Daniel Li

[Identifying Information Redacted]

Email: write2daniel.li[at]gmail.com

Citizenship: United States of America

Education

2018-2022	Ph.D. *Computer Science*, Columbia University.
2018-2021	M.Phil. *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)

2022-present *09S Officer Candidate*, United States Army
• Active Duty, (Intended MOS: 11A Infantry Officer)

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.

Industry Positions

2017-2022 *Co-Founder (2)*, Proprietary Trading[1]
• **7 figure** (USD) accounts with a **550% ROI** since inception.
• Various strategies, instruments, and markets.

2021 *Researcher*, Google Research @ *Cloud AI Translation*
• Confidence score calibration in multilingual quality estimation

2020 *Researcher*, Google Research @ *Google Translate*
• Neural machine translation robustness for automatic speech recognition

2019s *Researcher*, Memorial Sloan Kettering Cancer Center
• Research in cancer tumor biopsy images

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[1]Using personal assets among co-founders, currently not incorporated as any entity.

2017s   *Research Intern*, NEC Laboratories
- Deep learning on memory recurrent networks.

2016s   *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

2022   **Daniel Li***, Thomas Chen*, Thomas Chen, Albert Tung, Lydia Chilton. *An Abstractive Hierarchical 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.*

2021   **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.*

2020   **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**.

2019   Justin M. Cheung, Hanan Baker, **Daniel Li**, Daniel Stor, Daniel A. Heller. *Abstract 1719: Drug-loaded porphyrin nanoparticles as a platform for targeted and photodynamic combination therapy.* Memorial Sloan Kettering Cancer Center. **American Association for Cancer Research**.

2017   **Daniel Li**, Asim Kadav. *Adaptive Memory Networks.* University of California, Berkeley, NEC Laboratories America. **ICLR 2018**.

Patents

2020   *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

2022   User Interface Software and Technology **UIST**, Empirical Methods in Natural Language Processing **EMNLP**

Selected Coursework

Theory   Algorithms *&* Uncertainty, Beyond Worse Case Analysis, Combinatorial Algorithms, Computational 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

2022   5.0 star Uber passenger rating
2021   Able to see in the dark, DTNVG (L3 20UA WP)