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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 , University of Osnabrück, Germany. Majors: Linguistics and Computational Linguistics and Artificial Intelligence, One Year Study Project: Analysis and Structure of Aviation Documents (ASADO), [http://www.cogsci.uni-osnabrueck.de/~ASADO].			
03.2002 - - 09.2002				
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-

Development of a perceptually driven content extraction architecture for Web pages – exemplified by a Web page cleaning system.

Bachelor's Thesis

title A Flexible Integration of CL Techniques for Analyzing Linguistic Units in Large Document Repositories

supervisors PD Petra Ludewig and PD Helmar Gust

description The basic computational linguistic processing stages from raw text documents towards a linguistically enriched annotation for documents are presented.

Research and Professional Experience

- since 02.2012 **Researcher**, Institute for Specialised Communication and Multilingualism at the European Academy of Bozen/Bolzano (EURAC) [\rightarrow EURAC].
 - 04.2009 **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.com]*, provider of neuroscientific technologies for marketers.
 - 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].
 - 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 Methods, 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 (yearly) 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, 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. 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
 02.2003 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
 02.2002 Science Department, University of Osnabrück.
 Weekly oral assessment of 10 2-people groups and homework corrections.

Publications

- 11.2011 Asif Ekbal, Francesca Bonin, Sriparna Saha, Egon Stemle, Eduard Barbu, Fabio (Accepted) Cavulli, Christian Girardi, and Massimo Poesio, Rapid Adaptation of NE Resolvers for Humanities Domains using Active Annotation, to ACRH-2012.
- 11.2011 Massimo Poesio, Eduard Barbu, Francesca Bonin, Fabio Cavulli, Asif Ekbal, (Accepted) 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

04.2006 – **Member of the Examination Board (Prüfungsausschuss)**, Cognitive Science – 03.2007 Study Programme, University of Osnabrück.

12.2005 – Member of the Search Committee (Besetzungkommission), Institute of Cognitive Science, University of Osnabrück.
 BAT IIa research associate in Artificial Intelligence.

04.2005 – Member of the Academic Studies Commission (Studienkommission), Cognitive – 03.2008 Science Study Programme, University of Osnabrück.

02.2005 – Member of the Search Committee (Berufungskommission), Faculty of Human-- 01.2006 ities, University of Osnabrück.

W3 professor ship Artificial Intelligence and Cognitive Science.

10.2003 – **Member of the Steering Committee (Vorstand)**, Institute of Cognitive Science, University of Osnabrück.

07.2003 – Member of the Search Committee (Besetzungskommission), Institute of Cognitive 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].

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

Technical counsel for Kasper Andreasen & Tine Melzer

03.2003 **Spring School**, Interdisciplinary College 2003 (IK2003 [link]), Günne at Lake Möhne. Focus Theme: Applications, Brains and Computers

2003 **The Complete Dictionary**, Tine Melzer, 26 volumes, A–Z. Programming and Processing [link]

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

Languages

German Native

English **Excellent**Main education language at university.

French **Basic**5 years training during high-school.

Italian Basic

Computer Skills

programming Python, Java, JavaScript (ECMA-scripting Bash, Perl, PHP Scrip), Prolog, ML

scientific R, CQP, Oracle/Sun Grid Engine, Apache Hadoop, Matlab, OmniFind+UIMA, PDP++, Octave, Protégé

design LATEX, gnuplot, Inkscape, Scribus, In-Design, Illustrator