

Richard Csaky

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EDUCATION

University of Oxford, UK

- PhD in Computational Neuroscience and Artificial Intelligence Oct 2020 – Sep 2023

KU Leuven, Leuven, Belgium

- Artificial Intelligence M.S. Erasmus Feb 2020 – Jun 2020
Courses: Bioinformatics, Brain Computer Interfaces, Behavioural Neuroscience, Artificial Neural Networks

EEML, Bucharest, Romania

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

Budapest University of Technology and Economics, Budapest, Hungary

- [M.S.](#) in Software Engineering Sep 2018 – Jun 2020
Excellent with Highest Honours, 4.73/5 degree GPA.
- [B.S.](#) in Mechatronics Engineering Sep 2014 – Jan 2018
Excellent with Highest Honours, 4.79/5 degree GPA.
Thesis: *Parking Spot Recognition and Visualization with Semantic Segmentation*.
Held electrical engineering labs as a teaching assistant for 1 semester.

EXPERIENCE

Department of Automation and Applied Informatics, Budapest, Hungary

- NLP Researcher Feb 2018 – Oct 2019
Supervised several students on project ranging from neural machine translation to RL chatbots ([1](#), [2](#), [3](#), [4](#)).
Wrote a detailed [research proposal](#) and applied to the Amazon Alexa prize with this team.
Won first place in a national competition with a literature review paper of 150 papers in dialogue modeling.
Worked on improving open-domain neural chatbots by data-filtering, and presented results at ACL 2019.
Built a new, large, high-quality dialogue dataset based on books from Project Gutenberg.

Robert Bosch GmbH, Budapest, Hungary

- Software Engineer, Driver Assistant Division Jul 2017 – Aug 2018
Applied semantic segmentation models to parking space segmentation.
Built a user interface, and with the help of a test driver, gathered 10.000 labeled images. Parking spots projected to the ground could be manipulated on the live video of a car camera. Trained YOLO on this dataset achieving impressive results that convinced the department to give further funding to the project.

Budapest Cultural Center, Budapest, Hungary

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

PAPERS

Richard Csaky, Gábor Recski. *The Gutenberg Dialogue Dataset*. EACL 2021. ([Code](#))

Richard Csaky. *Proposal Towards a Personalized Knowledge-powered Self-play Based Ensemble Dialog System*. Preprint 2019.

Richard Csaky, Patrik Purgai, Gábor Recski. *Improving Neural Conversational Models with Entropy-Based Data Filtering*. ACL 2019. ([Code](#))

Richard Csaky, Gábor Recski. *Deep Learning Based Chatbot Models*. TDK 2017. ([Code](#))

Edvárd Bayer, **Richard Csaky**, Balázs Rakos. *Study of dipole-dipole coupled protein-based circuits using self-developed simulation software*. TDK 2016. ([Code](#))

TALKS AND POSTERS

The Gutenberg Dialogue Dataset

- EACL 2021 ([poster](#)) Apr 2021

Brainstream: machine learning driven BCI that translates thoughts into text

- Startup pitch @ [OUBT Biohackathon](#) Mar 2021

Improving Neural Conversational Models with Entropy-Based Data Filtering

- EurNLP ([poster](#)) Oct 2019
- NLP for ConvAI workshop @ ACL ([poster](#)) Aug 2019
- ACL 2019 ([talk](#)) Jul 2019
- EEML ([poster](#)) Jul 2019
- RAAI ([poster](#)) Jun 2019

Deep Learning Based Chatbot Models

- Hungarian NLP Meetup ([slides](#)) May 2019

AWARDS	WIN Studentship at University of Oxford (full PhD funding for 3 years)	Oct 2020
	Erasmus scholarship for 1 semester	Feb 2020
	3rd place at the Scientific Students' Associations Conference (paper)	Nov 2019
	Selected for the National Excellence Program (scholarship)	Aug 2019
	1st place at the National Scientific Students' Associations Conference (paper)	Apr 2019
	1st place at the Scientific Students' Associations Conference (paper)	Nov 2017
	2nd place at the Scientific Students' Associations Conference (paper)	Nov 2016
LANGUAGES	Hungarian, Romanian: Native language	
	English: C1 level (TOEFL iBT: 117/120)	
	French: B2 level (Advanced level high school final exam)	
SKILLS	Mathematica, Inventor, NI LabView, Ansys, R <i>studied during 1 semester</i>	
	C/C++/C#, Python, Java, Matlab <i>studied during 2-3 semesters, used in projects</i>	
	OpenGL, TensorFlow, PyTorch, Processing, LaTeX, Git <i>self-taught, used in projects</i>	