

# Gábor Melis

## Curriculum Vitæ

### PROFESSIONAL EXPERIENCE

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**Staff Research Scientist at Google DeepMind** 2015 –  
*Artificial Intelligence Research, London*

My research focussed on language modelling, representation learning, generative modelling, optimization with a bit computer science. Of special interest to me are probabilistic latent variable models. I'm a Bayesian, with an unfortunate empirical twist.

**Consultant at Franz** 2010 – 2015  
*Lisp Compiler Implementation, Oakland/Budapest*

Worked on the Allegro CL Lisp environment mainly on native threading and on the query engine of the AllegroGraph triplestore.

**Research Engineer at Ravenpack** 2006 – 2009  
*Applied Artificial Intelligence, Marbella*

Researching relationship between news and the stock market. Algorithmic trading.

**Senior Software Engineer at Essnet** 1998 – 2005  
*Gaming Services, Stockholm/Budapest*

Oversaw design and architecture, conducted studies, evaluated technologies and tools.

### AWARDS

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- 2014, Kaggle Higgs Boson ML Challenge, 1st out of 1785
- 2012, Kaggle Stackoverflow Competition, 1st out of 161
- 2011, Google AI Challenge, 1st out of 4617
- 2009, Computer Games Olympiad, Hex, 3rd place
- 2008, Computer Games Olympiad, Hex, 1st place
- 2004, Computer Games Olympiad, Hex, 1st place
- 2003, Computer Games Olympiad, Hex, 1st place

### SKILLS & STRENGTHS

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- Machine learning
- Programming
- Self-driven
- Strong individual contributor

### EDUCATION

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PhD *Computer Science Department*  
UCL, London  
Thesis: Towards Better Generative Models of Language

MSc *Software Architect – Mathematician*  
ELTE, Budapest  
Major: Artificial Intelligence  
Thesis: Adaptive Neural Networks and Fuzzy Logic

BSc *Programmer – Mathematician*  
ELTE, Budapest

### SELECTED PUBLICATIONS

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- Adaptive Hashing: Faster Hash Functions with Fewer Collisions (*G. Melis, ELS 2024*)
- Mutual Information Constraints for Monte-Carlo Objectives (*G. Melis, A György, P. Blunsom, JMLR 2022*)
- Mogrifier LSTM (*G. Melis, T. Kočíský, P. Blunsom, ICLR 2020*)
- On the State of the Art of Evaluation in Neural Language Models (*G. Melis., C. Dyer, P. Blunsom, ICLR 2018*).

### INTERESTS

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My main interests are machine learning, programming, competitions and board games. I wrote Six, a Hex playing program that won the gold medal at several Computer Games Olympiads. Participated in the Netflix Prize and won the second [Google AI Contest](#). Also won the [Kaggle Stackoverflow](#) and [Higgs Boson](#) contests.

I am the author of various open-source libraries, which can be found on [github](#).



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