Daniel Li

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[redacted]

Education

Columbia University
Area in Computer Science
Ph.D   Fall 2018 - Fall 2022*
M.Phil Fall 2018 - Spring 2021
University of California, Berkeley
Area in Electrical Engineering
        Computer Science
M.Sc Fall 2017 - Spring 2018
B.Sc Fall 2014 - Spring 2017

Skills

Programming
Python : Java : R : LaTeX : HTML
Frameworks & Libraries
PyTorch : Tensorflow : NumPy
Mathematics & Statistics
Statistics : Algebra : Topology
Design & UI & UX
Figma : Prototyping

Coursework

Graduate Level
Algorithms & Uncertainty
Beyond Worse Case Analysis
Combinatorial Algorithms
Computational Geometry
Deep Learning
Statistical Inference
Biostatistics

Awards & Misc.

Google Cloud Grant
NVIDIA Grant
ICLR Travel Award
Dean's Honors
CS:GO SMFC (2017)

Industry Experience

Unnamed Group   Fall 2017 : **Present**
Co-Founder (total team size of 2)   Securities Trading
  ○   Accounts (equities, options) of **$2.0M USD, 350% ROI** since inception

Google Research   Summer **2021**
Research Intern @ Cloud AI Translation   Natural Language Processing
  ○   *[Incoming Intern]* Automatic quality estimation for translation methods

Google Research   Summer **2020**
Research Intern @ Google Translate   Natural Language Processing
  ○   Increased 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 2020 : **Present**
PhD Researcher @ {Chilton}   Natural Language Processing
  ○   Dialogue summarization and applications

CompBio @ UC-Berkeley, Columbia University   Fall 2016 : **Fall 2020**
Research @ {Pe'er, Rao, Pachter}   Machine Learning & Biology
  ○   Vision, language modeling on biological data

TA @ UC-Berkeley, Columbia University   Fall 2017 : **Spring 2020**
Graduate Student Instructor   6 Semesters
  ○   Human Computer Interaction, Machine Learning for Functional Genomics

Publications

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

Daniel Li, Qiang Ma, Jenny Chen, Andrew Liu, … , Itsik Pe'er. *Counterfactual Hypothesis Testing of Tumor Microenvironment Through Semantic Image Synthesis.* **Under review at Nature Methods.**

Daniel Li, Asim Kadav. *Adaptive Memory Networks*, **NIPS 2017** Workshop: Deep Learning at Supercomputer Scale & **ICLR 2018** Workshop