

Beatriz Gonçalves Crisóstomo Esteves

Calle Presidente Felipe González 8, 1ºD, 28500 Arganda del Rey

(+34) 623 028 063 / (+351) 916 793 089

beatriz.gc.esteves@gmail.com / beatriz.gesteves@upm.es

Personal Webpage <https://besteves4.github.io/about-me>

LinkedIn www.linkedin.com/in/beatriz-esteves-032249156/

Nationality Portuguese | Gender Female | Date of birth 12/02/1993



Education

- | | |
|--|-----------------------------|
| E.T.S. de Ingenieros Informáticos, Universidad Politécnica de Madrid, Spain | March/2020 - Present |
| <ul style="list-style-type: none"> • PhD in Artificial Intelligence | |
| Altran Portugal, Lisboa, Portugal in partnership with NOVA LINCS – FCT | November/2017 |
| <ul style="list-style-type: none"> • Training in Big Data technologies
Training in Data Science, Data Visualization and Data Engineering
Final grade 17 (scale from 0 to 20) | |
| Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal | 2014/2017 |
| <ul style="list-style-type: none"> • Master's in Biomedical Engineering – Final average 16 (scale from 0 to 20) | |
| Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal | 2011/2014 |
| <ul style="list-style-type: none"> • Bachelor's in Biomedical Engineering – Final average 15 (scale from 0 to 20) | |

Professional Experience

01/01/2020 – Present: PROTECT project

Early Stage Researcher in PROTECT (H2020 Marie Skłodowska-Curie Action ITN), based at the Ontology Engineering Group, UPM

09/07/2018 – 31/12/2019: Closer Consulting

Consultant I in the Business Intelligence Unit

- **Data Scientist / Analyst in BNP Paribas CIB – Global Markets Resources**
 - Implementation of tools to analyze / explain large amounts of data related to balance sheet and other financial resources;
 - Implementation of predictive models that explain seasonal variations of data linked to financial resources with specific focus on balance sheet metrics;
 - Predict the evolution of metrics linked to banking regulation based on financial market data;
 - Implement Shiny R interactive dashboards to monitor resources and detect errors in databases systems;
 - Implementation of a G-SIB indicators' pricing model for derivative transactions and respective user interface;
 - Development of the prudential netting key and respective allocation logic for SFTs (Securities Financing Transactions) balance sheet computation
 - Demonstration of built-in tool features and how to use them.

20/10/2017 - 06/07/2018: Altran Portugal

Junior Consultant / Engineer in the Research & Development Department

- **Pedestrian Detection using Convolutional Neural Networks (CNN)**
 - Python programming (TensorFlow library);
 - State of the Art review of CNN implementations;
 - Adaptation of Python code for pedestrian detection (SqueezeDet model);
 - Tuning of CNN hyperparameters;
 - Version control with Gitlab

- **Technical writing support to P2020 projects**

13/01/2017 - 25/09/2017: Faculdade de Ciências e Tecnologia

Dissertation project: Personality assessment based on biosignals during a decision-making task.

Areas/ techniques involved

- Python language;
- Signal processing;
- Physiological data modeling;
- Feature extraction / selection techniques;
- Machine learning algorithms – scikit-learn library;
- Hyperparameter tuning;
- Applications in psychophysiology

20/01/2014 - 26/02/2014: Faculdade de Ciências e Tecnologia

Introduction to Scientific Research in Biomedical Engineering: Characterization and comparison of lyophilised gelatin matrices.

Areas/ techniques involved

- Tissue engineering / Lyophilisation / Cell culture;
- SEM / Stress–strain analysis / ATR-FTIR / DSC;

Publications and Oral Presentations

Poster: Cátia Cepeda, Dina Rindlisbacher, Beatriz Esteves, Julian Schneider, Edouard Battegay, Lutz Jäncke, Hugo Gamboa, Marcus Cheetham (2017). *Arousal when making decisions predicts Big Five: A machine learning approach*. Dynamics of Healthy Aging.

Article: Cátia Cepeda, Dina Rindlisbacher, Beatriz Esteves, Edouard Battegay, Hugo Gamboa, Marcus Cheetham. *Computational personality recognition based on psychophysiological arousal during decision making*. Sensors. (Submitted for revision)

Personal Skills

Languages: Portuguese (native language) / English (independent user)

Computer skills:

- Competent with LaTeX and Microsoft Office tools
- Domain of several programming languages: Python, R, C#, MatLab, MySQL, PostgreSQL
 - Data Visualization tools: Tableau, Python (Matplotlib, Seaborn, Bokeh, Plotly, nxviz), R (Shiny, plotly, datatable)
- Version control tools: GitHub, SVN, GitLab