

Education

Massachusetts Institute of Technology Ph.D. Artificial Intelligence: Thesis : Hierarchical models for computer vision. Advisor Tomaso Poggio	09/2000—05/2006
University at Buffalo BS Computer Science & BS Electrical Engineering with 4.0 undergraduate GPA National Science Foundation Fellow - 2000	09/1996—05/2000

Work Experience

Google	07/2012—current
Google CoreML (Staff Software Engineer)	09/2016—current
<ul style="list-style-type: none">- Lead: “CoreML Evaluation Infrastructure”<ul style="list-style-type: none">- Organized 14 reports including indirects, plus virtual teams in Google DeepMind and Cloud.- Goal: Standardize Google’s infrastructure for authoring, executing, and analyzing LLM quality evals- Results:<ul style="list-style-type: none">- Delivered common infrastructure abstractions supporting 100s of users across Gemini & Bard- Connected LLM evals to Google’s common CI/CD system. Zero customer cost- Skills: Large language models; Prompting; System design; multi-VP coordination & negotiation- Lead: “ML Train-time analytics infrastructure”<ul style="list-style-type: none">- Goal: Dev velocity and engineering satisfaction for ML model developers- Results:<ul style="list-style-type: none">- Elevated TensorBoard to top tool by satisfaction at Google, including TB.corp - 5k WAU at Google- 29M TensorBoard OSS downloads/month. Used at Meta, OpenAI, Twitter, HuggingFace- Skills: OSS/internal hybrid systems; ML workflow; Bureaucratic maneuvering- Lead: “TensorFlow Usability”<ul style="list-style-type: none">- Goal: Migrate Google from legacy `dist_belief` to new TensorFlow. Reduce TF dev costs- Results:<ul style="list-style-type: none">- Turned down dist_belief. Migrated 16 major teams from dist_belief to TensorFlow - including several billion-user products in other PAs such as Ads, YouTube and Cloud.- <i>“This is great work, complex because of the large number of users and careful work required to migrate real production ML systems to a new ML platform”</i> – Jeff Dean, Google Chief Scientist- Improved error messaging for TensorFlow devs.- Delivery of TensorFlow JS.- Skills: ML Frameworks; Usability studies; Python; Rust; TypeScript & Redux- Manager / Lead<ul style="list-style-type: none">- Results: managed a group of teams totaling 14 ICs. Managed sub-managers<ul style="list-style-type: none">- 95% favorable anonymous feedback- <i>“Stan has set up the structure of the team well. I like the process used to prioritize and assign projects. I also appreciate that Stan always attempts to get feedback on these processes in order to keep improving them. Both the process and the attempts for feedback show me that I have a real say in setting the direction of the product.”</i> – Anon feedback sample from report 2022- Managerial skills:<ul style="list-style-type: none">- Culture-building; Coaching; Performance mgmt (both high and low); Motivation; Mentoring- Leadership skills:<ul style="list-style-type: none">- Vision; Milestones; Project funding and assignment; Founding, structuring & focusing teams	
Google Play (Senior Software Engineer)	12/2013—09/2016

- Play Store Autocomplete
 - Goal: Simplify infrastructure merging **search** autocomplete across Apps, Books, Movies, Music
 - Results: Transformed a 60k QPS monolith into a modular search stack. Each sub-business now owns their own indexing, scoring, and presentation layer, allowing independent evolution.
 - Skills: **Search infrastructure**; Big Data; Multi-team negotiation
- Play Store Search & Discovery
 - Goal: Search and Discovery Revenue & Customer Engagement
 - Results:
 - Developed and launched “Similar Apps” and “Users also Installed”.
 - +3% overall store revenue(now a \$10B business)
 - Skills: Map-Reduce; Embedding; Collaborative filtering; C++

Google Flights (Software Engineer)

07/2012—12/2013

- QPX Hacker (Post ITA acquisition)
 - Results:
 - Migrated ITA from their SVN repo (100s of devs, 10+ yrs of code) to Google’s common P4 repo.
 - Wrote ‘[lisp koans](#)’
 - Skills: Lisp; Python; Revision control system details

DataXu

09/2009—07/2012

ML Dev

- Goal: Ads trading strategies powered by ML models
- Results: Developed a strong competitor using ML for real-time ad auctions - company sold to Roku
- Skills: ML; Big data; Ad tech

Bileschi Intelligence Services LLC

05/2006—09/2009

Small business owner / ML application developer

- Developed ML applications for start ups & media companies
 - MLB.com : Video tagging
 - DataXu : Ad tech
 - Vistacon Technologies : Vision tech for retail
 - ScanScout.com: Video tagging technology
 - Affine Systems: Deployable face detection technology
- Developed ML applications for defense companies
 - BAE Systems : Object detection from satellite imagery
 - Raytheon : Anomaly detection
 - Lockheed : Road network analysis
- Skills: ML; Customer relationship building; Financing & Sales

Selected Publications

* denotes first author, ** denotes single author

Books

Deep Learning with JavaScript: Neural networks in TensorFlow.js, [Manning Publishing](#), 2020

Selected Conference Papers [[Full list on Google Scholar](#)]

**Fully automatic calibration of lidar and video streams from a vehicle. [ICCV](#) 2009

**Object detection at multiple scales improves accuracy. [ICPR](#) 2008

Perception strategies in hierarchical vision systems. [CVPR](#) 2006

* A Unified System For Object Detection, Texture Recognition, and Context Analysis Based on the Standard Model Feature Set. [BMVC](#) 2005

Journal Articles

Robust object recognition with cortex-like mechanisms. [PAMI](#) [[Patent Awarded](#)] 2007

A critical view of context. [IJCV](#) 2006

Thesis

StreetScenes: Towards scene understanding in still images. [MIT Ph.D. Thesis](#)

2006

Open Source

TensorBoard (6.7k★) [[60 commits](#)]

2019—current

TensorFlow.js (18.1k★) [[40 commits](#)]

2018—2019

Lisp Koans (3.1k★) [[21 commits](#)] [[foundation](#)]

2013