Stephanie **Moyerman**

Scientist · Software Engineer · Team Leader · Problem Solver

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Experience

Airbnb - Director of AI and Machine Learning
Phoenix, Az

RELEVANCE AND PERSONALIZATION — *April 2025 - Present*

- Lead search and personalization across all product lines – stays, services, and experiences – a $70B portfolio.
- Drive company-wide AI vision, strategy, engineering foundations, and governance as 1 of 6 ML Council members.
- Lead for company-wide AI/ML community growth and internal/external communications.

TRUST AND SAFETY — *May 2023 - April 2025*

- Lead AI/ML modeling to ensure protections across >400M nights and bookings and >1B pieces of content yearly.
- Lead multi-modal large model development for automating verifications, screenings, and LLM guardrails.

Meta - Director of Data Science
Phoenix, Az

INSTAGRAM WELL-BEING — *June 2022 - May 2023*

- Led data science for 1 of 8 Instagram orgs, ensuring integrity and belonging for over a billion users worldwide.
- Owned company top-line performance metrics for integrity, trust, belonging, and equity.
- Led teen safety and teen specific content and protections strategy for Instagram.

Senior Director and Distinguished Principal - Risk, Trust, and Payments
Phoenix, Az

EBAY, INC. — *May 2021 - June 2022*

- Managed an org of 50 contributors that owned the science of determining risk for buyers, sellers, transactions, and account integrity.
- Developed NLP and CV capabilities to detect trust-eroding content on eBay's platform: prohibited and counterfeit items, scam, spam, etc.
- Aligned and coached an org of 1300 to develop ML intelligence capabilities for payment processing, realizing $10Ms gained in operational efficiency and conversion from positive payment experiences.

Senior Applied Science Manager - Customer Trust and Partner Support
Tempe, Az

AMAZON.COM, INC. — *Oct 2017 - May 2021*

- Managed a science and engineering organization of 40 contributors, achieving top 4% in manager satisfaction within Amazon.
- Developed machine learning for fraud and abuse prevention, detecting over 3M abusive accounts and $5B in fraud transactions in 2020.
- Led strategic vision for 4 organizations and delivered machine learning solutions to over 80 internal Amazon clients supporting $10Ms in gains.

Principal Engineer and Director - Pathfinding and Innovation
Chandler, Az

INTEL CORPORATION — *Nov 2013 - Oct 2017*

- Drove internal strategy and external partnerships, managing a $4.4M technology portfolio with a team of 16 contributors.
- Developed deep learning and image processing solutions in hardware and software for next generation virtual reality and volumetric video.
- Managed machine learning implementation for Intel Sports, including big data analytics, device processing, and algorithm development.
- Technical lead and algorithms developer for 4 CEO global keynotes and 2 live television integrations with ESPN's X-Games.

Publications and Patents

Patents and Invention Disclosures
US Patents

LEAD AND CONTRIBUTING AUTHOR — *June 2008 - Present*

- 14 granted and 12 pending patent applications since 2013 spanning topics of ML algorithms, hardware, software, and device architecture
- For a complete listing see *Google Scholar*

Peer Reviewed Publications
Ap.J., PRL, etc.

LEAD AND CONTRIBUTING AUTHOR — *Oct. 2005 - Oct. 2014*

- Authored over 36 peer-reviewed publications with over 1800 citations and an h-index of 17
- For complete listing, see *Google Scholar*

Getting Started with Intel Edison
O'Reilly and Maker Media

AUTHOR — *Oct 2015*

- Authored Maker Media's introduction to Intel Edison book

Education

University of California, San Diego (UCSD)   *La Jolla, Ca*

M.S. & PH.D. - PHYSICS: EXPERIMENTAL COSMOLOGY   *Sept. 2007 - June 2013*

- Additional M.S. Degree for Program in Computational Science, Math, and Engineering

Harvey Mudd College   *Claremont, California*

DUAL B.S. - MATHEMATICS AND PHYSICS   *Sept. 2002 - May 2006*

- Distinction, Departmental Honors, and 3 Best In Year Academic Science Prizes

Skills

MANAGEMENT

Team Building, Mentorship, Innovation, Agile development, Operational Excellence, Decision Quality, Portfolio Management, Budget Planning

AI AND MACHINE LEARNING

AI: Large (>1B) Multi-Modal Models and GenAI: LLMs, VLMs, Fine-Tuning, Distillation, Quantization
Machine Learning: Supervised & Unsupervised Learning, DNNs, Graph Based Models, Sequential Modeling, NLP, CV, Recommender Systems

PROGRAMMING

Python, R, Java, Spark, SQL, Matlab, Octave, C, Fortran, VBA, HTML, CSS, XML, JavaScript, Version Control Tools

Awards & Honors

2017	**Clio Award**, Innovation in media for live statistics integration into the Winter X-Games	*Prometheus Global*
2016	**New Technology Group Award**, For the development of bio-sensing algorithms for head worn devices	*Intel*
2016	**New Technology Group Award**, For leading Intel's Summer X-Games Technical Exhibition	*Intel*
2016	**New Technology Group Award**, For leading Intel's Winter X-Games Technical Exhibition	*Intel*
2016	**New Technology Group Award**, Leading demos for Intel's CEO in the Consumer Electronics Show Keynote	*Intel*
2015	**Departmental Recognition Award**, Design and demonstration of learning algorithms in action sports	*Intel*
2014	**Departmental Recognition Award**, Pioneering the Intel Innovation Symposium	*Intel*
2013	**Departmental Recognition Award**, Developing large scale machine learning algorithms for yield analysis	*Intel*
2013	**Einstein Postdoctoral Fellowship**, Awarded annually to 12 Ph.D.s in Astrophysics (Declined)	*Worldwide*
2012	**AAUW Dissertation Fellowship**, Awarded annually to 50 female doctoral candidates in all fields	*Nationwide*
2008	**NSF Graduate Fellowship**, Awarded annually to outstanding graduate students in the sciences	*Nationwide*
2007	**UCSD First Year Graduate Fellowship**, Awarded to students showing exceptional promise in Physics	*Nationwide*
2007	**Bell Labs Graduate Fellowship**, Awarded annually to 12 women and minorities in the sciences	*Nationwide*
2006	**American Physical Society Apker Award**, Best Undergraduate Research in Physics	*Nationwide*
2006	**Vanderbilt Prize Runner Up**, Best Undergraduate Research in Physics and Astronomy	*Nationwide*
2006	**Thomas J. Watson Fellowship**, Awarded to 25 students annually for independent study and research	*Nationwide*

Interests

SPORTS

Judo (former nationally ranked competitor), jiu jitsu, running, rugby, wakeboarding, surfing, snowboarding, lifting, swimming

ART AND MAKING

Amateur glassblowing, glass fusing, woodworking, metal sculpting, furniture design and creation, electronics design and creation

TEACHING

Adjunct professor of physics at ASU, Instructor at Manhattan Prep (2010-2021), Founder at eekatta test prep

START UPS

Rapid Rehydration (President and Lead Programmer), boardformula.com (First Hired Programmer)

OTHER

Private Pilot, Avid Traveler, Art Collector, Empathetic Listener, Professional Pup Mom