Lukas Muttenthaler CV □ lukas-mt@live.at • ☑ lukasmut.github.io • LinkedIn

Education

PhD, Computational Neuroscience

Leipzig, Germany

ViCC group, Max-Planck-Institute for Human Cognitive and Brain Sciences

2020-

Topic: Semantic representations of objects in human brains and artificial intelligence systems

Advisor: Martin Hebart

MSc, IT and Cognition (NLP)

Copenhagen, Denmark

Department of Computer Science, University of Copenhagen

2018-2020

Thesis: Deciphering the inner workings of Transformers in the realm of subjectivity

Advisors: Isabelle Augenstein, Johannes Bjerva

BSc, Psychology

Vienna. Austria

Faculty of Psychology, University of Vienna

Thesis: How language shapes motion event cognition

Advisors: Ulrich Ansorge, Thomas Ditye

2015-2018

BA, Political Science & Philosophy

Faculty of Social Sciences, University of Vienna

Advisor: Ursula Naue

Vienna, Austria

2012-2015

Employment

PhD Researcher

Leipzig, Germany

August 2020 -

ViCC group, Max-Planck-Institute for Human Cognitive and Brain Sciences

Research Assistant & Programmer

Machine Learning, Department of Computer Science, University of Copenhagen

Copenhagen, Denmark May 2019 - January 2020

Data Analyst

Technology Advisory, Ernst & Young (EY)

Copenhagen, Denmark

January - April 2019

Research Intern

Department of Clinical Neuropsychology, LMU Munich

Munich, Germany July - September 2017

Student Research Assistant

Vienna. Austria

Cognitive Psychology, Faculty of Psychology, University of Vienna

July 2016 - June 2018

Scholarships & Achievements

EDOC 2019

Paris, France

2019

Best Demonstration Award
Fund of Excellence

Vienna, Austria

one of a few candidates who received funding to pursue a Master's in a STEM subject

2018

Scholarship for Academic Excellence

awarded by UV for three consecutive years for excellent grades in Psychology

Vienna, Austria 2016 - 2018

Performance Scholarship

awarded by Julius-Raab-Foundation due to high achievements in BSc Psychology

Vienna, Austria 2016 - 2018

Scholarship for Academic Excellence

awarded by UV for three consecutive years for excellent grades in Political Science

Vienna, Austria 2013 - 2015

Teaching

Teaching Assistant

Cognitive Psychology II, Faculty of Psychology, University of Vienna Visual Perception, Memory, Attention, Intelligence

Vienna, Austria 2017-2018

Skills

Natural Languages:

English (IELTS 8.0), German (native)

Programming Languages:

Python (extensive), Matlab (intermediate), R (basic), SQL (basic)

Libraries:

PyTorch, TensorFlow, Keras, NumPy, Scikit-Learn, sciPy, Pandas, spaCy

Other technical skills:

LATEX, Unix, Bash, Slurm, GitHub, GitBash, Overleaf, Jupyter

Publications

Peer-reviewed

- SUBMITTED: Muttenthaler, L., Augenstein, I., Bjerva, J. (2020). Unsupervised Evaluation of Question Answering. Under Review for EMNLP 2020.
- o López, H. A., Marquard, M., **Muttenthaler, L.** Strømsted, R. (2019). Assisted Declarative Process Creation from Natural Language Descriptions. In 2019 IEEE 23rd International Enterprise Distributed Object Computing Conference (EDOC). DOI: 10.1109/EDOCW.2019.00027 [Best Demonstration Award]
- o **Muttenthaler, L.**, Lucas, G., Amann, J. (2019). Authorship Attribution in Fan-fictional Texts Given Variable Length Character and Word *n*-grams Notebook for PAN at CLEF 2019. In Linda Cappellato, Nicola Ferro, David E. Losada and Henning Mueller, editors, *CLEF 2019 Labs and Workshops, Notebook Papers, September 2019.* CEUR-WS.org. [Winning team of the PAN authorship attribution competition]
- o Buesel, C., Ditye, T., **Muttenthaler, L.**, Ansorge, U. (2019). A Novel Test of Pure Irrelevance-Induced Blindness. *Frontiers in Psychology*, 10:375. DOI: 10.3389/fpsyg.2019.00375
- **Muttenthaler, L.** (2019). Effective enhancement of attentional functions in the amblyopic brain. *Journal of European Psychology Students*, 10(1), 1-10. DOI: 10.5334/jeps.435

Preprints....

 Muttenthaler, L. (2020). Subjective Question Answering: Deciphering the inner workings of Transformers in the realm of subjectivity. Master's thesis, University of Copenhagen. o Muttenthaler, L., Hollenstein, N., Barrett, M. (2020). Human brain activity for machine attention.