Luca Zugic

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lucazugic.gtihub.io   github.com/lucazugic   linkedin.com/in/lucazugic

Education

MSc Computer Science   University of Birmingham   Sept 2020 – Sept 2021

- Grade expected: Distinction
- Modules: Data Structures and Algorithms, Full-Stack Application Development, AI & ML, Computer Systems, Software Engineering, OOP

BSc (Hons) Neuroscience   University of Central Lancashire   Sept 2017 – May 2020

- First-class honours degree
- Awards:
  - Best Undergraduate Project in Neuroscience (Glen Carrigan Memorial Award)
  - Best Research Project, BSc (Hons) Neuroscience (School of Psychology Award)
  - Outstanding Achievement Award for running Peer Assisted Study Sessions

Experience

Research Assistant and Programmer   University of Central Lancashire   March 2018 – Sept 2020

Social Interaction and Performance Science Lab (uclan.ac.uk/facilities/sinapse)
- Developing programs for statistical data analysis and data visualization (Example of visualisation)
- Conducting research on physiological markers of flow and performance in individuals and teams
- Presenting work at conferences
- Teaching staff and students about research and analysis methodologies
- Utilized: Python, NumPy, Pandas, MATLAB, Java, SPSS, Excel, Git

Publications

Hoyle, B., Taylor, J., Zugic, L., Filho, E. (2020). Coordination Cost and Super-Efficiency in Teamwork: The Role of Communication, Psychological States, Cardiovascular Responses, and Brain Rhythms. *Applied Psychophysiology and Biofeedback, 45*, 323–341. https://rdcu.be/cj5Bo

Projects

TaxCompare (taxcompare.pythonanywhere.com), GitHub
Website that allows users to compare income tax on different salaries in different regions and under different conditions.
Utilized: Flask, Python, HTML, CSS, Git

EEG Visualisation, GitHub
Program for the visualisation of electroencephalographic (EEG) recordings for 21 and 32 channel systems. This program is used in several university labs and was initially developed for the SINAPSE lab at UCLan.
Utilized: MATLAB

Skills

Tech		Soft skills	STEM

- **Python**
  - Django
  - Flask
  - NumPy
  - Pandas
- **HTML**
- **CSS**
- **JavaScript**
- **MATLAB/Octave**
	- **Java**
	- **Git**
	- **DBMS**
	  - PostgreSQL
	  - MongoDB
	- **GNU/Linux**
	- **R**
	- **Weka**
	- **SPSS**
		- **Languages**
		  - English (fluent)
		  - German (fluent)
		  - Spanish (intermediate)
		- **Teaching and Tutoring**
			- **Statistics**
			  - Data Analysis
			- **Life Sciences**
			  - Neuroimaging
			    - EEG
			    - fNIRS
			  - Neuroinformatics
			  - Brain Computer Interfacing

Societies and Hobbies

Societies	Hobbies
- Member of Google Developer Club at UoB (2020 – Present) - Chair of UCLan Neuroscience Society (2019 – 2020) - Chair of UCLan PASS Society (2019 – 2020) - Neuroscience Representative, UCLan FoMSF (2018 – 2019)	- Chess - Basketball - Airplanes