

**MO TIWARI**  
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(415) 234 - 3187

**U. S. Citizen**

Stanford, CA

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## **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

*Relevant Coursework:*

CS 221 – Artificial Intelligence

CS 229 – Machine Learning

CS 228 – Probabilistic Graphical Models

CS 168 – The Modern Algorithmic Toolbox

**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](https://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**

- 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