

# Michael Auli

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## Education

**University of Edinburgh**, School of Informatics Edinburgh UK

Sep 2008 –  
Present

**Doctor of Philosophy (PhD)** candidate, Artificial Intelligence

- Research Interests: Supervised Parsing and Machine Translation
- Advisors: Philipp Koehn and Adam Lopez
- Thesis: Integrated CCG Parsing and Supertagging
- Expected completion: **May 2012**

Sep 2004 -  
May 2008

**Bachelor of Science (BSc)** in Artificial Intelligence

- **First class** honours (82 mark average<sup>1</sup>)
- Dissertation: Syntactical Reordering for Statistical Machine Translation using Transformation-based Learning, supervised by Philipp Koehn
- Outside courses in business studies and psychology

Sep 1998 -  
June 2003

HTL Spengergasse

Vienna, Austria

- Technical college for business and computing
- Mark Average: 1.3<sup>2</sup>, *High distinction* (university entrance qualification)

## Invited Talks

- Invited Research Talk, *University of Cambridge*, May 2011. Host: Stephen Clark
- Invited Research Talk, *Carnegie Mellon University*, June 2011. Host: Chris Dyer
- Invited Research Talk, *Johns Hopkins University*, June 2011. Host: Adam Lopez

## Refereed Publications

1. Michael Auli and Adam Lopez. Training a Log-Linear Parser with Loss Functions via Softmax-Margin. In *Proceedings of EMNLP*, July 2011. [**Google Plenary Highlight Paper Award**]
2. Michael Auli and Adam Lopez. A Comparison of Loopy Belief Propagation and Dual Decomposition for Integrated CCG Supertagging and Parsing. In *Proceedings of ACL*, June 2011.
3. Michael Auli and Adam Lopez. Efficient CCG Parsing: A\* versus Adaptive Supertagging. In *Proceedings of ACL*, June 2011.
4. Michael Auli, Adam Lopez, Hieu Hoang, and Philipp Koehn. A Systematic Analysis of Translation Model Search Spaces. In *WMT*, March 2009.

## Awards and Honours

- Google Plenary Highlight Paper Award at EMNLP 2011
- EPSRC doctoral studentship (stipend and fees) 2008-2011
- ESRC open competition doctoral studentship (declined)
- Roland Berger Strategy Consultants: student-club membership (top 5-10% interns)
- Prize for best overall mark in major of final undergraduate year

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<sup>1</sup> 70-100=A, 60-69=B, ...

<sup>2</sup> On a scale from 1.0 to 5.0, where 1.0=A+, 1.3=A, 1.7=A-, ...

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## Experience

- May 2011 - June 2011-* **Johns Hopkins University** Baltimore, USA  
Visiting Scholar  
Individual research on minimum-risk parsing, gave two invited talks
- June 2009 - Aug 2009* **Information Sciences Institute**, Univ. of Southern California Los Angeles, USA  
Visiting Research Assistant  
Research in statistical tree-to-string word alignment
- June 2008- Aug 2008* **Roland Berger Strategy Consultants** Munich Germany  
Internship  
Assisted in restructuring project of DAX30 company. Main tasks: progress reporting and making presentations; student-club member (top 5-10% interns)
- Jun 2007- Aug 2007* **UBS Investment Bank** London, UK  
Internship in IT  
Completion of assigned project in 60% of scheduled time allowed me to move from infrastructure division to fixed income trading IT
- June 2006 - Dec 2007* **NCR Teradata Corporation** Vienna, Austria  
Freelance Data Warehouse Consultant  
Assisted in software-migration project at client-site; responsibility for ~15% of software. Tasks included adapting, testing and support for system changeover.
- Aug 2003 - May 2004* **Ministry of Defence** Vienna, Austria  
Military Service  
Gained insight into work of army human resources department while developing and supporting bespoke software
- May 2003 - June 2003* **IBM** Vienna, Austria  
Work Placement  
Managed group study on alternatives to IBM's e-commerce products
- July 2001* **Printcom** Vienna, Austria  
Work Placement  
Placement at a middle-sized print service-provider, IT department
- Aug 1999* **Austrian National Health Insurance** Vienna, Austria  
Work Placement  
Gained insight into insurance provider via carrying out basic clerical tasks

## Responsibilities

- **Reading group organiser:** Edinburgh machine translation group June - Dec 2010
- Teaching: **Tutor** in first year course about data and analysis, Spring 2010
- Student representative 2006-2008

## Languages

English (fluent), German (native), Spanish (very basic)

## Personal

Citizenship: Austria, European Union

References upon request