Hüseyin Camalan

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Website, GitHub, LinkedIn

Skills

Methods	**Bayesian modeling, temporal signal processing, neural networks**
Prog. Languages	**Python, MATLAB**
Scientific	**SciPy, NumPy**
Machine Learning	**scikit-learn, keras, PyTorch, PyBrain**
Databases	**pandas, MySQL**
Misc.	**Matplotlib (visualization), git (version control), Linux, LaTeX**
Spoken languages	**Turkish (native), English (fluent), German (fluent)**

Experience

Mar 2019 – Mar 2020 **Research Assistant (80h/month)** *Department of Neurosurgery, Charité*

- Contribution to the development of a health application
- Analysis of various public medical databases

Mar 2018 – Mar 2019 **Research Assistant (80h/month)** *Fraunhofer Heinrich-Hertz-Institut*

- Prediction of VR viewing behavior using population statistics
- Design, programming and implementation of a Virtual Reality experiment
- Contribution to a paper (see Publications)

As part of education

Mar 2019 – Mar 2020 **Master Thesis** *Department of Psychiatry and Psychotherapy, Charité*

- Implementation of a Bayesian model to predict patient outcomes w.r.t. Alzheimer's disease

Sep 2016 – Feb 2019 **Three lab rotations** *Various research laboratories in Berlin*

- Scientific data analysis on a specific problem, usually involving a machine learning approach (i.e. estimating generalization error through crossvalidation, hyperparameter optimization, etc.)
- Completed with a thorough scientific report and verbal presentation to an expert audience (PDF files of reports are available on my website)

Topics:

- Self-noise prediction on humanoid robots
- Temporal synchronization of brain signals on EEG
- Prediction of VR viewing behavior (see identical job experience above)

Sep 2012 – Jun 2013 **Bachelor Thesis** *Charité*

- Topic: Visual perception
- Design, programming, and implementation of a psychophysics experiment
- Poster presentation in an international scientific conference (see Publications)

Education

Oct 2014 – Mar 2020 **M.Sc. Computational Neuroscience** *Technische Universität Berlin*

- Grade : 1.9 (German Scale, i.e. 1.0 is best)
- Focus: Machine learning, scientific programming, data analysis

Sep 2008 – Jun 2013 **B.A. Psychology** *Bilkent University*

- GPA: 3.94/4.00 (Class Valedictorian)
- Focus: Cognitive Neuroscience
- Exchange Program at University of California, Davis (2011-2012)

Publications

Papers Vielhaben, J., Camalan, H., Samek, W., & Wenzel, M. (2019). Viewport Forecasting in 360° Virtual Reality Videos with Machine Learning. In *2019 IEEE International Conference on Artificial Intelligence and Virtual Reality (AIVR)*, 74-81. IEEE. ***(Honorable mention)***

Posters Camalan, H., Jain, A., Zaidi, Q., & Doerschner, K. (2013). Identification of Surface Reflectance from Motion Cues in Fovea and Periphery. *Perception ECVP Abstract, 42*, 212.

Scholarships & Honors

Aug 2014 – Apr 2017 **Deutsche Akademische Austausch Dienst (DAAD) Scholarship**

Sep 2008 – Jun 2013 **Bilkent University Full Scholarship**

Sep 2008 – Jun 2013 **Scientific Research Council of Turkey (TÜBİTAK) Scholarship**

Interests

Dance, powerlifting, ultimate frisbee, coffee