

## Education

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

## Work Experience

<b>Google</b>	07/2012—current
<b>Google DeepMind (Staff Software Engineer)</b>	01/2025—current
<ul style="list-style-type: none"> <li>Lead: “Gemini Evaluation : Analysis Infrastructure” <ul style="list-style-type: none"> <li>Managed a group of distributed engineers (MTV, NY, LON) developing tooling to support quality and debugging evaluation tooling for Pre-Training, Post-Training, Agentic and Research efforts in Gemini</li> <li>Results: <ul style="list-style-type: none"> <li>20x faster evaluations, Dedicated tooling for comparing agent versions – diving from top-level numbers down to individual prompts &amp; judgements</li> </ul> </li> <li>Skills: Managing Google-scale infrastructure while delivering products at research pace.</li> </ul> </li> </ul>	
<b>Google CoreML (Staff Software Engineer)</b>	09/2016—12/2024
<ul style="list-style-type: none"> <li>Lead: “CoreML Evaluation Infrastructure” <ul style="list-style-type: none"> <li>Organized 14 reports including indirects, plus virtual teams in Google DeepMind and Cloud.</li> <li>Goal: Standardize Google’s infrastructure for authoring, executing, and analyzing LLM quality evals</li> <li>Results: <ul style="list-style-type: none"> <li>Delivered common infrastructure abstractions supporting 100s of users across Gemini &amp; Bard</li> <li>Connected LLM evals to Google’s common CI/CD system. Zero customer cost</li> </ul> </li> <li>Skills: Large language models; Prompting; System design; multi-VP coordination &amp; negotiation</li> </ul> </li> <li>Lead: “ML Train-time analytics infrastructure” <ul style="list-style-type: none"> <li>Goal: Dev velocity and engineering satisfaction for ML model developers</li> <li>Results: <ul style="list-style-type: none"> <li>Elevated TensorBoard to top tool by satisfaction at Google, including TB.corp - 5k WAU at Google</li> <li>29M TensorBoard OSS downloads/month. Used at Meta, OpenAI, Twitter, HuggingFace</li> </ul> </li> <li>Skills: OSS/internal hybrid systems; ML workflow; Bureaucratic maneuvering</li> </ul> </li> <li>Lead: “TensorFlow Usability” <ul style="list-style-type: none"> <li>Goal: Migrate Google from legacy `dist_belief` to new TensorFlow. Reduce TF dev costs</li> <li>Results: <ul style="list-style-type: none"> <li>Turned down <a href="#">dist_belief</a>. Migrated 16 major teams from dist_belief to TensorFlow - including several billion-user products in other PAs such as Ads, YouTube and Cloud.</li> <li><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</li> <li>Improved error messaging for TensorFlow devs.</li> <li>Delivery of TensorFlow JS.</li> </ul> </li> <li>Skills: ML Frameworks; Usability studies; Python; Rust; TypeScript &amp; Redux</li> </ul> </li> <li>Manager / Lead <ul style="list-style-type: none"> <li>Results: managed a group of teams totaling 14 ICs. Managed sub-managers <ul style="list-style-type: none"> <li>95% favorable anonymous feedback</li> <li><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</i></li> </ul> </li> </ul> </li> </ul>	

*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.” – Anon feedback sample from report 2022*

- Managerial skills:
  - Culture-building; Coaching; Performance mgmt (both high and low); Motivation; Mentoring
- Leadership skills:
  - 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