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👤 AdamGleave

# Adam Gleave

## EDUCATION

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**University of California, Berkeley**, PhD in Artificial Intelligence. 2017–

My research focuses on developing techniques for advanced automated systems to act according to human preferences. I am supervised by Prof. Stuart Russell.

**University of Cambridge**, MPhil in Advanced Computer Science. 2015–2016

Graduated with **distinction** and awarded **Best Student Prize**, ranking **1<sup>st</sup>** out of 31 students.

**University of Cambridge**, BA (Hons) in Computer Science. 2012–2015

Graduated with **first class** degree. Awarded **Best Student Prize** in 2014, ranking **1<sup>st</sup>** out of 80 students, and in other years achieved a result in the top 10%.

## PUBLICATIONS

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**Adam Gleave**, Michael Dennis, Cody Wild, Neel Kant, Sergey Levine and Stuart Russell. “Adversarial Policies: Attacking Deep Reinforcement Learning”. In *DeepRL Workshop at NeurIPS*, 2019.

Aaron Tucker, **Adam Gleave** and Stuart Russell. “Inverse reinforcement learning for video games”. In *DeepRL Workshop at NeurIPS*, 2018.

**Adam Gleave** and Oliver Habryka. “Multi-task Maximum Causal Entropy Inverse Reinforcement Learning”. In *GoalsRL Workshop at ICML/IJCAI/AAMAS*, 2018.

Sören Mindermann, Rohin Shah, **Adam Gleave**, Dylan Hadfield-Menell. “Active Inverse Reward Design”. In *GoalsRL Workshop at ICML/IJCAI/AAMAS*, 2018.

**Adam Gleave** and Christian Steinruecken. “Making compression algorithms for Unicode text”. In *Data Compression Conference*, 2017.

Ionel Gog, Malte Schwarzkopf, **Adam Gleave**, Robert Watson and Steven Hand. “Firmament: fast, centralized cluster scheduling at scale”. In *Operating Systems Development And Implementation*, 2016.

## PROFESSIONAL & RESEARCH EXPERIENCE

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**Research Intern**, DeepMind. May 2019–Oct 2019

DeepMind is an AI research lab. I worked with Jan Leike to develop a new method for evaluating reward models. Our method is able to predict whether reward models transfer to unseen environments, and can be used in conjunction with interpretability techniques to understand reward models before deployment. I am continuing to collaborate with Jan and we intend to submit the work to ICML 2020.

**Junior Researcher**, GSA Capital. October 2016–August 2017

GSA Capital is a quantitative hedge fund. I invented a futures trading strategy that was profitable in backtest and is now used in production. Extensive data analysis in Python with some development in Java and Scala.

**Trading Intern**, Jane Street Capital. June–September 2015

Jane Street is a proprietary trading firm. Created novel trading strategy for commodity desk which was profitable in out-of-sample data. Developed a model for the fixed income desk to assist pricing bond ETFs, now used in production.

**Developer Intern**, Jane Street Capital. June–September 2014

Optimized OCaml feed processor yielding  $50\times$  speedup; developed load testing framework leading to  $12\times$  performance improvement in internal protocol.

**Summer Intern**, Raspberry Pi. June–August 2013

Software engineering in C and Python for TAHMO: a low-cost meteorological station.

**Mathematics Intern**, i2OWater. August 2012

Devised a non-parametric model of pressure loss in water utility networks.

**Infrastructure Developer**, AquaMW. January–May 2012

Freelance Python software engineering for green-tech startup during high school.

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## COMMUNITY CONTRIBUTIONS

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**Open-source software.** Maintainer of [Stable Baselines](#) and [imitation](#), implementations of RL and imitation learning algorithms, with over 1500 stars on GitHub.

**Reviewer** for ICML 2020, SafeML Workshop ICLR 2019, I3 Workshop ICML 2019.

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## SELECTED INVITED TALKS

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**Evaluating Reward Models.**

*DeepMind*. September 2019.

**Adversarial Policies: Attacking Deep Reinforcement Learning.**

*Future of Humanity Institute, University of Oxford*. June 2019.

**Scaling inverse reinforcement learning for human-compatible AI.**

*WhiRL Lab, University of Oxford*. October 2018.

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## AWARDS

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**Winton Capital Best MPhil Student Prize**, University of Cambridge. 2016

Awarded for the best result in the MPhil in Advanced Computer Science.

**College Scholarship**, St John's College, University of Cambridge. 2015

Scholarship providing full tuition and living costs, awarded on academic merit.

**Hockin (Wright) Prize**, St John's College, University of Cambridge. 2015

Prize for performance in third year Computer Science examinations.

**G-Research Best Student Prize**, University of Cambridge. 2014

Awarded for the best result in second year Computer Science examinations.

**Leatham (Wright) Prize**, St John's College, University of Cambridge. 2013

Prize for performance in first year Mathematics examinations.

**Pythagoras Prize**, St John's College, University of Cambridge. 2012  
Full tuition scholarship, awarded to one student per year for mathematical aptitude.

TEACHING EXPERIENCE

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**Teaching Assistant**, University of California, Berkeley. 2018-2019  
*Introduction to AI*: presented weekly discussion sections, assisted students at office hours, graded exams and maintained website. *Safety and control for AGI*: helped design curriculum for new course; designed coding project; delivered four lectures; grading.

**Mathematics Instructor**, St John's College, University of Cambridge. 2015  
Delivered intensive two-day course to eight incoming undergraduate mathematicians.