Richard Csaky

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EDUCATION

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
- 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.
  Participated in a research project creating a program to simulate and experiment with protein based circuits.

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)

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 — Oct 2012 – May 2013
  Taught older people how to use the internet and useful websites like facebook, gmail, google and others.

AWARDS

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*