

Richard Csaky

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EDUCATION

Budapest University of Technology and Economics, Budapest, Hungary

- [MSc](#) in Software Engineering Sep 2018 – Jun 2020
- [BSc](#) in Mechatronics Engineering Sep 2014 – Jan 2018
 - Degree GPA: 4.79/5.00, Excellent with Highest Honours
 - [Thesis](#): Parking Spot Recognition and Visualization with Semantic Segmentation

EEML, Bucharest, Romania

- Deep Learning and Reinforcement Learning [Summer School](#) Jul 2019 – Jul 2019

PAPERS

- The Gutenberg Dialog Dataset for Neural Conversational Modeling ([Paper](#)) Nov 2019
- Improving Neural Conversational Models with Entropy-Based Data Filtering May 2019
 - R. Csaky, P. Purgai, G. Recski; [Proceedings of the 57th ACL conference](#). [Code](#). [Blog post](#).
- Deep Learning Based Chatbot Models ([Paper](#)) ([Code](#)) Nov 2017
 - My [notes](#) on 150 publications that I have read in the field of deep learning, focusing on dialog agents.
- Study of protein circuits using self-developed software ([Paper](#)) ([Code](#)) Nov 2016

AWARDS

- Third place at the Scientific Students' Associations Conference ([paper](#)) Nov 2019
- Selected for the National Excellence Program (scholarship) Aug 2019
- First place at the National Scientific Students' Associations Conference ([paper](#)) Apr 2019
- First place at the Scientific Students' Associations Conference ([paper](#)) Nov 2017
- Second place at the Scientific Students' Associations Conference ([paper](#)) Nov 2016

EXPERIENCE

Robert Bosch GmbH, Budapest, Hungary

- Software Engineer, Driver Assistant Division Apr 2018 – Aug 2018
Continued the work described below as a full-time employee. Collected a much larger dataset and experimented with the [YOLO model](#), with good results, pushing the project to a demo phase.
- Software Engineer Intern, Driver Assistant Division Jul 2017 – Mar 2018
For my [BSc thesis](#), I built a user interface in OpenGL and OpenCV for selecting parking spots projected on the ground on the real-time feed of a camera. Moreover, I collected and labeled my own dataset, and I researched and trained semantic segmentation models. Please contact me for a copy of my thesis.

Department of Automation and Applied Informatics, Budapest, Hungary

- NLP Researcher Feb 2018 – Present
I am a researcher focused on [neural chatbots](#) and student supervisor. I advised an undergraduate student on a [research project](#) related to unsupervised NMT. Currently, I'm supervising several students working on my neural chatbots project ([1](#), [2](#), [3](#)).
- Teaching Assistant Feb 2017 – Jun 2017
I was a teaching assistant for electrical engineering labs. I helped students complete the lab by explaining the theoretical material and by helping them put together the experiments.

VOLUNTEER ACTIVITIES

Budapest Cultural Center, Budapest, Hungary

- Informatics Lecturer Oct 2012 – May 2013
I taught older people how to use the internet and useful websites like facebook, gmail, google and others.

TALKS & POSTERS

- [EurNLP 2019: Improving Neural Conversational Models](#) Oct 2019
- [NLP for ConvAI workshop @ ACL: Improving Neural Conversational Models](#) Aug 2019
- [ACL 2019: Improving Neural Conversational Models](#) Jul 2019
- [EEML 2019: Improving Neural Conversational Models](#) Jul 2019
- [RAAI 2019: Improving Neural Conversational Models](#) Jun 2019
- [Hungarian NLP Meetup: Neural Chatbots](#) May 2019

LANGUAGES

- Hungarian, Romanian: Native language.
- English: C1 level (TOEFL iBT: 117/120).
- French: B2 level (Advanced level high school final exam).

IT SKILLS

- Mathematica, Inventor, NI LabView, Ansys, R (studied during 1 semester)
- C/C++/C#, Python, Java, Matlab (studied during 2-3 semesters, used in projects)
- OpenGL, TensorFlow, PyTorch, Processing, LaTeX, Git (self-taught, used in projects)