

Ethan Perez | CV

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Education

New York University

GPA: 4.0. Advisors: Kyunghyun Cho and Douwe Kiela

Ph.D. Computer Science

September 2018–

Rice University

GPA: 3.98. Distinction in Research and Creative Work

B.A. Computer Science

August 2014–May 2018

Papers

“Red Teaming Language Models with Language Models.” *arXiv 2021, forthcoming.*

Ethan Perez, Saffron Huang, Francis Song, Trevor Cai, Roman Ring, John Aslanides, Amelia Glaese, Nat McAleese, Geoffrey Irving.

“True Few-shot Learning with Language Models.” *NeurIPS 2021.*

Ethan Perez, Douwe Kiela, Kyunghyun Cho.

“Case-based Reasoning for Natural Language Queries over Knowledge Bases.” *EMNLP 2021.*

Rajarshi Das, Manzil Zaheer, Dung Thai, Ameya Godbole, **Ethan Perez**, Jay-Yoon Lee, Lizhen Tan, Lazaros Polymenakos, Andrew McCallum.

“Rissanen Data Analysis: Examining Dataset Characteristics via Description Length.” *ICML 2021.*

Ethan Perez, Douwe Kiela, Kyunghyun Cho.

“Retrieval-Augmented Generation for Knowledge-Intensive NLP Tasks.” *NeurIPS 2020.*

Patrick Lewis, **Ethan Perez**, Aleksandara Piktus, Fabio Petroni, Vladimir Karpukhin, Naman Goyal, Heinrich Küttler, Mike Lewis, Wen-tau Yih, Tim Rocktäschel, Sebastian Riedel, Douwe Kiela.

“Unsupervised Question Decomposition for Question Answering.” *EMNLP 2020.*

Ethan Perez, Patrick Lewis, Wen-tau Yih, Kyunghyun Cho, Douwe Kiela.

“Supervised Multimodal Bitransformers for Classifying Images and Text.” *arXiv 2020.*

Douwe Kiela, Suvrat Bhooshan, Hamed Firooz, **Ethan Perez**, Davide Testuggine.

“Finding Generalizable Evidence by Learning to Convince Q&A Models.” *EMNLP 2019.*

Ethan Perez, Siddharth Karamcheti, Rob Fergus, Jason Weston, Douwe Kiela, Kyunghyun Cho.

“Retrospective for ‘FiLM: Visual Reasoning with a General Conditioning Layer.’”

NeurIPS ML Retrospectives Workshop 2019.

Ethan Perez.

“ELI5: Long Form Question Answering.” *ACL 2019.*

Angela Fan, Yacine Jernite*, **Ethan Perez***, David Grangier, Michael Auli, Jason Weston.

“Visual Reasoning with Multi-hop Feature Modulation.” *ECCV 2018.*

Florian Strub, Mathieu Seurin, **Ethan Perez**, Harm de Vries, Jérémie Mary, Philippe Preux, Aaron Courville, Olivier Pietquin.

“Feature-wise Transformations.” *Distill 2018.*

Vincent Dumoulin, **Ethan Perez**, Nathan Schucher, Florian Strub,

Harm de Vries, Aaron Courville, Yoshua Bengio.

“HoME: a Household Multimodal Environment.”

NIPS 2017 Workshop on Visually-Grounded Interaction and Language Workshop.

Simon Brodeur, **Ethan Perez***, Ankesh Anand*, Florian Golemo*, Luca Celotti, Florian Strub, Jean Rouat, Hugo Larochelle, Aaron Courville.

“FiLM: Visual Reasoning with a General Conditioning Layer.” *AAAI 2018.*

Ethan Perez, Florian Strub, Harm de Vries, Vincent Dumoulin, Aaron Courville.

“Learning Visual Reasoning Without Strong Priors.”

ICML 2017 Workshop on Machine Learning for Speech and Language Processing.

Ethan Perez, Harm de Vries, Florian Strub, Vincent Dumoulin, Aaron Courville.

“Semi-Supervised Learning with the Deep Rendering Mixture Model.” *arXiv 2016.*

Tan Nguyen, Wanja Liu, **Ethan Perez**, Richard G. Baraniuk, Ankit B. Patel.

Research & Industry Experience

DeepMind: Aligning Language Models with Human Preferences

Research with Geoffrey Irving

Summer 2021

Facebook AI Research: Multi-hop Question Answering

Research with Douwe Kiela, Kyunghyun Cho, and Wen-tau Yih

Summer 2019–Spring 2020

Facebook AI Research: Long-form Question Answering

Research with Jason Weston, Michael Auli, and David Grangier

Summer 2018

University of Montreal: Visual Question Answering

Research with Aaron Courville and Hugo Larochelle

Summer 2017–Spring 2018

Rice University: Semi-Supervised Image Classification

Research with Ankit Patel

Fall 2016–Spring 2017

Uber: Fraud Detection with Machine Learning

Internship via KPCB Fellowship

Summer 2016

Google Maps: Localization Algorithms

Internship

Summer 2015

Invited Talks

“True Few-shot Learning with Language Models.”

DeepMind Large-Scale Deep Learning Group, June 2021.

“True Few-shot Learning with Language Models.”

Berkeley Center for Human Compatible AI Seminar, June 2021.

“Rissanen Data Analysis: Examining Dataset Characteristics with Description Length.”

DeepMind and Future of Humanity Institute AI Safety Talk Series, July 2021.

“Retrieval-Augmented Generation for Knowledge-Intensive NLP Tasks.”

DeepMind Natural Language Processing Group, November 2020.

“Proof of Concepts in Aligned Question-Answering.”

DeepMind and Future of Humanity Institute AI Safety Talk Series, July 2020.

“FiLM: Visual Reasoning with a General Conditioning Layer.”

Montreal AI Symposium, September 2017.

<https://youtu.be/02xIkHowQ0k?t=2h44m55s>

“Learning Visual Reasoning Without Strong Priors.”
Deep Language Workshop, University of Montreal, September 2017.

Awards

Open Philanthropy AI Alignment Research Grant, 2021

Awarded around half a million dollars to hire engineers and interns for research on aligning language models with human preferences.

Open Philanthropy AI Fellowship Recipient, 2020

One of 10 PhD students chosen for fellowship support for work on improving the long-term impact of AI.

New York Academy of Sciences, STAR Talk Winner, 2020

Awarded for work on “Retrieval-Augmented Generation for Knowledge-Intensive NLP Tasks.”

NSF Graduate Research Fellowship Recipient, 2018

One of 2,000 recipients chosen (out of 12,000).

Hertz Fellowship Finalist, 2018

One of 40 finalists selected (out of 700).

Rice Engineering Department Outstanding Senior Award, 2018

Awarded to one senior in the Rice Engineering department for academic and creative achievement.

Rice Computer Science Junior Merit Award, 2017

Awarded to one junior in Computer Science for academic and creative achievement.

Kleiner Perkins Caufield and Byers Fellowship, 2016

One of 54 KPCB Engineering Fellows selected (out of 2,500).

Chevron Computer Science Scholarship Winner, 2015

Awarded to one Rice University freshman in Computer Science.

American Mathematics Competition: 90th Nationwide, 2012

Amongst 10th graders in the U.S. (Certificate of Distinction).

Teaching, Service, and Activities

African Master’s of Machine Intelligence Lab Lecturer, 2021

Stanford Existential Risk Initiative: Supervisor

for project on learning to generate advice using human feedback, 2021

Reviewer for EMNLP, NeurIPS, ICLR, CoNLL, ACL, ICML, 2018-present

NeurIPS Visually-Grounded Interaction and Language Workshop Organizer, 2018

NYU: Guest Lecture for Computer Vision: “RNNs and Image Captioning,” Fall 2018

Workshop on AI Safety, Machine Intelligence Research Institute, 2017

Rice University: Teaching Assistant for Computational Thinking, Fall 2016

Rice University: Teaching Assistant for Algorithms and Discrete Math, Spring 2016

St. Mark’s Catholic School: MathCounts Program Founder & Coach, 2012–2014