

Salman Khan

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

Dissertation Work: *I use administrative data on the universe of 55,000 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 23 million individuals from multiple households surveys as well as Population Census. Since schools are likely to be located endogenously, I employ a Difference-in-Difference 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/middle school per 1000 kids of school-going age led to an increase in primary school completion rate (5 pp) and years of schooling (0.44 years) for the relevant rural female cohorts. I also find evidence of long(er) term effects on marriage market, fertility decisions, and inter-generational human capital investments implying that benefits of improving access to education for girls extend beyond schooling.*

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 -May 2019**
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 100 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).

Urban Labs at University of Chicago **May 2018 -Aug 2018**
Data Analyst for Crime & Education Lab

- 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 **Aug 2016-May 2018**
Research Assistant for Prof. Feigenberg & Prof. Lubotksy

- 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 **Dec 2013- Jun 2015**
Research Associate

- Co-investigator on a *World Bank study on regional competitiveness study on auto sector trade between Pakistan & India.*
 - Conducted interviews with key stakeholders in both India and Pakistan to develop a better understanding of impediments to trade between the two countries.
 - Conducted quantitative analysis using UN Comtrade & World Integrated Trade Solution (WITS) data in order to evaluate the effect of non-tariff barriers on the trade volume between the two countries.
- Moderator United Nation Human Development Report for Pakistan.
 - Led Focus Group Discussions throughout Pakistan on the hopes and aspirations of the youth regarding the future of Pakistan.
- Public Private Partnership (PPP) Project
 - Conducted quantitative analysis to evaluate the impact of public and private sector partnerships in the education sector in Punjab & Sindh in Pakistan.
 - Used the nearest neighbor Propensity Score Matching algorithm to set up a valid counter-factual group for public schools that got adopted by private partners.

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
Evaluation Analyst

Sept 2013 - Nov 2013

- Developed specific outcome indicators for monitoring & evaluating the Gomal II project in helping the internally displaced people in Khyber & Bajaur agencies.
- Wrote a 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 the different financial systems prevalent in Europe in the aftermath of the financial crisis using financial system indicators and typology.
- Wrote a report discussing how the response of various countries differed on the basis of the financial systems in place.

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**

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University of Illinois at Chicago

Research Associate, *National Bureau of Economic Research*

- **Prof. Benjamin Feigenberg**

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- **Prof. Faisal Bari**

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Associate Professor of Economics

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Lahore University of Management Sciences

Director and Senior Research Fellow, *IDEAS, Pakistan*.