JOHANNES MARIO MEISSNER BLANCO

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EDUCATION

University of Cantabria, Santander   *Sept 2015 - June 2019*
Bachelor of Computer Science   **GPA Average: 92.2 / 100**
Specialization in Computation and Machine Learning

RESEARCH EXPERIENCE / PUBLICATIONS

Deep Learning Image Segmentation for Vocal Cord Recognition   [ongoing]
Target journal: *IEEE Transactions on Biomedical Engineering*
Applying Deep Learning techniques to find the glottis and vocal cords in medical images, achieving state of the art results. Project repository: `https://github.com/mariomeissner/unet-segmentation`

Computer-based Assessment of Traditional Paper-based Exams   [ongoing]
Target journal: *Elsevier Computers & Education*
Based on my Bachelor's Thesis. Using CRNN models to perform Optical Character Recognition of hand-written content in student's exams to obtain a textual representation for evaluation.

Automatic Detection of Handwritten Turing Machines for Assisted Evaluation   [hosted]
Bachelor's Thesis. Defended at Universidad de Cantabria in July 2019.
A thorough review of Machine Learning and Deep Learning concepts, followed by the application of a convolutional and recurrent neural network model to transcribe and assist the evaluation of handwritten Turing machines.

Present and Future of Educational Data Mining: A Review   [published]
International Conference on Education, Technology, Innovation and Development
Summary of the techniques and algorithms used in Educational Data Mining with examples of the problems that they can solve and discussion on the expected future of the discipline. Work supported by my Research Scholarship at University of Cantabria.

ACADEMIC ACHIEVEMENTS

- Received the prestigious **La Caixa Fellowship for Postgraduate Studies**
  to pursue a master's degree in America.   *2020-2021*

- Admitted into the **Vulcanus in Japan** programme, covering a 4-month intensive
  language course and 10-month traineeship in Japan.   *2019-2020*

- Ranked **second** in my graduation group at Universidad de Cantabria, 2019.   *July 2019*

- Received **Funcación Botín Scholarship of Excellence** 3 times in a row.   *2016-2019*

- Won **First Prize at Hack2Progress Santander** Hackathon,
  with cloud-based public lighting management to reduce power consumption.   *November 2018*

WORK EXPERIENCE

NTT Media Intelligence Laboratories
Research Internship

January 2020 - August 2020
Kanagawa, Japan

- · Vulcanus in Japan Scholarship by the EU-Japan Centre for Industrial Cooperation.
- · Working on NLP for customer service centers.

Research Scholarship at University of Cantabria
Research Assistant

November 2018 - June 2019
Santander, Spain

- · Scholarship by the Ministry of Education for top students to carry out research in collaboration with university departments.
- · Applying data mining and text mining techniques to student usage data.
- · Building research tools for working with tabular data: `https://github.com/mariomeissner/moodle-log-parser`.

Siemens
Working Student

November 2017 - June 2018
Munich, Germany

- · Security and product vulnerability monitoring assistance.
- · Improving of in-house monitoring tools.

BRL-CAD
Open Source Contribution

June 2017 - September 2017
Remote

- · European Space Agency Summer of Code Scholarship for 3 months.
- · Implementing heterogeneous density support to their modelling software.

PROJECTS

Encoder-Decoder Model for conversation simulation
2018

Utilizing novel encoder-decoder deep learning models to produce replies to text messages, using my own message history as dataset.

Read more about it here: `https://mariomeissner.github.io/chatbot/`

SKILLS

Languages
Spanish (C2, Native), English (C2), German (C1, Half-native), Japanese (N2)

Programming
Python (Numpy, Tensorflow, Keras...), Java, Javascript, C, R ...