

# SCOTT EMMONS

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## EDUCATION

### University of California, Berkeley

PhD in Artificial Intelligence, *Department of Electrical Engineering and Computer Sciences*. 2019 - Present  
Advised by Stuart Russell.

### University of North Carolina at Chapel Hill

BS, *Mathematics* and BA, *Computer Science*. 2015 - 2019  
Highest Honors for Thesis in Mathematics.

## AWARDS AND HONORS

**Department of Energy Computational Science Graduate Fellowship (\$300,000)** 2019 - 2023

- Supports 4 years of graduate study for 20 U.S. students per year researching high-performance computing.

**Robertson Scholars Leadership Program (\$250,000)** 2015 - 2019

- Highly selective undergraduate merit scholarship providing dual citizenship at UNC and Duke.

**Goldwater Scholar (\$15,000)** 2017 - 2019

- Awarded to 300 students in the U.S. per year for natural sciences, mathematics, and engineering research.

**Archibald Henderson Medal** 2019

- A gold medal, UNC's top undergraduate mathematics prize, given to 1 student per year.

## RESEARCH PREPRINTS

13. Edmund Mills, Shiye Su, Stuart Russell, & **Scott Emmons**: "ALMANACS: A Simulatability Benchmark for Language Model Explainability." *arXiv*, 2023.
12. Luke Bailey\*, Euan Ong\*, Stuart Russell, & **Scott Emmons**: "Image Hijacks: Adversarial Images can Control Generative Models at Runtime." *arXiv*, 2023.

## RESEARCH PUBLICATIONS

11. Alexander Pan\*, Chan Jun Shern\*, Andy Zou\*, Nathaniel Li, Steven Basart, Thomas Woodside, Jonathan Ng, Hanlin Zhang, **Scott Emmons**, & Dan Hendrycks: "Do the Rewards Justify the Means? Measuring Trade-Offs Between Rewards and Ethical Behavior in the MACHIAVELLI Benchmark." *International Conference on Machine Learning (ICML)*, 2023.
10. **Scott Emmons**, Caspar Oesterheld, Andrew Critch, Vince Conitzer, & Stuart Russell: "For Learning in Symmetric Teams, Local Optima are Global Nash Equilibria." *International Conference on Machine Learning (ICML)*, 2022.
9. **Scott Emmons**, Benjamin Eysenbach, Ilya Kostrikov, & Sergey Levine: "RvS: What is Essential for Offline RL via Supervised Learning?" *International Conference on Learning Representations (ICLR)*, 2022.
8. Xin Chen\*, Sam Toyer\*, Cody Wild\*, **Scott Emmons**, Ian Fischer, Kuang-Huei Lee, Neel Alex, Steven H. Wang, Ping Luo, Stuart Russell, Pieter Abbeel, & Rohin Shah: "An Empirical Investigation of Representation Learning for Imitation." *Neural Information Processing Systems (NeurIPS)*, 2021.
7. **Scott Emmons**\*, Ajay Jain\*, Michael Laskin\*, Thanard Kurutach, Pieter Abbeel, & Deepak Pathak: "Sparse Graphical Memory for Robust Planning." *Neural Information Processing Systems (NeurIPS)*, 2020.
6. Eun Lee, **Scott Emmons**, Ryan Gibson, James Moody, & Peter J. Mucha: "Concurrency and Reachability in Treelike Temporal Networks." *Physical Review E*, 2019.
5. **Scott Emmons** & Peter J. Mucha: "A Map Equation with Metadata: Varying the Role of Attributes in Community Detection." *Physical Review E*, 2019.
4. Kris Hauser & **Scott Emmons**: "Global Redundancy Resolution via Continuous Pseudoinversion of the Forward Kinematic Map." *IEEE Transactions on Automation Science and Engineering*, 2018.
3. **Scott Emmons**, Robert Light, & Katy Börner: "MOOC Visual Analytics: Empowering Students, Teachers, Researchers, and Platform Developers of Massively Open Online Courses." *Journal of the Association for Information Science and Technology (JASIST)*, 2017.

2. William H. Weir, **Scott Emmons**, Ryan Gibson, Dane Taylor, & Peter J. Mucha: “Post-Processing Partitions to Identify Domains of Modularity Optimization.” *Algorithms*, 2017.
1. **Scott Emmons**, Mike Gallant, Stephen Kobourov, & Katy Börner: “Analysis of Network Clustering Algorithms and Cluster Quality Metrics at Scale.” *PLoS ONE*, 2016.

#### OPEN-SOURCE SOFTWARE

- Adam Gleave, Mohammad Taufeeque, Juan Rocamonde, Erik Jenner, Steven H. Wang, Sam Toyer, Maximilian Ernestus, Nora Belrose, **Scott Emmons**, & Stuart Russell: “imitation: Clean Imitation Learning Implementations.” *arXiv*, 2022.

#### LEADERSHIP

##### Center for Human-Compatible AI (CHAI)

*PhD Student*

Berkeley, CA  
August 2019 - Present

- Co-managing CHAI’s million-dollar compute budget by purchasing, installing, and maintaining a cluster with 5 nodes, 40 GPUs, and 30 unique users for AI research experiments.
- Co-managing CHAI’s internship program which recruits 12 interns each year to collaborate with the lab.

##### far.ai

*Cofounder and President*

Berkeley, CA  
February 2022 - July 2023

- Built FAR AI, Inc., a 501(c)(3) nonprofit that incubates and scales beneficial AI research agendas.
- Fundraised, recruited, and managed researchers to help define and execute on FAR’s mission.

#### SERVICE

##### Shanti Bhavan Children’s Project

*Volunteer Teacher*

Tamil Nadu, India  
July 2017 - August 2017

- Taught approximately 80 primary and secondary school students from families who make less than \$2 / day in subjects ranging from English literature to physics in preparation for employment and higher education.

##### Sunflower County Freedom Project

*Volunteer Teacher*

Sunflower, MS  
May 2016 - July 2016

- Developed standard-aligned 8<sup>th</sup>- and 9<sup>th</sup>-grade math curriculum and taught it to two math classes that saw an average increase in performance of 9% on state standard test.