Daniel Li, Ph.D

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Irvine, CA 92620
[Address Redacted]

EDUCATION

Columbia University – Graduate School of Arts and Sciences   **New York, NY**
Ph.D. in Artificial Intelligence & Human Computer Interaction   *Sep 2018 – Oct 2022*
- Thesis: *Enabling Structured Navigation of Longform Spoken Dialog with Automatic Summarization*
- Advisor: Prof. Lydia Chilton @ Computational Design Lab

M.Phil. in Artificial Intelligence   *Sep 2018 – Jan 2021*
- Relevant Coursework: Artificial Intelligence, Computer Vision, Graphical Models, Deep Learning

University of California, Berkeley - College of Engineering   **Berkeley, CA**
M.S. in Electrical Engineering & Computer Science   *Aug 2017 - May 2018*
- Thesis: *Adaptive Memory Networks*
- Advisor: Satish Rao @ Computer Science Theory Group

B.S. in Electrical Engineering & Computer Science   *Aug 2014 – May 2017*
- Relevant Coursework: Algorithms & Uncertainty, Beyond Worse Case Analysis, Combinatorial Algorithms, Computational Geometry

CURRENT POSITIONS

Proprietary Trading Group[1]   **Various**
Co-Founder & Trader (2)   *Jan 2017 – Present*
- **Mid 7 figure (USD) accounts, low 8 figure (USD)** notional position sizing, utilizing personal assets.
- **Performance: 550% ROI since inception.** Various strategies; sectors: equities, commodities, digital assets.

Angel Investor   **Various**
Individual   *June 2023 – Present*
- Strategic investments in diversified sectors **achieving 30x+ ROI and unicorn status**
- B&N Mining: Gold, silver, and tungsten exploration in Southern California; strategic land acquisitions.
- xdof.ai: Developing the core robotics infrastructure for enabling the next generation of intelligent robot systems

Dekrypt Capital   **Various**
Limited Partner   *Dec 2017 – Present*
- Venture capital, starting LP. **9 figure (USD) AUM**; co-investors include a16z, Coinbase Ventures, Softbank, Tiger Global

MILITARY EXPERIENCE

United States Army, Active Component   **Fort Benning, GA**
Infantry Officer, 1st Lieutenant   *Oct 2022 – Feb 2026*
- Trained to lead Infantry Soldiers at the platoon level and coordinate combined armed forces during ground missions, specifically to attack and close within the last 100 yards to defeat enemy combatants in close-range combat.
- Selected as the *aide-de-camp* to coordinate operations and logistics between headquarters and training companies.

Infantry Basic Officer Leader Course, *22-week course training infantry lieutenants to lead infantry platoons*   **Fort Benning, GA**
Infantry Blue Cord, awarded to all infantry-qualified Soldiers   *Apr 2025[2]*

Airborne School, *3-week course teaching parachute jumping techniques and airborne operations*   **Fort Moore, GA**
Parachutist Badge, qualification earned after completing 5 required parachute jumps at 1,200 feet   *Oct 2023*

Officer Candidate School, *12-week course and one of four paths to become a commissioned Officer in the Army*   **Fort Benning, GA**
Officer Commission, 2nd Lieutenant   *Apr 2023*

Basic Combat Training, *10-week course teaching fundamental combat skills*   **Fort Leonard Wood, MO**
Enlisted, Specialist   *Dec 2022*

WORK EXPERIENCE

Google Research & Machine Intelligence   **Mountainview, CA**
Researcher @ Cloud AI Translate   *May 2021 – Feb 2022*
Researcher @ Google Translate   *May 2020 - Feb 2021*
- Investigated confidence calibration in multilingual translation and **neural machine translation** robustness for speech recognition
- Improved automatic quality classification of translation systems and automatic speech translation by **+1 to +1.4 BLEU points**

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[1] Not currently incorporated as any official entity.
[2] Length of training extended by 13 months due to a combatives injury requiring 2 operations and a surgery.

Memorial Sloan Kettering Cancer Center
Research Intern
- Computer vision techniques for analyzing and understanding cell geometries in tumor data for interpretability

New York, NY
May 2019 – Sep 2019

NEC Research Institute
Research Intern
- Deep learning research in adaptive memory networks with a focus on faster inference

Princeton, NJ
May 2017 – Sep 2017

Factual, 4Square
Software Engineering Intern
- Implemented deduplication techniques for fuzzy entity resolution of locations data in large scale databases

Los Angeles, CA
May 2016 – Sep 2016

Carl's Jr.
Cashier
- Processed customer orders and payments while delivering friendly service in a high-volume fast-food environment

Irvine, CA
May 2015 - Sep 2015

ACADEMIC EXPERIENCE

Columbia University
Teaching Assistant
- COMS 4170: User Interface Design, 2 semesters
- COMS 4762: Machine Learning for Functional Genomics, 1 semester

New York, NY
Fall 2018, Spring 2019, Fall 2019

University of California, Berkeley
Teaching Assistant
- CS 160: User Interface Design and Development, 2 semesters

Berkeley, CA
Fall 2017, Spring 2018

PUBLICATIONS

1. **Daniel Li**∗ , Thomas Chen∗ , Albert Tung, Lydia Chilton. "Improving User Navigation and Browsing of Longform Spoken Dialog." *Conference on Human Factors in Computing Systems*
   2023
   acceptance < 27%

2. Daniel Li, Junpei Zhou, Music Li. "Investigating Translation Quality Estimation in Bilingual Models." *ArXiV*
   2022
   N/A

3. **Daniel Li**∗ , Thomas Chen∗ , Albert Tung, Lydia Chilton. "Hierarchical Summarization for Longform Spoken Dialog." *ACM Symposium on User Interface Software and Technology*
   2022
   acceptance < 22%

4. Jennifer Chen, Faisal Ladhak, **Daniel Li** and Noémie Elhadad. "Incorporating Human Explanations for Robust Hate Speech Detection." *ACL-IJCNLP 2021 Workshop: Understanding Implicit and Underspecified Language*
   2021
   unspecified

5. **Daniel Li,** Te I, Naveen Arivazhagan, Colin Cherry, Dirk Padfield. "Sentence Boundary Augmentation For Neural Machine Translation Robustness." *International Conference on Acoustics, Speech, and Signal Processing*
   2021
   acceptance < 49%

6. **Daniel Li**∗ , Jennifer Chen∗ , Qiang Ma, Andrew Liu, Justin Cheung, Yubin Xie, Herman Gudjonson, Dana Pe'er, Itsik Pe'er. "Counterfactual Hypothesis Testing of Tumor Microenvironment Scenarios Through Semantic Image Synthesis." *BioArXiV*
   2020
   N/A

7. Justin M. Cheung, Hanan Baker, **Daniel Li**, Daniel Stor, Daniel A. Heller. "Abstract 1719: Drugloaded porphyrin nanoparticles as a platform for targeted and photodynamic combination therapy." *American Association for Cancer Research*
   2019
   unspecified

8. **Daniel Li,** Asim Kadav. "Adaptive Memory Networks." *International Conference on Learning Representations*
   2017
   acceptance < 33%

ADDITIONAL INFORMATION

Technical Skills:	Python, PyTorch, TensorFlow, Scikit-Learn, NumPy, Huggingface, Natural Language Processing, Computer Vision, Artificial Intelligence, systems design, feature extraction
Financial Skills:	Trading (equities, commodities, digital assets), Technical Analysis, Fundamental Analysis, Algorithmic Trading, Venture Capital (valuation, go to market, etc.), Risk & Tax Compliance
Military:	Light infantry weapons (M4, M240B, M249, M320, Patrolling, Night Operations, Troop Leading Procedures, Small Unit Tactics, Operations Orders (OPORD), Land Navigation
Awards:	Google Cloud Grant (2x), NVIDIA Grant
Miscellaneous:	5.0 star Uber passenger rating (2022), Counter Strike: Global Offensive rank of SMFC - top 2.6% (2017)