

MO TIWARI
motiwari@stanford.edu
(415) 234 - 3187

U. S. Citizen

Stanford, CA

EDUCATION:

Stanford University, Stanford, CA 2017 – Present
Ph.D. in Computer Science
Advisor: Sebastian Thrun
Research Focus: Artificial Intelligence and Machine Learning

M.S. in Computer Science (completed during Ph.D. program) **GPA: 4.2** June 2019

California Institute of Technology, Pasadena, CA Sept 2010 – June 2013
Cumulative GPA: 4.0+ – Top 5% of Graduating Class

B.S. in Physics with Honors **GPA: 4.0+** June 2013
B.S. in Mathematics with Honors **GPA: 4.0+** June 2013

Columbia University – Columbia College, New York, NY **GPA: 4.0+** 2009 – 2010

EXPERIENCE:

SOFTWARE ENGINEER, TECHNICAL LEAD – FACEBOOK, INC. 2015 – 2017

- Technical lead of the 4-person team building ThreatExchange (fb.me/TX), Facebook's platform for sharing cybersecurity information
- Led product and feature development through 5 major releases that grew the number of enterprise customers from 92 to 500+
- Managed 3 interns who received and accepted fulltime offers

SECURITY RESEARCH SCIENTIST – EXPANSE, INC. 2014 – 2015
Note: Expanse, Inc. was previously known as Qadium, Inc.

- Performed the first systematic, continuous, and Internet-scale capture and analysis of device data and security vulnerabilities
- Built backend and frontend infrastructure to help analysts understand terabytes of prostitution advertisements and uncover human trafficking
- Work indirectly led to dozens of arrests of traffickers and hundreds of victims saved

RESEARCHER – DRW TRADING GROUP Summer 2013

- Supported the highest-performing traders with quantitative research
- Created valuation models for various financial instruments, such as interest rate swaps and swaptions

RESEARCHER - Undergraduate Research Fellowship

John Preskill Group at California Institute of Technology

2011 – 2012

- Proved that a certain class of quantum systems would never function as a form of quantum storage, eliminating their viability in a quantum computer
- Advised by Prof. John Preskill, Dr. Spiros Michalakis, Dr. Jeongwan Haah

RESEARCHER - I. I. Rabi Fellowship for Summer Research

LHC (Large Hadron Collider), Geneva, Switzerland

Summer 2010

- Analyzed some of the first data ever from the Compact Muon Solenoid (CMS) experiment at the LHC in Geneva, Switzerland, where the Higgs Boson was later discovered
- Found and corrected experimental defects, by analyzing Missing Transverse Energy, to calibrate the experimental setups
- Later received admission to the Ph.D. program in Physics at MIT to continue research on this experiment

RESEARCHER

Yorktown High School, Yorktown Heights, NY

2007 – 2009

- Developed an assistive aid to help patients with physical disabilities complete exercises
- Patients' exercise completion rate rose 80%, a statistically significant amount, and shortened recovery time by 34%
- Won 3rd place in category internationally at Intel ISEF 2009

PUBLICATIONS:

1. Estimating Global Patterns in Learning Quality Using Google Search Trends

Serhat Arslan, Mo Tiwari, Christopher Piech. ACM Learning @ Scale 2020.

ACADEMIC HONORS

- Stanford Interdisciplinary Graduate Fellowship (SIGF) 2020 – 2023
 - Full funding for the Ph.D. for 3 years (~\$300,000 over 3 years)
 - 1 of 33 awardees in year, 1 in 295 since award inception in 2008
- Oak Ridge Institute for Science and Education (ORISE) Fellowship 2019
- UnifyID Fellow (Declined) 2018
- Pear VC Fellow 2017 – Present
- NSF Graduate Research Fellowship Program Honorable Mention 2013
- Caltech SURF - Summer Undergraduate Research Fellowship 2011 – 2012
- IBM T.J. Watson Memorial Scholarship 2009 – 2012
- Caltech - San Pietro Travel Prize Recipient 2011
- I. I. Rabi Fellow at Columbia University 2009 – 2010
- Intel International Science and Engineering Fair (ISEF) - Third place 2009