

Hüseyin Camalan

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📁 [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
Misc.	Matplotlib (visualization), pandas (databases), git, Linux, L^AT_EX
Spoken languages	Turkish (native), English (near-native), German (fluent)

Experience

Mar 2019 – Mar 2020	Research Assistant	<i>Department of Neurosurgery, Charité</i>
	<ul style="list-style-type: none">○ Contribution to the development of a health application○ Analysis of various public medical databases	
Mar 2018 – Mar 2019	Research Assistant	<i>Fraunhofer Heinrich-Hertz-Institut</i>
	<ul style="list-style-type: none">○ Design, implementation and analysis of a VR experiment○ Contribution to a paper (see Publications)	
Sep 2015 – Mar 2016	Research Assistant	<i>Charité</i>
	<ul style="list-style-type: none">○ Programming of a psychophysics experiment on a bistable perception project	
	<i>As part of education</i>	
Mar 2019 – Mar 2020	Master Thesis	<i>Department of Psychiatry and Psychotherapy, Charité</i>
	<ul style="list-style-type: none">○ Implementation of a custom machine learning model to predict patient outcomes regarding Alzheimer's disease	
Sep 2016 – Feb 2019	Three lab rotations	<i>Various research laboratories in Berlin</i>
	<ul style="list-style-type: none">○ Prediction of VR viewing behavior using population statistics○ Application of curve alignment algorithms on EEG signals○ Auditory self-noise prediction on humanoid robots using neural networks	
Sep 2012 – Jun 2013	Bachelor Thesis	<i>Charité</i>
	<ul style="list-style-type: none">○ Topic: Motion and surface perception in peripheral vision○ Design, implementation and analysis of a psychophysics experiment○ Poster presentation in a scientific conference (see Publications)	

Education

Oct 2014 – Mar 2020	M.Sc. Computational Neuroscience	<i>Technische Universität Berlin</i>
	<ul style="list-style-type: none">○ Grade : 1.9 (German Scale, i.e. 1.0 is best)○ Focus: Machine learning, scientific programming, data analysis, project work in teams	
Sep 2008 – Jun 2013	B.A. Psychology	<i>Bilkent University</i>
	<ul style="list-style-type: none">○ 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)*, 74-747. IEEE.
- Posters Camalan, H., Jain, A., Zaidi, Q., & Doerschner, K. (2013). Identification of Surface Reflectance from Motion Cues in Fovea and Periphery. *Perception ECVF 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, strength sports, ultimate frisbee, coffee culture, chili peppers