Daniel Li

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write2daniel.li[at]gmail.com

Education

United States Army
Officer Commission *Spring 2023*
Basic Combat Training *Fall 2022*

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 : HTML

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

Design & UI & UX
Figma : Prototyping

Mathematics & Statistics
Linear Algebra : Probability :
Bayesian Inference

Current Positions

Unnamed Capital Group[1]　　　　　　March 2017 : **Present**
Co-Founder (total team of 2)　　　　　　　　　　　Trading
- **Mid 7 figure USD** accounts, **550% ROI** since inception
- Various strategies, and markets; sectors: equities, commodities, digital assets

Dekrypt.Capital　　　　　　　　　February 2018 : **Present**
Limited Partner　　　　　　　　　　　　Venture Capital
- Blockchain and privacy-preserving focused firm, **mid 8 figure USD** AUM
- Co-investors: a16z, Coinbase Ventures, Arrington XRP, 3 Arrows Capital

United States Army (Active Duty)　　　October 2022 : **Present**
Officer Candidate (09S)　　　　　　　　　Military Service
- *Intended* MOS (11A): Infantry Officer
- BCT @ Fort Leonard Wood, OCS @ Fort Benning
- *Voluntary and patriotic duty to serve*

Industry Experience

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

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

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
- Focused on abstractive summarization for speech applications.
- **Doctoral Thesis**: *Enabling Structured Navigation of Longform Spoken Dialog with Automatic Summarization*

Coursework

Graduate
Algorithms & Uncertainty
Beyond Worse Case Analysis
Combinatorial Algorithms
Computational Geometry
Deep Learning

Undergraduate
Efficient Algorithms
Computational Imaging
Artificial Intelligence
Computer Vision

Awards & Misc.

Google Cloud Grant
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**
  o   Human Computer Interaction, Machine Learning for Functional Genomics

Rao Group @ UC - Berkeley   Fall 2015 : **Spring 2018**
Research Assistant   **Machine Learning & Biology**
  o   Investigation on gene feature identification and dimensionality reduction
  o   **Master's Thesis**: *Adaptive Memory Networks*

Publications

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. *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.