

# GIULIO STARACE

giulio.starace@gmail.com ◇ August 16, 2022

## EDUCATION

**MSc Artificial Intelligence**  
University of Amsterdam

Amsterdam, The Netherlands  
*September 2021 - 2023 (ongoing)*

- Current GPA: 8.33

**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/ltn](http://giuliostarace.com/ltn).

**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

Amsterdam, The Netherlands  
*April 2022 - October 2022 (ongoing)*

- Working on efficient cross-lingual adaptation of multi-task monolingual 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.

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

- Jille van der Togt, Lea Tiyyavorabun, Matteo Rosati, Giulio Starace, 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

**Frameworks and Specs**

NodeJS (Express), GraphQL, React, Protocol Buffers

**Libraries**

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

**Technologies**

Vim, Git, VSCode, ssh, Latex, FFMPEG, Docker

[giuliostarace.com](http://giuliostarace.com)   [github.com/thesofakillers](https://github.com/thesofakillers)   [linkedin.com/in/giuliostarace](https://linkedin.com/in/giuliostarace)