Max Taylor-Davies

https://maxtaylordavi.es

Summary

I am a third-year PhD student in **computational cognitive science** and **AI**, researching **social cognition** and **learning** in humans and artificial agents.

Email: s2227283@ed.ac.uk

Bordeaux, France

EDUCATION

University of Edinburgh		Edinburgh, UK
PhD, Centre for Doctoral Training in Robot	tics and Autonomous Systems	$Sep \ 2022 - ongoing$
Imperial College London		London, UK
MEng Molecular Bioengineering; 1st class h	conours	$Oct\ 2017-Jul\ 2021$

OTHER RESEARCH EXPERIENCE

INRIA Flowers Lab

Visiting researcher (mentored by Clément Moulin-Frier)	June~2024-Sep~2024
UCL Visual Plasticity Lab	London, UK
Research Assistant	Mar 2022 - Sep 2022

EMPLOYMENT

$ \bullet \begin{array}{c} \textbf{PolyAI} \\ \bullet \\ Intern \rightarrow Software \ engineer \ (part\text{-}time) \end{array} $	London, UK June 2020 – June 2021
$ \bullet \begin{array}{l} \mathbf{MedEngine} \\ \mathit{Intern} \rightarrow \mathit{Research\ engineer\ (part\text{-}time)} \end{array} $	Berlin, Germany June 2018 – Oct 2019

Teaching

	Seminar in Cognitive Modelling	University of Edinburgh
•	$Teaching \ assistant + marker$	2023-24, 2024-25

SELECTED PAPERS

- Taylor-Davies, M., Bramley, N., & Lucas, C.G. A rational framework for group-based selective social learning (Open Mind)
- Taylor-Davies, M. & Quillien, T. An information bottleneck view of social stereotype use (CogSci 2025)
- Taylor-Davies, M., Hamon, G., Boulet, T., & Moulin-Frier, C. Emergent kin selection of altruistic feeding via non-episodic neuroevolution (EvoApps 2025)
- McCallum, S., **Taylor-Davies**, **M.**, Albrecht, S. & Suglia, A. Is feedback all you need? leveraging natural language feedback in goal-conditioned reinforcement learning (Goal-Conditioned Reinforcement Learning Workshop, NeurIPS 2023, selected for spotlight talk)

Invited talks

- Learning about and from other agents, guest lecture in 'computational cognitive science' class @ Edinburgh University (November 2024)
- Social learning and social groups @ Human Decision-making Lab, Edinburgh University (November 2023)
- Imitation, preferences and group identity @ Computational Cognitive Development Lab, Brown University (November 2023)

Awards

- \bullet Best paper, Evo
Apps 2025
- \bullet Best student paper, EvoStar 2025
- 3rd place, IBM prize for best project, UoE Machine Learning Practical course (2023)

Reviewing

Cognition, CogSci (2023, 2024, 2025)