

Richard CSAKY

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🌐 ricsinaruto.github.io
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As a final year **PhD** candidate at **Oxford**, I have gained expertise in collecting, analyzing, and **decoding non-invasive brain** data using novel **deep learning** approaches. My background is in robotics and computer science, along with **3 years** of applied machine learning **experience** in **computer vision** and **language processing**. I have a particular interest in **speech BCI** applications and emerging **BCI technologies**.

EDUCATION

PhD in Machine Learning and Neuroscience

Secured \$100,000 studentship.

Presented research at 3 international conferences.

Authored 2 full papers on novel machine learning

[methods](#) for [decoding brain](#) activity.

Designed reading and [inner speech](#) experiments, conducting 30 [EEG](#), [MEG](#), [MRI](#), [OPM](#) sessions.

Wrote over 10,000 lines of code in Python for [data analysis](#), [signal processing](#), and [machine learning](#).

Led 5-person team in a hackathon with a BCI idea.

University of Oxford 📍

2020 – 2023 📅

M.S. Erasmus Semester (with scholarship)

Courses: Bioinformatics, BCI, Neural Networks

KU Leuven (Belgium) 📍

2020 📅

M.S. in Computer Science Engineering

[Thesis](#): Open-domain Neural Dialogue Modelling

Awarded the National Excellence Scholarship.

Attended [EEML](#) (machine learning summer school).

Presented research at 6 conferences and meetups.

Budapest University of Technology (Hungary) 📍

2018 – 2020 📅

B.S. in Mechatronics Engineering

[Thesis](#): Parking Spot Recognition and Visualization

Implemented molecular circuit [simulation platform](#) in [C++](#), winning 2nd place at university conference.

Budapest University of Technology (Hungary) 📍

2014 – 2018 📅

SOFT SKILLS

- Cross-disciplinary
- Leadership
- Adaptable
- Problem-solving

EXPERIENCE

Neuroscientist

📍 BCI Stealth Startup

📅 July 2022 – present

Natural Language Processing Researcher

1. Led [dialog modelling](#) research, publishing a novel [data-filtering](#) method at [ACL](#), and winning a national competition with a review of [150 papers](#)

2. Developed one of the [first Transformer-based chatbots](#), with over 400 stars on GitHub

3. Created and published a new [dataset](#) at [EACL](#)

4. Developed online [GPT2 chatbot](#) used by 100s

5. Mentored students on NLP projects ([1](#), [2](#), [3](#), [4](#))

6. Authored actively used [NLP Python packages](#)

with 10-100 stars on GitHub ([1](#), [2](#), [3](#))

📍 Budapest University of Technology (Hungary)

📅 February 2018 – October 2019

Software Engineer

Built a [UI](#) for real-time manipulation of parking spots on [car camera](#) feed, and collected and [labelled 10,000 images](#).

Adapted and [trained YOLO](#) for parking space [segmentation](#), achieving results that led to the allocation of a dedicated team and additional funding for the project.

📍 [Bosch](#) (Hungary)

📅 July 2017 – August 2018

TECHNICAL SKILLS

Actively using

- EEG/MEG experiment design and execution
- Python, PyTorch
- Git
- LaTeX
- Matlab

Studied and self-taught, used in projects

- Java/Android
- C/C++/C#
- OpenGL
- TensorFlow
- Processing
- Inventor, LabView, Ansys