

Kevin Meng

<https://mengk.me>

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EDUCATION

- **Massachusetts Institute of Technology** Cambridge, MA
B.S./M.S. Computer Science & Electrical Engineering, Minor in Math. Technical GPA: 5.0/5.0 On leave
 - **Coursework:** Algorithms for Inference (G), Distributed Systems (G), Applied Cryptography (G), Robotic Manipulation (G), Decision-Making w/ Uncertainty (G), ML for Therapeutic Design (G), Algorithms I/II, Machine Learning, Signal Processing, Linear Algebra, Nanotechnology, Microcomputer Laboratory

RESEARCH

- **Publications:** Lead-author machine learning papers at ICLR '23, NeurIPS '22, ICML '22.
- **Presentations:** Talks at Google, NVIDIA, AstraZeneca, MIT CSAIL/BCS, Georgia Tech, NSA, 7-Eleven R&D Labs.

WORK EXPERIENCE

- **Ember Labs** NYC, SF, Boston
Co-Founder Jan 2023 – Present
 - Building a next-generation database. Venture-backed.
- **MIT Computer Science and AI Laboratory, Northeastern University** Cambridge, MA
Research Scientist, Visiting Researcher Aug 2020 – Present
 - **Interpretability (NeurIPS '22):** Studied how large language models store and recall factual associations. Collaborated with MIT, Harvard/Northeastern, Technion-IIT researchers. <https://rome.baulab.info>.
 - **Model Editing (ICLR '23):** Proposed an algorithm for packing tens of thousands of new memories into a large language model. To be presented at ICLR '23 in Kigali, Rwanda. <https://memit.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** Santa Clara, CA
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 deployed to NVIDIA's Clara Drug Discovery platform.
- **PathZero.AI** Cambridge, MA
Computer Vision Consultant Jan 2021 – Jun 2021
 - Developed PathZero's state-of-the-art computer vision pipeline from scratch; integrated backend models with a web-based user interface for pitching & demos. Startup currently in stealth-mode.
- **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, 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

- **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

- **Languages:** Python, Javascript, Typescript, C, C++, Java, HTML/CSS, L^AT_EX, 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