Giulio Starace

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EXPERIENCE

OpenAI   Remote, Anywhere
Research Engineer   *Oct 2023 - Present (Ongoing)*
- Contractor role, working with Preparedness on evaluating model capabilities.
- Shipped PaperBench openai.com/index/paperbench/
- Shipped MLE-bench openai.com/index/mle-bench/
- Shipped SWE-bench Verified openai.com/index/introducing-swe-bench-verified/
- Other evals shipped at github.com/openai/evals feat. Policy Research

University of Amsterdam - AIRLab   Amsterdam, The Netherlands
Part-time Researcher (Research Assistant)   *Apr 2022 - Oct 2022*
- Cross-lingual adaptation of large language models (LLMs). Paper and Code: github.com/thesofakillers/claficle

ESO - European Southern Observatory   Cerro Paranal, Chile
Research Engineer   *Sep 2020 – Sep 2021*
- Worked on forecasting of Astronomical Seeing using ML methods.
- Developed of a unified data processing and evaluation pipeline: pypi.org/project/nowcastlib

Software Engineering Intern   *Aug 2019 – Jan 2020*
- Unified and personalised the observatory's numerous ticket systems via Microsoft Graph API.

Video.io - startup   Remote, Anywhere
Machine Learning Engineer   *Feb 2020 – June 2020*
- Worked on implementing abstractive summarization of dialogic video.
- Real time speech to text captioning of live video streams
- Revamped full-stack of internal experimental website

JAXA - Japan Aerospace Exploration Agency   Sagamihara, Japan
Summer Research Intern   *Aug 2018 – Oct 2018*
- Developed software to estimate visibility of satellite given orbit simulation and thermal constraints.
- Performed multi-parameter regression on ro-vibrational dataset so to characterize starburst galaxy NGC253.

EDUCATION

MSc Artificial Intelligence   GPA: 8.2 (Cum Laude) | Amsterdam, The Netherlands
University of Amsterdam   *Sep. 2021 – October 2023*
- Thesis: Addressing Goal Misgeneralization with Natural Language Interfaces. link: github.com/thesofakillers/nlgoals
- Topics of note: Machine Learning, Deep Learning, Natural Language Processing, Information Retrieval,
  Reinforcement Learning, Spiking Neural Networks

ABC Summer School - Computations in Consciousness and Perception   Amsterdam, The Netherlands
University of Amsterdam   *June 2022*
- 2-week full-time computational neuroscience programme. Developed Project proposal available at giuliostarace.com/ltm.

BSc Hons. in Natural Sciences (Physics & Computer Science)   GPA: First Class Honours | Durham, UK
Durham University   *Oct. 2016 – July 2019*
- Topics of note: Statistics, Vector Calculus, Linear Algebra, Thermodynamics, Quantum & Particle Physics, Databases,
  Algorithms and Data-structures, Cryptography and Information, Compiler Design, Operating Systems, Computer Vision

OTHER PROJECTS & PUBLICATIONS

- Starace et al., *Probing LLMs for Joint Encoding of Linguistic Categories*. Findings of EMNLP 2023.
  arXiv:2310.18696.
- 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.
- **GPTrueOrFalse** (100 + stars on GitHub) Browser extension showing likelihood that given body of text was
  generated by OpenAI's GPT-2.
- **iclingo** Jupyter Kernel for answer set programming with clingo.
- **gigachadify** Put any face onto the Gigachad meme using ML.

MISCELLANEOUS QUALITIES AND SKILLS

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	PyTorch Lightning, WandB, NodeJS (Express), GraphQL, React
Technologies	Vim, Git, tmux, VSCode, ssh, LaTeX, FFMPEG, Docker, SLURM