

# Salman Khan

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**Education** **PhD Economics** **2015-Current**  
University of Illinois, Chicago.  
**Major Field:** *Development Economics, Labor Economics, Applied Microeconomics*

**Dissertation Work:** *I use administrative data on the universe of 40,000 public schools in Punjab to investigate the short and long(er) term effects of improved access to schooling for rural females in a setting with significant gender disparity (Punjab, Pakistan). For the schooling measure, I use data on more than 10 million individuals from multiple households surveys as well as the Population Census. Since schools are likely to be located endogenously, I employ a Difference-in-Differences approach that exploits cross-cohort variation in exposure to new school construction as well as regional variation in the intensity of new school construction in order to study the effects in a reduced form causal setting. My results show that an additional primary girls' school per 1000 children of school-going age led to an increase in primary school completion rate (4-5 pp) and years of schooling (0.48 years) for the relevant rural female cohorts. I do not find corresponding improvements to the female labor or marriage market outcomes. Gender inequality and restrictive social norms in this setting may limit the effects of increased educational attainment on these margins. My findings therefore provide valuable insights to policy makers in developing countries by highlighting the importance of ensuring improvements to male social norms and education in addition to the need for investing in higher levels of education for girls.*

**Master of Science in Economics and Finance** **2011-2013**  
Center for Monetary and Financial Studies (CEMFI), Spain

**Bachelor of Science (Honors) in Economics** **2007-2011**  
Lahore University of Management Sciences (LUMS), Pakistan  
Graduated with *Summa cum laude*

**Professional Experience** **University of Illinois, Chicago** **Aug 2018-Current**  
*Graduate Instructor for Econometric class (ECON300)*

- Taught the underlying theory behind Ordinary Least Square Method (OLS) and main reduced form causal analysis methods such as Difference in Differences (DD), Instrumental Variables (IV), Regression Discontinuity (RD), Randomized Control Trials (RCTs), and Propensity Score Matching (PSM) to over 200 students.
- Designed and conducted Stata sessions in order to familiarize students with running different types of analysis using Stata (DD, RD, IV, PSM, RCT, OLS).

**UN Women Pakistan** **Feb 2020-Current**  
*Statistical Expert for study on Economic Costs of Child Marriage in Pakistan*

- Collaborated with the research team to design survey instruments training manuals for a nationally representative survey to measure the economic costs of child marriage for Pakistan.
- Generated sampling frame based on stratified two stage cluster sampling technique to select survey sample, calculated sampling weights

- Cleaned, coded & compiled the data from over 2500 females using a phone-based survey.
- Used Instrumental Variables approach to measure economic costs of child marriage related to loss of educational attainment, increased fertility, higher child mortality, reduced labor force participation, increased gender based violence.
- Contributed to writing the report summarizing the findings of the study for Punjab and Khyber Pakhtunkhwa provinces in Pakistan.

**Urban Labs at University of Chicago**  
*Data Analyst for Crime & Education Lab*

**May 2018 -Aug 2018**

- Conducted tests such as the covariate balance test in order to verify if randomization was indeed successful in a Randomized Control Trial (RCT).
- Evaluated the success of the RCT by comparing outcomes for treatment and control groups across a set of outcomes. Constructed indexes of outcomes in order to account for multiple hypothesis testing.
- Worked with data on the universe of all juvenile offender records (over 100,000 observations) in Chicago in the last decade from the Sheriff's office in order to analyze the impact of youth incarceration on future outcomes for young offenders. Analysis used an Instrumental Variable approach relying on random assignment of offenders to judges with varying level of incarceration rates.
- Used data on risk propensity score for each incarcerated offender from random forest machine learning algorithm to construct a counter-factual risk distribution for juveniles who ended up getting sentenced to prison.

**Economics Dept at University of Illinois, Chicago**  
*Research Assistant for Prof. Feigenberg & Prof. Lubotsky*

**Aug 2016-May 2018**

- Collected and cleaned data of over 52 million observations from Mexican Census and other data sources (American Community Survey (ACS), Mexican Labor Force Survey (ENOE), and Mexican Border Survey (ENOE).
- Conducted analysis in Stata using an Instrumental Variable approach to investigate the impact of reduced immigration to the US on the labor market decisions of potential immigrants to the US as well as the human capital investments of younger cohorts of Mexican workers.

**Institute of Development & Economic Alternatives**  
*Research Associate*

**Dec 2013- Jun 2015**

- Co-investigator on a *World Bank study on regional competitiveness study on auto sector trade between Pakistan & India.*
  - Conducted interviews with key stakeholders and quantitative analysis using UN Comtrade & World Integrated Trade Solution (WITS) data in order to develop a better understanding of the effect of non-tariff barriers on the trade volume between India and Pakistan.
- Public Private Partnership (PPP) Project
  - Used the nearest neighbor Propensity Score Matching algorithm to evaluate the impact of public and private sector partnerships in the education sector in Punjab & Sindh in Pakistan.

**University of Massachusetts, Amherst** **Summer 2014**  
*Mentor: Donahue Institute*

- Organized a 5 week teacher training program for 25 public secondary school teachers selected from all parts of Pakistan at University of Massachusetts, Amherst.

**Acasus Services Dubai, UAE** **Jan - Mar 2014**  
*Data Consultant*

- Conducted Instrumental Variable analysis to evaluate the performance of the lady health worker (LHW) program on health care coverage of over 50,000 individuals across different clusters over time in Punjab, Pakistan.

**Raabta Consultants, Pakistan** **Sept 2013 - Nov 2013**  
*Evaluation Analyst*

- Developed specific outcome indicators for monitoring & evaluating the Gomal II project; wrote the donor report on “Women economic opportunities in Khyber & Bajaur agencies”.

**Banco Santander, Spain** **Jul - Sept 2012**  
*Research Analyst for Corporate Finance & Public Policy department*

- Analyzed how the response of different countries in Europe to the financial crisis differed on the basis of their financial systems; wrote a report summarizing the key findings using financial system indicators and typology.

## **Awards and Honors**

**Houston H. Stokes Award** **2015-16**  
Acknowledgement of academic excellence as a PhD student.

**CEMFI Fellowship** **2011-13**  
First Pakistani to be granted fellowship for entire duration of studies.

**Dean’s Honor List** **2007-11**  
Maintained my status on Dean’s list for the course of my studies at LUMS.

**Fulbright Exchange Scholar** at UMass, Amherst **Summer 2010**  
Selected to represent Pakistan at a workshop on comparative public policy.

## **Skills**

### **Computer Skills:**

- Proficient: Stata, LaTeX, Microsoft Office.
- Basic: Python, Matlab, SAS, GitHub.

**Language Skills:** Urdu (Native), English (Proficient), Spanish (Basic).

## **References**

- **Prof. Darren Lubotsky** [lubotsky@uic.edu](mailto:lubotsky@uic.edu)  
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University of Illinois at Chicago  
312-996-6240
- **Prof. Benjamin Feigenberg** [bfeigenb@uic.edu](mailto:bfeigenb@uic.edu)  
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