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*. Preprint 2020. (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)

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

TALKS AND POSTERS

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

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 || *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*