

# Kevin Meng

<https://mengk.me>

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## EDUCATION

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- **Massachusetts Institute of Technology** Cambridge, MA  
*S.B. & M.Eng., Electrical Engineering and Computer Science* 2020-2024
  - **Coursework:** Algorithms for Inference (G), Distributed Systems (G), Applied Cryptography (G), Robotic Manipulation (G), Representation and Reasoning (G), Program Synthesis (G), ML-Driven Therapeutic Design (G), Quantum Physics, Nanotechnology, Complexity Theory, Signal Processing, Microcomputer Lab
  - **Master's Thesis:** Interpreting and editing memory in language models

## RESEARCH

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- **Publications:** Machine learning papers at NeurIPS '22, ICLR '23/24, ICML '22, ACM Transactions.
- **Talks:** Invited to Google, NVIDIA, AstraZeneca, MIT CSAIL/BCS, Georgia Tech, NSA, 7-Eleven R&D Labs.

## WORK EXPERIENCE

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- **Ember Labs** San Francisco, CA  
*Co-Founder* Jan 2023 – Present
  - Building next-generation database technology to streamline qualitative knowledge processing.
  - Serving and collaborating with energy, finance, education, and software firms.
- **MIT Computer Science and AI Laboratory, Northeastern University** Cambridge, MA  
*Research Scientist, Visiting Researcher* Aug 2020 – Present
  - **LLM Interpretability (NeurIPS '22):** Studied how large language models store and recall factual associations. Presented at NeurIPS '22 in New Orleans, USA. <https://rome.baulab.info>.
  - **Model Editing (ICLR '23):** Proposed an algorithm for packing tens of thousands of new memories into a large language model. Presented at ICLR '23 in Kigali, Rwanda. <https://memit.baulab.info>.
  - **LLM Relation Decoding (ICLR '24):** Investigated simple linear models of relation decoding in transformers. To be presented at ICLR '24 in Vienna, Austria. <https://lre.baulab.info>.
- **Gantry** San Francisco, CA  
*Software/Machine Learning Engineer* May 2022 – Aug 2022
  - Built infra for continual machine learning systems. Led R&D and implementation of a heuristic tree search algorithm for automatically discovering underperforming data slices.
- **NVIDIA Corporation** New York, NY  
*Machine Learning Research Engineer* Jun 2021 – Nov 2021
  - Designed a state-of-the-art pipeline for drug-target interaction (DTI) modeling using a hybrid self-attention and convolution-based architecture. Work to be integrated into NVIDIA's Clara Drug Discovery platform.
- **UT Arlington Innovative Database Intelligence Lab** Arlington, TX  
*Research Assistant, Visiting Researcher* Jun 2018 – Present
  - Wrote three papers on data-driven computational journalism: gradient-based adversarial training on transformer neural networks (ACM Transactions), an NLP-powered COVID-19 dashboard (EACL '21), and an end-to-end fact checking system (NeurIPS AI4CE '21). Developed software used by thousands of fact-checkers worldwide.

## SELECTED HONORS

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- **HackMIT Grand Prize + DRW DataViz Winner:** \$4,000 prize, 4 Oculus headsets (#1 Team of 2,000 students).
- **Intel ISEF:** Best in Category (Top 22 of 7M competitors), 9x Grand/Special Awards. Cumulative \$27,000 won.
- **2020 Coca-Cola Scholar:** \$20,000 prize awarded to 150 students in the United States (100,000 applicants).
- **2020 ACM Cutler-Bell Prize Winner:** \$10,000 research prize awarded to 4 students in the United States.

## TECHNICAL SKILLS

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- **Languages:** Python, Javascript, Typescript, C, C++, Java, HTML/CSS,  $\LaTeX$ , Bash, VBA
- **Frameworks:** PyTorch, TensorFlow, Mongo/Express/React/Node, Flask, Nginx, React Native, Android Studio
- **Tools:** MATLAB, Git, Docker, GCP, AWS, Unity3D, Premiere Pro, AutoDesk, Mathematica, IBM SPSS