Daniel Li

[Identifying Information Redacted]

Email: write2daniel.li[at]gmail.com

Citizenship: United States of America

Education

2022-2023	Officer Commission ¹ . ogS Candidate, United States Army Officer Candidate School.
2018-2022	Рн.D. Computer Science, Columbia University.
2018-2021	M.Рнц. Computer Science, Columbia University.
2017-2018	M.Sc. Electrical Engineering and Computer Science, University of California, Berkeley.
2014-2017	B.Sc. Electrical Engineering and Computer Science, University of California, Berkeley.

Areas of Specialization

Artificial Intelligence • Natural Language Processing • Financial Markets

Current Position(s)

2017-Present

Co-Founder (2), Proprietary Trading²

- Mid 7 figure (USD) accounts, low 8 figure (USD) notional position sizing.
- Performance: 550% ROI since inception (as of Q1'22).
- \bullet Various strategies; sectors: equities, commodities, digital assets.

2018-Present

Limited Partner, Dekrypt Capital

- Starting LP in blockchain venture capital firm, 9 figure (USD) AUM.
- Co-investors include a16z, Coinbase Ventures, Softbank, Tiger Global.

2022-Present

09S Officer Candidate, United States Army

- Active Duty, Intended MOS: 11A Infantry Officer.
- Officer Candidate School at Fort Benning, Georgia.
- Basic Combat Training at Fort Leonard Wood, Missouri.
- Patriotic call to serve and give back for all the opportunities I was given.

Industry Experience

2021-2022

Researcher, Google Research & Machine Intelligence @ Cloud AI Translation

- Investigated confidence score calibration in multilingual quality estimation.
- \bullet Improved automatic quality classification of translation systems.

¹In Progress.

²Using personal assets among co-founders, currently not incorporated as any entity. No active positions as of Q1'22.

2020-2021 Researcher, Google Research & Machine Intelligence @ Google Translate

- Neural machine translation robustness for automatic speech recognition.
- Improved automatic speech translation by +1 to +1.4 BLEU points.

2019s Researcher, Memorial Sloan Kettering Cancer Center

• Computer vision techniques for analyzing and understanding tumor data.

20178 Research Intern, NEC Laboratories

20168

2022

• Deep learning research in adaptive memory networks with a focus on faster inference.

Software Engineering Intern, Factual Inc. (Foursquare)

Fuzzy entity resolution of large scale databases.

Academic Positions

2018-2022 Ph.D Researcher, Computational Design Lab at Columbia University

- Natural Language Processing focused on abstractive summarization for speech applications.
- Thesis: Enabling Structured Navigation of Longform Spoken Dialog with Automatic Summarization.
- Advisor: Professor Lydia Chilton.

2017-2020 Graduate Student Instructor, UC Berkeley and Columbia University

• User Interface Design & Machine Learning for Functional Genomics.

2016-2018 Research Assistant, Rao Group at UC Berkeley

- Investigation on gene feature identification and accurate dimensionality reduction through memory autoencoders.
- Thesis: Adaptive Memory Networks.
- Advisor: Professor Satish Rao.

2015-2018 Research Assistant, Pachter Lab at UC Berkeley

• Research in approaches to RNA-sequencing with features in abundance estimation, transcript annotation difficulties, differential expression.

Publications

Daniel Li*, Thomas Chen*, Thomas Chen, Albert Tung, Lydia Chilton. *An Abstractive Hierar-chical Dialog Summarization Corpus: Designing, Collecting, and Annotating Recursive Summaries*. Columbia University, Microsoft, Stanford University. *In Preparation*.

Daniel Li*, Thomas Chen*, Albert Tung, Lydia Chilton. *Improving User Navigation and Browsing of Longform Spoken Dialog.* Columbia University, Microsoft, Stanford University. *In Preparation*.

Daniel Li, Junpei Zhou, Music Li Lydia Chilton. *Investigating Translation Quality Estimation in Bilingual Models*. Google, Columbia University. *Under Review*.

Daniel Li*, Thomas Chen*, Albert Tung, Lydia Chilton. *Hierarchical Summarization for Longform Spoken Dialog*. Columbia University, Microsoft, Stanford University. **UIST 2021**.

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

Daniel Li, Te I, Naveen Arivazhagan, Colin Cherry, Dirk Padfield. Sentence Boundary Augmentation For Neural Machine Translation Robustness. Google Research. **ICASSP 2021**.

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*. Columbia University, Google, Memorial Sloan Kettering Cancer Center. **BioArXiV**.

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.*Memorial Sloan Kettering Cancer Center. **American Association for Cancer Research**.

Daniel Li, Asim Kadav. *Adaptive Memory Networks*. University of California, Berkeley, NEC Laboratories America. **ICLR 2018**.

Patents

2020

2017

System and method for faster interfaces on text-based tasks using adaptive memory networks. Patent Number: 10853575. Asim Kadav, **Daniel Li**. NEC Laboratories America.

Skills

Programming Python, PyTorch, TensorFlow, Scikit-Learn, NumPy

Finance Trading (equities, commodities, digital assets), Technical Analysis, Fundamental Analysis, Algorithmic Trading, Venture Capital (valuation, go to market, etc.), Risk & Tax Compliance

Design/UI/UX Graphic Design (Figma, Omnigraffle), Ideation, Interviewing, Iterating and Prototyping, Pitch Deck and Presentation Design, Typography

Miscellaneous Public Speaking, Actual Attention to Detail, Teaching, Open Ended Research, Technical Writing

Awards

2022	Google Cloud Grant
2020	Google Cloud Grant
2019	Ph.D. Service Award
2018	ICLR Travel Grant
2017	NVIDIA Grant

Service and Reviewing

User Interface Software and Technology **UIST**, Empirical Methods in Natural Language Processing **EMNLP**

Selected Coursework

Theory Algorithms & Uncertainty, Beyond Worse Case Analysis, Combinatorial Algorithms, Computa-

tional Geometry

AI/ML Artificial Intelligence, Computer Vision, Graphical Models, Deep Learning

Applications Machine Learning for Functional Genomics, Statistical Genomics, Computational Photography,

User Interface Design and Development

Miscellaneous Entrepreneurship, Cybersecurity Venture Capital, Data and Ethics, Public Speaking, U.S. Education

Institutions, Critical Studies in Education, The Southern Border

Miscellaneous

5 star Uber passenger rating

Able to see in the dark, DTNVG (L3 20UA WP)