

# Daniel Li

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## Education

United States Army  
Commission (OCS) May 2023\*

Columbia University  
Area in Computer Science:  
Natural Language Processing  
Human Computer Interaction  
Ph.D Fall 2018 - Summer 2022  
M.Phil Fall 2018 - Spring 2021  
Advisor: Prof. Lydia Chilton

University of California, Berkeley  
Area in Electrical Engineering  
& Computer Science  
M.Sc. Fall 2017 - Spring 2018  
B.Sc. Fall 2014 - Spring 2017  
Advisor: Prof. Satish Rao

## Skills

Financial Instruments  
Derivatives : Equities : Crypto :  
Venture Capital

Trading & Risk Analysis  
Discretionary : Technical (Signals)  
Tax & Compliance

Programming  
Python : LaTeX : Bash : CSS/HTML

Frameworks & Libraries  
PyTorch : Tensorflow : NumPy :  
Hugging Face : AllenNLP

Natural Language Processing  
Summarization : Translation :  
Question Answering Systems

Design & UI & UX  
Figma : Omnigraffle : Prototyping :  
User Studies

## Current Positions

Proprietary Trading Group<sup>1</sup> March 2017 : Present  
Co-Founder (total team of 2) Trading  
◦ Various strategies (fundamental and algorithmic); sectors: equities, commodities, digital assets  
◦ Mid 7 figure USD accounts, low 8 figure USD notional position sizing, 550% ROI since inception

Dekrypt Capital February 2018 : Present  
Limited Partner (LP) Venture Capital  
◦ Blockchain and privacy-preserving focused firm, 9 figure USD AUM  
◦ Co-investors: a16z, Coinbase Ventures, Arrington XRP, Softbank, Tiger Global, Samsung Next

United States Army (Active Duty) October 2022 : Present  
Officer Candidate (09S) Military Service  
◦ Patriotic call to serve and give back for all the opportunities I was given  
◦ Intended branch: Infantry; BCT @ Ft. Leonard Wood, OCS @ Ft. Benning

## Industry Experience

Google Research Summer, Fall 2021  
Researcher @ Cloud AI Translation Natural Language Processing  
◦ Investigated confidence score calibration in multilingual quality estimation  
◦ Improved automatic quality classification of translation systems

Google Research Summer, Fall 2020  
Researcher @ Google Translate Natural Language Processing  
◦ Investigated multilingual translation models using SOTA English classifiers  
◦ Improved automatic speech recognition translation by +1 to +1.4 BLEU

Memorial Sloan Kettering Cancer Center Summer 2019  
Researcher @ Dana Pe'er Lab Computer Vision & Imaging  
◦ Computer vision techniques for analyzing and understanding tumor data

NEC Research Institute Summer, Fall 2017  
Research Intern Natural Language Processing  
◦ Research in adaptive memory networks with a focus on faster inference

Factual Inc. Summer 2016  
Software Engineering Intern Natural Language Processing  
◦ Worked on probabilistic deduplication, entity resolution, and record linkage

## Academic Experience

NLP & HCI @ Columbia University Fall 2018 : Summer 2022  
PhD Researcher @ Computational Design Lab Natural Language Processing  
◦ Doctoral Thesis: *Enabling Structured Navigation of Longform Spoken Dialog with Automatic Summarization*  
◦ Focused on abstractive summarization for speech applications.  
◦ Supervised 2 Masters' and 2 Bachelors' student research projects

<sup>1</sup> Using personal assets among co-founders, currently not incorporated as any entity.

\* Anticipated and in progress

**Mathematics & Statistics**  
Linear Algebra : Probability :  
Bayesian Inference

**Miscellaneous**  
Public Speaking : Open Ended  
Research

## Coursework

### Graduate

Algorithms & Uncertainty  
Beyond Worst Case Analysis  
Combinatorial Algorithms  
Computational Geometry  
Deep Learning

### Undergraduate

Efficient Algorithms  
Computational Imaging  
Artificial Intelligence  
Computer Vision

## Awards & Misc.

Google Cloud Grant 2x  
NVIDIA Grant  
ICLR Travel Award  
CS:GO SMFC (2017)

## Reviewing

### 2022

UIST (User Interface Software  
and Technology)  
EMNLP (Empirical Methods in  
Natural Language Processing)

**TA @ UC-Berkeley, Columbia University**      **Fall 2017 : Spring 2020**  
Graduate Student Instructor      **6 Semesters**

- Human Computer Interaction, Machine Learning for Functional Genomics

**Rao Group @ UC - Berkeley**      **Fall 2015 : Spring 2018**  
Research Assistant      **Machine Learning & Biology**

- Investigation on gene feature identification and dimensionality reduction
- **Master's Thesis: Adaptive Memory Networks**

## Publications

**Daniel Li\***, 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 Submission*.

**Daniel Li**, Junpei Zhou, Music Li, Lydia Chilton. *Towards Practical Translation Quality Estimation in Bilingual Models*. Under Review.

**Daniel Li\***, Thomas Chen\*, Albert Tung, Lydia Chilton. *Hierarchical Summarization for Longform Spoken Dialog*. **UIST 2021**

Jennifer Chen, Faisal Ladhak, **Daniel Li** and Noémie Elhadad. *Incorporating Human Explanations for Robust Hate Speech Detection*. **ACL-IJCNLP 2021 Workshop**

**Daniel Li**, Te I, Naveen Ari, Colin Cherry, Dirk Padfield. *Sentence Boundary Augmentation for Neural Machine Translation Robustness*. **ICASSP 2021**

**Daniel Li\***, Jenny Chen\*, ... *Counterfactual Hypothesis Testing of Tumor Micro-environment Through Semantic Image Synthesis*. **BioArXiv**

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**.

**Daniel Li**, Asim Kadav. *Adaptive Memory Networks*. **ICLR 2018 Workshop Track**

## Patents

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