

Antoniya Boyanova

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Education

- 2020–2022 **MSc in Social, Cognitive, and Affective Neuroscience, Freie Universität Berlin**
Courses: Statistical Methods, Neurocognitive Methods and Programming, Cognitive Neuroscience, Affective Neuroscience
- 2015–2019 **MA (Hons) in Psychology, University of Aberdeen, United Kingdom**
Dissertation: *"Attending what's where: the neurophysiology of Multiple-object tracking"*
supervisor: Dr. Søren Andersen - An EEG project looking at the neural mechanisms elicited by attentional modulation and working memory during multiple object tracking (**GPA: 22/22**).
Courses: Neuropsychology of Vision and Action; Applications of Cognitive Neuroscience; Perception; Biological psychology; Statistics (**GPA: 19/22**).
External Course: *Mathematical foundations in Everyday life* (**GPA: 18/22**).
- 2010–2015 **Vasil Levski High School, Velingrad, Bulgaria**
Awarded: High School certificate with honours Bulgarian diploma (**GPA: 5.94/6.00**).

Relevant Work Experience

- 2019–2020 **Research Assistant, Technische Universität Berlin, Germany**
Erasmus+ funded project: *"Classification of mental workload with Brain-Computer Interfaces"*
supervisor: Dr. Thorsten Zander
Gaining extensive knowledge on **Neuroadaptive Technology** in the context of **Human-Machine Interactions**. Expanding my **Matlab** skills by preparing **scripts** for analysis and exploring **signal processing** algorithms. I am also introduced to **Machine Learning** techniques in the context of Neuroscience, through the use of **Python**. I have been closely monitored by completing **critical reviews** and presenting my work on colloquiums.
- Summer 2018 **Research Assistant, University of Aberdeen, United Kingdom**
BBSRC funded project: *"Attention to colour: A spotlight in colour space?"*
supervisor: Dr. Jasna Martinovic
Developed skills in **study design** and advanced in using **colour appearance models** (e.g., CIE LAB). Learned basic operations in **MATLAB**. Completed a course on the mathematical and computational basis of the **Fourier Transform**. Learned how to handle **EEG equipment** and interpret complicated results. Had the opportunity to present my work in front of other researchers in the department and network with other interns, PhD students and postdoctoral fellows.
- Spring 2018 **Research Assistant, University of Aberdeen, United Kingdom**
Voluntary Position: *"Symmetry Perception across the Lifespan"*
supervisor: Dr. Jasna Martinovic
Gained experience in participant recruitment across different ages. Further developed my **organisation** and **time-management** skills. Learned **statistical techniques** beyond the university curriculum.

Awards and Conferences

March 2019	British Psychology Society (BPS) Presented undergraduate dissertation project " <i>Attending what's where: the neurophysiology of Multiple-object tracking</i> ".
2019	Highly Commended by the Global Undergraduate Award .
2019	Commended for the Alan Berkeley Milne Prize in Psychology for best Dissertation.
2018	Received the prestigious BBSRC Research Experience award .
2017	Awarded the STAR Award of University of Aberdeen for my voluntary work.

Technical Skills

MATLAB	Good operation skills in script writing for data analysis; using EEGLAB and BCILAB .
Python	Good operation skills using Data Analytics Packages (Pandas , Matplotlib , StatsModels and MNE) and Machine Learning ones (Scikit-learn).
Other	Proficient use of SPSS , Microsoft Office and L^AT_EX

Academic Skills

EEG equipment	During my RA placements and thesis work I've worked with the BioSemi and Brain Products systems.
Signal Processing	Good understanding of the mathematical and computational basis of the Fourier Transform and Time-Frequency Analysis , acquired after completing an extensive online course.
Analytical and Research Skills	I have been heavily involved in the process of conceptualizing , designing and carrying out an Experiment and later critically evaluating it, which allowed me to develop my scientific reasoning .
Time Management	Throughout my studies I had constant deadlines that needed to be met, while having a part-time job to support myself. Additionally, I was a member in various clubs. This taught me how to efficiently manage my time .
Teamwork and Communication	I have conducted and presented group research on several occasions. This has allowed me to learn how to collaborate and freely exchange ideas.
Languages	Bulgarian (mother tongue), English (proficient), German (intermediate)

Voluntary Experience

2018–2019	Befriend a Child, Aberdeen, United Kingdom Offered support to disadvantaged and troubled school-aged children.
2017–2018	Home-Start, Aberdeen, United Kingdom Provided a family experiencing a difficult situation with practical and mental support.
2017–2018	Yoga Society, Aberdeen, United Kingdom Managed the money of the society, took care of rental costs and teacher's payments.

Reference

Dr. Søren Andersen: skandersen@abdn.ac.uk

Dr. Jasna Martinovic: j.martinovic@abdn.ac.uk