus within this relatively new 'inter-discipline' lies in the area where Computational Linguistics and Artificial Intelligence converge. He is working on computer aided fabrication of ontologies from large document repositories, the technological feasibility thereof and the utilization of cross-linked structured data in applications, and on tools for editing, processing, and annotating linguistic data. His driving force is the question why humans handle incomplete and – more often than not – inconsistent structured concepts just fine, whereas computational processes are often of little avail or fail completely.

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02.2006 – – 03.2009	MSc in Cognitive Science , <i>with distinction</i> , University of Osnabrück, Germany. Majors: <i>Linguistics and Computational Linguistics</i> and <i>Artificial Intelligence</i> , One Year Study Project: Analysis and Structure of Aviation Documents (ASADO), [http://www.cogsci.uni-osnabrueck.de/~ASADO].
03.2002 - - 09.2002	Semester abroad , <i>ILLC (Institute for Logic, Language and Computation)</i> , University of Amsterdam, The Netherlands.
10.2000 - - 01.2006	BSc in Cognitive Science, University of Osnabrück, Germany.
12.1998 - - 07.2000	Apprenticeship as Travel Agent, WORLDWIDE Touristik, Nürnberg, Germany.
06.1997	Abitur, Sigmund-Schuckert-Gymnasium, Nürnberg, Germany.

Master's Thesis

title	Hybrid Sweeping: Streamlined Perceptual Structured-Text Refinement
supervisors	Prof. Dr. Stefan Evert and Prof. Dr. Peter König
description	Development of a perceptually driven content extraction architecture for Web pages – exem-

Research and Professional Experience

com], provider of neuroscientific technologies for marketers.

plified by a Web page cleaning system.

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since 02.2012	Researcher , Institute for Specialised Communication and Multilingualism at the European Academy of Bozen/Bolzano (EURAC) [\rightarrow EURAC].
04.2009 - - 01.2012	Research Fellow , LiveMemories sponsored grant, financed by the Provincia Autonoma of Trento, for research activities at the Center for Mind/Brain Sciences (CIMeC) of the University of Trento [\rightarrow LiveMemories, \rightarrow CIMeC].
since 2009	Technology Consultant and Shareholder , Whitematter Labs [http://whitematterlabs.

- 04.2008 **Project Member**, *GoodGaze* [http://www.goodgaze.com], research project to predict where people will look on Web pages.
 - 2008 **Freelancer**, *ontoprise GmbH* [http://www.ontoprise.de], Integrating in-house technology with IBM's OmniFind; Feasibility Study: evaluate to which extent very specific information extraction from large web data collections combined with semi-automatic cleaning is technically feasible, what benefits and efforts are to be expected while also considering external alternatives.
- 10.2006 Research Participant, DAAD funded research project (Project-linked exchange of academics and scientists, PPP), collaboration between the Institute of Cognitive Science, U. Osnabrück, Germany, the CNRS UMR 8163 (Savoirs, Textes, Langages), U. of Lille (III), France, and the Departament de Traducció i Filologia, U. Barcelona (Pompeu Fabra), Spain, title: Reference to Abstract Objects in Natural Language (OntoRef) [http://parles.upf.es/glif/pub/abstract/index.html].
- 04.2006 **Research Assistant**, *Institute of Applied Informatics and Formal Description Meth-* 03.2008 ods, *University of Karlsruhe*, *Germany*, Knowledge Management Research Group, [http://www.aifb.uni-karlsruhe.de/Forschungsgruppen/WBS/english].

Maintenance and development of software and scientific counsel; e.g. evaluating CL tools for OmniFind+UIMA and hooking them together.

- 08.2004 Research Participant, cooperation between the Universities of Osnabrück and Hildesheim, and the aircraft manufacturer AIRBUS, title: ASADO project to research methodologies and technologies to analyze and structure the huge amount of documentation produced during aircraft construction.
- 08.2003 Student Assistant, Institute of Cognitive Science, University of Osnabrück, Germany,
 12.2003 Artificial Intelligence Research Group, [http://www.cogsci.uni-osnabrueck.de/~ai/milca.html].
 Maintenance and development of software for the MiLCA (Media intensive learning units for courses in computational linguistics) project.
- 10.2001 **System Administrator**, *Institute of Cognitive Science, University of Osnabrück, Ger-* 03.2009 *many.*

Maintenance of computer hardware and software, server administration (Web Services, Databases, File Sharing, Printing, Mail, Calendaring, (D)VCS, CMS), user support; assisting work groups in making strategic decisions about hardware and software.

Teaching Experience

- 2009 2011 **Lecture on Web Corpora**, *Course in text processing*, offered to students of the School of Humanities and Philosophy, of the International Master in Cognitive Science and of the Master in Human Language Technologies and Interfaces, coordinated by Marco Baroni, University of Trento.
- 10.2003 **Artificial Intelligence Tutor**, *Methods of Artificial Intelligence*, Second year Cognitive Science class, Institute of Cognitive Science, University of Osnabrück.
- (every other semester) Weekly tutoring of the lecture material, assessment of programming assignments, homework corrections, and exam preparation.
- 04.2003 Computational Linguistics Tutor, Introduction to Computational Linguistics, First year Cognitive Science class, Institute of Cognitive Science, University of Osnabrück. (every other semester) Weekly tutoring of the lecture material, preparation and assessment of programming assignments, homework corrections, and exam preparation.
 - 10.2002 Theoretical Neuroscience Tutor, Introduction to Theoretical Neuroscience, Second year Cognitive Science class, Institute of Cognitive Science, University of Osnabrück. Weekly tutoring of the lecture material, homework corrections.
 - 10.2001 Computer Science Tutor, Algorithms, First year Computer Science class, Computer Science Department, University of Osnabrück.
 Weekly oral assessment of 10 2-people groups and homework corrections.

Publications

- 07.2012 Francesca Bonin, Fabio Cavulli, Massimo Poesio, and Egon W. Stemle, Anno-(Accepted) tating Archaeological Texts: An Example of Domain-Specific Annotation in the Humanities, to the 6th Linguistic Annotation Workshop, ACL2012.
 - 11.2011 Asif Ekbal, Francesca Bonin, Sriparna Saha, Egon Stemle, Eduard Barbu, Fabio Cavulli, Christian Girardi, and Massimo Poesio, Rapid Adaptation of NE Resolvers for Humanities Domains using Active Annotation, in Journal for Language Technology and Computational Linguistics (JLCL), 26(2):39–51, 2011.
 - 11.2011 Massimo Poesio, Eduard Barbu, Francesca Bonin, Fabio Cavulli, Asif Ekbal, Egon Stemle, and Christian Girardi, The Humanities Research Portal: Human Language Technology Meets Humanities Publication Archives, in SDH2011 Supporting Digital Humanities: Answering the unaskable, Copenhagen, DK.
 - 07.2011 **Brian Murphy and Egon W. Stemle**, PaddyWaC: A Minimally-Supervised Web-Corpus of Hiberno-English, in Proceedings of the First Workshop on Algorithms and Resources for Modelling of Dialects and Language Varieties (DIALECTS2011), Edinburgh, Scotland, UK, Association for Computational Linguistics.
 - 06.2011 Massimo Poesio, Eduard Barbu, Egon W. Stemle, and Christian Girardi, Structure-Preserving Pipelines for Digital Libraries, in Proceedings of the 5th ACL-HLT Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities (LaTeCH 2011), Portland, OR, USA, Association for Computational Linguistics.
 - 05.2010 Kepa J. Rodríguez, Francesca Delogu, Jannick Versley, Egon W. Stemle, and Massimo Poesio, Anaphoric Annotation of Wikipedia and Blogs in the Live Memories Corpus, in Proceedings of the 7th Conference on International Language Resources and Evaluation (LREC'10), Valletta, Malta, European Language Resources Association (ELRA).
 - 09.2009 Johannes M. Steger and Egon W. Stemle, KrdWrd The Architecture for unified Processing of Web Content, in Proceedings of the 5th Web as Corpus Workshop (WAC5), Pre-SEPLN Workshop, Donostoia-San Sebastián, Basque Country, Spain. [http://www.sigwac.org.uk/raw-attachment/wiki/WAC5/WAC5_proceedings.pdf]
 - 09.2007 Daniel Bauer, Judith Degen, Xiaoye Deng, Priska Herger, Jan Gasthaus, Eugenie Giesbrecht, Lina Jansen, Christin Kalina, Thorben Krüger, Robert Märtin, Martin Schmidt, Simon Scholler, Johannes Steger, Egon Stemle, and Stefan Evert, FIASCO: Filtering the Internet by automatic Subtree Classification, Osnabrück, in Building and Exploring Web Corpora. Proceedings of the 3rd Web as Corpus Workshop, incorporating CLEANEVAL (WAC3-2007), Presses universitaires de Louvain. [http://purl.org/stefan.evert/PUB/BauerEtc2007_FIASCO.pdf]
 - 07.2007 **Sebastian Blohm, Philipp Cimiano, and Egon Stemle**, *Harvesting Relations from the Web Quantifying the Impact of Filtering Functions*, in *Proceedings of the 22nd Conference on Artificial Intelligence (AAAI-07)*, Association for the Advancement of Artificial Intelligence (AAAI).

 [http://www.aifb.uni-karlsruhe.de/WBS/seb/publications/pronto-aaai07.pdf]
 - 11.2005 Martin Bleichner, Eugenie Giesbrecht, Helmar Gust, Eva-Maria Leicht, Petra Ludewig, Sabine Möller, Wiebke Müller, Martin Schmidt, Moritz Stefaner, Egon Stemle, and Katja Wilke, ASADO: The Analysis and Structuring of Aviation Documents Final Report, Technical Report, Institute of Cognitive Science at the University of Osnabrück and Institute of Applied Linguistics at the University of Hildesheim.

 [http://iiegn.de/static/doc/bleichneretal2005.pdf]

Administrative Experience

Member of the Examination Board (Prüfungsausschuss), Cognitive Science 04.2006 -

-03.2007Study Programme, University of Osnabrück.

Member of the Search Committee (Besetzungkommission), Institute of Cogni-12.2005 -

-02.2006tive Science, University of Osnabrück.

BAT IIa research associate in Artificial Intelligence.

Member of the Academic Studies Commission (Studienkommission), Cognitive 04.2005 -

-03.2008Science Study Programme, University of Osnabrück.

02.2005 -Member of the Search Committee (Berufungskommission), Faculty of Human-

-01.2006ities, University of Osnabrück.

W3 professor ship Artificial Intelligence and Cognitive Science.

Member of the Steering Committee (Vorstand), Institute of Cognitive Science, 10.2003 -

-03.2008University of Osnabrück.

Member of the Search Committee (Besetzungskommission), Institute of Cog-07.2003 -

-10.2003nitive Science, University of Osnabrück.

BAT IIa research associate in Artificial Intelligence.

Other Activities

04.2006 A for Alibi Symposium, Uqbar Foundation, Utrecht University Museum [link].

Amsterdam 2.0 Exhibition, Mediamatic, Amsterdam [link]. 12.2005

Technical counsel for Kasper Andreasen & Tine Melzer

Spring School, Interdisciplinary College 2003 (IK2003 [link]), Günne at Lake Möhne. 03.2003

Focus Theme: Applications, Brains and Computers

The Complete Dictionary, Tine Melzer, 26 volumes, A–Z. 2003

Programming and Processing [link]

Member of the German Cognitive Science Society (GK e.V.), [link]. since 11.2002

Languages

German **Native**

English **Excellent**

French **Basic**

Italian **Basic** Main education language at university.

5 years training during high-school.

Computer Skills

programming Python, Java, JavaScript (ECMA-

Scrip), Prolog, ML

R, CQP, Oracle/Sun Grid Enscientific gine, Apache Hadoop, Matlab, OmniFind+UIMA, PDP++, Octave,

Protégé

office Word, Excel, Access, Powerpoint, LibreOffice

scripting Bash, Perl, PHP

LATEX, gnuplot, Inkscape, Scribus, design InDesign, Illustrator, Photoshop,

GIMP