

GIULIO STARACE

giulio.starace@gmail.com ◇ October 3, 2022

EDUCATION

MSc Artificial Intelligence

University of Amsterdam

Amsterdam, The Netherlands

September 2021 - 2023 (ongoing)

- Current GPA: 8.33.
- Electives: Advanced Topics in Computational Semantics, Reinforcement Learning, Neural Dynamics and Deep Learning

ABC Summer School - Computations in Consciousness and Perception

University of Amsterdam

Amsterdam, The Netherlands

June 2022

- 2-week full-time programme with talks by experts from the fields of computational neuroscience, psychology and AI.
- Proposed a bio-plausible AuGMEnT model for long-term memory contra catastrophic forgetting. giuliostarace.com/ltm.

BSc Hons. in Natural Sciences (Physics & Computer Science)

Durham University

Durham, UK

October 2016 - July 2019

- Natural Sciences degree allows candidates to take modules from selected departments.
- Achieved First-Class Honours.

EXPERIENCE

University of Amsterdam - AIRLab

Part-time Researcher (Research Assistant)

Amsterdam, The Netherlands

April 2022 - ongoing

- Working on efficient cross-lingual adaptation of multi-task monolingual prompt-enabled language models.

ESO - European Southern Observatory

Research Engineer

Cerro Paranal, Chile

September 2020 - September 2021

- Worked on high-resolution forecasting of Astronomical Seeing using Machine Learning methods.
- Ran preliminary ARIMA-based approach before moving to LSTM neural networks.
- Led and focused effort on the development of a unified data processing and evaluation pipeline.

Software Engineering Intern

August 2019 - January 2020

- Designed, developed, tested and deployed a system for displaying information from the observatory's several ticket systems in a unified and personalized manner via Microsoft Graph API.

Video.io - startup

ML Engineer

Remote, Anywhere

February 2020 - June 2020

- Worked on implementing abstractive summarization of dialogic video. (Pandas, Google Cloud Speech API).
- Real time speech to text captioning of live video streams (NodeJS Streams, FFmpeg, HLS/DASH video).
- Revamped full-stack of internal experimental website (NodeJS, GraphQL, PostgreSQL, Docker, NGINX, React).

JAXA - Japan Aerospace Exploration Agency

Research Intern

Sagamihara, Japan

August 2018 - October 2018

- Developed software to estimate visibility of satellite given simulated orbits and thermal constraints.
- Performed multi-parameter regression on ro-vibrational dataset so to characterize starburst galaxy NGC253.

PUBLICATIONS AND PERSONAL PROJECTS

- van der Togt et al., *[Re] Badder Seeds: Reproducing the Evaluation of Lexical Methods for Bias Measurement*, 2022. ReScience C 8, #40. 10.5281/zenodo.6574704.
- **GPTrue or False** Browser extension showing the likelihood that given body of text was generated by OpenAI's GPT-2.
- **iclingo** Jupyter Kernel for answer set programming with clingo.
- **bLANS** Tool for converting sane-LaTeX to ANS-flavoured LaTeX and viceversa.

MISCELLANEOUS QUALITIES

Languages

English (Fluent), Italian (Fluent), Spanish (Professional)

Programming Languages

Python, Javascript, SQL, C/C++, HTML/CSS

Libraries

NumPy, PyTorch, Pandas, Huggingface, matplotlib, OpenCV, statsmodels, sklearn

Frameworks and Specs

NodeJS (Express), GraphQL, React, Protocol Buffers

Technologies

Vim, Git, tmux, VSCode, ssh, L^AT_EX, FFMPEG, Docker

giuliostarace.com github.com/thesofakillers linkedin.com/in/giuliostarace