



# Anna Szonja Weigl

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Engineer at the Lyon Neuroscience Research Center

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Skills: Python MATLAB Javascript SQL

## Experience

**CatalystNeuro** catalystneuro.com

Nov 2020 to Present

Data Scientist Remote

At CatalystNeuro we work closely with neuroscientists to help them standardizing the way they are storing, processing, and visualizing their data. We use state-of-the-art tools to ensure that neuroscience is accessible and shared across the international community.

**Centre de Recherche en Neurosciences de Lyon (CRNL)** crnl.univ-lyon1.fr

Nov 2019 to Present

Ingénieur d'Étude Lyon, France

I work as an engineer in a research team aiming to understand the cognitive neuroscience and neuropsychology behind implicit statistical learning.

- Neural time series data processing
- Functional connectivity analyses
- Statistical analyses

**Realeyes Ltd.** realeyesit.com

Sep 2018 to Nov 2019

Junior Data Engineer Budapest, Hungary

My role within the R&D team was to integrate datasets into our databases and improving our data visualization tool. I collaborated with other teams to build a scalable storage system on AWS.

- ETL
- AWS

**Synetiq Ltd.** synetiq.net

Dec 2017 to Sep 2018

Junior Software Engineer Budapest, Hungary

I was focusing on data processing pipeline development and testing in Python. For an independent research project, I learnt how to cluster emotional responses to find groups of people with similar response profiles.

**Synetiq Ltd.** synetiq.net

Jun 2017 to Dec 2017

Junior Research Manager Budapest, Hungary

Manage, organize and participate in monthly measurement weeks, supervise and train research assistants.

**Synetiq Ltd.** synetiq.net

Sep 2016 to Jun 2017

Laboratory Supervisor Budapest, Hungary

Participate in monthly measurement weeks, manage and help out research assistants with applying biometric sensors.

**Institute of Cognitive Neuroscience and Psychology, MTA TTK** [ttk.hu](http://ttk.hu)

Jan 2016 to Sep 2016

Graduate Student Budapest, Hungary

Study the interictal functional connectivity network changes in patients with temporal lobe epilepsy.

**Laboratory of Cerebral Cortex Research, MTA KOKI** [koki.hu](http://koki.hu)

Jan 2014 to Jan 2016

Undergraduate Student Budapest, Hungary

## Education

**Pázmány Péter Catholic University, Faculty of Information Technology and Bionics**

[itk.ppke.hu](http://itk.ppke.hu)

Sep 2017 to Jan 2020

Master's of Science, Info-Bionics Engineering

This multidisciplinary program provides a deep understanding of biological processes and measurements (e.g.: neural signals, communications, cell-cell interactions, data processing of living organisms) with an aim to develop engineering solutions, instruments, devices, computational algorithms and models to augment or supplement a biological system.

- neural sciences
- electrophysiology
- electronics
- computer science

**Pázmány Péter Catholic University, Faculty of Information Technology and Bionics**

[itk.ppke.hu](http://itk.ppke.hu)

Sep 2012 to May 2016

Bachelor's of Science, Molecular Bionics Engineering

Molecular bionics is a discipline on the boundary of biology, molecular physics and chemistry, and computer technology. The program is run together with Semmelweis Medical University has four disciplinary pillars:

- molecular biology,
- electromagnetic waves in nano- and micron- scale,
- foundations of computing and electronics,
- neurobiology

## Projects

### eeg-connectivity

 [github.com/weiglszonja/eeg-connectivity](https://github.com/weiglszonja/eeg-connectivity)

Framework for computing connectivity measures using MNE

Python, Jupyter Notebook

### eeg-preprocessing

 [github.com/weiglszonja/eeg-preprocessing](https://github.com/weiglszonja/eeg-preprocessing)

A semiautomatic framework for preprocessing EEG data using MNE-Python

Python, Jupyter Notebook

### neuroelectrics\_eeg\_pilot

 [github.com/weiglszonja/neuroelectrics\\_eeg\\_pilot](https://github.com/weiglszonja/neuroelectrics_eeg_pilot)

Sample notebook for preprocessing Neuroelectrics EEG data

Jupyter Notebook

### hrv-analysis

 [github.com/weiglszonja/hrv-analysis](https://github.com/weiglszonja/hrv-analysis)

Heart Rate Variability (HRV) tool for detecting and analyzing peaks on ECG data

Python

### **memo-workshop**

 [github.com/weiglszonja/memo-workshop](https://github.com/weiglszonja/memo-workshop)

Jupyter Notebook

### **gorilla-experiment-demo**

 [github.com/weiglszonja/gorilla-experiment-demo](https://github.com/weiglszonja/gorilla-experiment-demo)

Source code for the experiment demo hosted in Gorilla

CSS, JavaScript, HTML