

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 and explainability in semantics. Supervised 20+ graduate and undergraduate students, co-author of 40 peer-reviewed publications with 200+ 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 TU Wien Faculty of Informatics

postdoctoral researcher 2020 –

Designing and implementing a semantics-based legal information extraction system for the BRISE Vienna project. Building an open-source library of custom NLP tools. Teaching a graduate course in NLP and information extraction. Supervising students at the graduate and undergraduate level. Organizing a research seminar.

Apollo.AI / UpdateMe Inc.

Head of AI 2019 – 2020

research engineer 2018 – 2019

Developing systems for text summarization and legal information extraction, consulting on custom NLP solutions for client companies.

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

Building and maintaining large-scale systems for domain-specific information retrieval using Elastic MapReduce and ElasticSearch on Amazon EC2. Developing various NLP tools to enhance information retrieval systems

Human Language Technologies Research Group, Hungarian Academy of Sciences

researcher-developer 2009 – 2013

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

MOKK Center for Media Research, Budapest University of Technology and Economics

researcher 2008 – 2009

Working 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 Natural Language Processing and Information Extraction, TU Wien, 2020
Python and Human Language Technologies, BUTE, 2017-2018
Introduction to programming, BUTE, 2016-2017
Programming, Eötvös Loránd University, 2011

Graduate students Kinga Gémes (PhD, 2020–, MSc 2018-2020)
Ádám Kovács (PhD, 2019–, MSc 2017-2019)
Richárd Csáky (MSc, 2018–2020)
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 the KÖR foundation (community of children and adolescents with autism), since 2016
Classical singing (20+ years choral, 10 years solo)

Publications Co-author of 40+ peer-reviewed articles with 200+ citations