

Curriculum vitae

Gabor Recski

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NLP researcher and developer with 12 years experience building open-source NLP applications, including systems for information extraction, information retrieval, syntactic and semantic parsing. Main interests include natural language understanding, question answering, and explainability in semantics. Supervisor of 6 graduate students, co-author of 30+ peer-reviewed articles with 100+ citations.

Education **Ph.D, Theoretical Linguistics (summa cum laude)** – Eötvös Loránd University, 2011–2016
Topic: **Computational Methods in Semantics**, Supervisor: Andras Kornai

M.A, Theoretical Linguistics – Eötvös Loránd University, 2006-2010
Thesis: **NP-chunking in Hungarian**, Supervisor: Andras Kornai

M.A, English Language and Literature – Eötvös Loránd University, 2004-2010
Specialization in English linguistics

B.Sc, Mathematics (incomplete) – Budapest University of Technology, 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 Apollo.AI / Updateme Inc.
Head of AI 2019 –
research engineer 2018 – 2019

Department of Automation and Applied Informatics, Budapest University of Technology and Economics
assistant professor 2017 – 2018
junior lecturer 2016 – 2017

Teaching graduate and undergraduate level courses in **human language technologies** and programming. Supervising graduate students in various areas of NLP. Setting and implementing a research agenda for explainable AI in computational semantics.

Research Group for Mathematical Linguistics, Hungarian Academy of Sciences
junior researcher 2014 – 2016

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 – 2014

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 – 2013

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 – 2009

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

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

Technical Python – 12 years
Bash, UNIX tools – 12 years
Numpy, scipy, sklearn, pyTorch, tensorflow
Amazon Web Services, Google Cloud, Microsoft Azure, MapReduce, Apache Spark, ElasticSearch

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

Students supervised Kinga Gémes (PhD, 2020–, MSc 2018-2020)
Ádám Kovács (PhD, 2019–, MSc 2017-2019)
Evelin Ács (PhD, 2018–, MSc 2016–2018)
Richárd Csáky (MSc, 2018–)
Eszter Iklódi (MSc, 2016–2018)
Péter Rapcsák (MSc, 2017–2018)

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

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, 8 years solo)

Publications Co-author of 30+ peer-reviewed articles with 100+ citations