

Curriculum vitae

Gabor Recski

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Research

Computational semantics – participated in the development of the 4lang system for semantic representation (Kornai et al. 2015), built the open-source semantic parsing system 4lang (Recski 2017), and applied it to build large-scale semantic dictionaries (Recski et al. 2016a) and the current state-of-the-art system for measuring semantic similarity (Recski et al. 2016b).

Shallow parsing – built the open-source HMM-based sequential tagger HunTag (Recski & Varga 2009), the current state-of-the-art system for Hungarian NP-chunking and Named Entity Recognition. Also built a hybrid system for NP-chunking using both ML and grammar-based methods (Recski 2014).

Miscellaneous – participated in projects and co-authored papers on finite-state language learning (Kornai et al. 2013), activation-based language understanding (Nemeskey et al. 2013) knowledge base population (Nemeskey et al. 2010), and automated webcorpus creation (Zséder et al. 2012)

Education

Ph.D, Theoretical Linguistics (summa cum laude) – [ELTE TLP](#), 2011–2016
Thesis: [Computational Methods in Semantics](#), Supervisor: Andras Kornai

M.A, Theoretical Linguistics – [ELTE TLP](#), 2006-2010
Thesis: [NP-chunking in Hungarian](#), Supervisor: Andras Kornai

M.A, English Language and Literature – [ELTE SEAS](#), 2004-2010
Thesis: *Factored Language Models in Statistical Machine Translation*, Supervisor: Andras Kornai

B.Sc, Mathematics (incomplete) – [BUTE Math](#), 2010-2012
Courses completed: Calculus (1-2), Linear Algebra, Algebra 1, Combinatorics and Graph Theory (1-2), Number Theory, Theory of Algorithms, Probability Theory, Mathematical Foundations of NLP, Semantics

Employment

[Department of Automation and Applied Informatics](#), Budapest University of Technology and Economics

assistant professor 2017 June – present

junior lecturer 2014 September – 2017 June

Teaching graduate and undergraduate level courses in human language technologies and programming. Supervising graduate students in various areas of NLP. Conducting individual research in computational semantics.

[Research Group for Mathematical Linguistics](#), Hungarian Academy of Sciences

junior researcher 2014 September – present

Developing the open-source semantics engine 4lang, prototyping systems to participate in computational semantics shared tasks. Managing a team of 3 engineers to deliver NLP components for industry partners

[Cliqz](#)

engineer 2013 July – 2014 September

Built and maintained large-scale systems for domain-specific information retrieval using Elastic MapReduce and ElasticSearch on Amazon EC2; also built various NLP tools to enhance information retrieval systems

[Human Language Technologies Research Group](#), Hungarian Academy of Sciences

researcher-developer 2009 November–2013 June

Participated in the design and implementation of prototype systems for semantic processing; contributed to projects on probabilistic language learning, web crawling, verb frame detection; developed both probabilistic and hybrid solutions for shallow parsing

[Center for Media Research, Budapest University of Technology and Economics](#)

researcher 2008 December–2009 October

Worked on the open source HMM-based NLP tagger Hunttag and the bilingual corpus Hunglish

Language

English (proficient), German (intermediate), Hungarian (native)

Technical Python – 8 years
Bash, UNIX tools – 8 years
Amazon Web Services, Google Cloud, MapReduce, Apache Spark, ElasticSearch

Awards Ph.D. student award, HAS Computer and Automation Research Institute 2012
Ph.D. scholarship, Eötvös Loránd University, Budapest 2011-2014
Best Junior Paper award, VII. Hungarian Conference on Computational Linguistics 2010

Courses taught [Introduction to Python and Human Language Technologies](#), BUTE, 2017-2018
Introduction to programming, BUTE, 2016-2017
Programming, Eötvös Loránd University, 2011

Miscellaneous Hacking for Defense Sponsors Course, 2017
co-organizer, Hungarian Natural Language Processing Meetup (2015-2016)
Interdisciplinary Summer School in Computational Linguistics, University of Zadar, 2010
EGG Summer School in Generative Grammar, Brno, Czech Republic, 2007
Major in German language and literature, ELTE, 2004-2007 (no degree)
Volunteer at KÖR (community of children and adolescents with autism), since 2016
Classical singing (20 years choral, 6 years solo)