SABA RANJBAR

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EDUCATION

2017– 2023 (Exp.) **Ph.D. Candidate,** Economics, Concordia University, Montreal, QC

Thesis: *Three Essays on the Economics of Education and Human Capital*
Supervisor: Prof. Jorgen Hansen
Job Market Paper:

- Estimating the Technology of Youth Cognitive and Noncognitive Skill Formation

Working papers:

- Family Income and Schooling Relationship in the US and its Evolution
- Effect of Participation in After-School Activities and Working While in School on High School Performance in the US

2013 - 2016 **Master of Arts,** Economics, Shahid Beheshti University, Tehran, Iran

Supervisor: Prof. Abbas Arabmazar

Thesis:

- Effect of Keshavarzi Bank Credit on the agricultural sector's value-added and employment.

2006 - 2008 **Master of Science,** Electrical Engineering, Illinois Institute of Technology, Chicago, Illinois, USA

1998 - 2004 **Bachelor of Science,** Electrical Engineering, Sharif University of Technology, Tehran, Iran

FIELDS OF SPECIALIZATION

Labor Economics, Economics of Education, Applied Econometrics

CONFERENCES

2022 17th CIREQ Ph.D. Students' Conference, Montreal, Canada

2023 18th CIREQ Ph.D. Students' Conference, Montreal, Canada

2023 57th Annual Conference of the Canadian Economics Association, Winnipeg, Canada

PUBLICATIONS

2018 S. Bahrami, M. Toulabi, S. Ranjbar, M. Moeini-Aghtaie and A. M. Ranjbar, "A Decentralized Energy Management Framework for Energy Hubs in Dynamic Pricing Markets," in *IEEE Transactions on Smart Grid*, vol. 9, no. 6, pp. 6780-6792, Nov. 2018, doi: 10.1109/TSG.2017.2723023.

ACADEMIC EXPERIENCE

2023 Lecturer, Teach Canadian Economic Policy and Institutions to a class of 60 students, Concordia University, Montreal, Quebec, Canada

2021 Lecturer, Taught Intermediate Microeconomics Theory I to a class of 45 undergraduate students, Concordia University, Montreal, Quebec, Canada

2017 – Present Have been a Teaching Assistant for more than 10 graduate and undergraduate courses including Industrial organizations, Econometrics, Labor Economics, and Economics of Education, Concordia University, Montreal, Quebec, Canada

2007 – 2008 Research Assistant, Electric Drive Vehicle Lab, Illinois Institute of Technology, Chicago, Illinois, USA

2006 – 2007 Research Assistant, VLSI Lab, Illinois Institute of Technology, Chicago, Illinois, USA

HONORS AND AWARDS

- **Graduate Fellowship**, Faculty of Arts and Sciences, Concordia University (2017)
- **International Tuition Remission Award**, Economic Department (2017)
- **Best Paper Award**, International Power System Conference (IPC) (Nov. 2013)

WORK EXPERIENCE

2013 – 2014 **Electrical Engineer,** Niroo Research Institute (NRI)

- Analyzed smart grid roadmaps written by more than 10 countries and studied methodologies to write a strategic roadmap for Iran's national smart grid.
- Estimated the costs and benefits of an AMI (Advanced Metering Infrastructure) system for Greater Tehran Electrical Distribution Company. Gathered information from sources on prices, expenses, revenues, and profits and interviewed more than 5 experts in management levels.

2009– 2010 **Electrical Engineer,** Monenco Iran Consulting Engineers

- Supervised the implementation of Iran's national AMI system.

- Reviewed the international standards in this field.
- Chose 4 smart meters in compliance with the international standards.
- Studied the implementation of similar projects in 7 OECD countries and made a timeline.
- Administered the implementation of 3 pilot projects with the chosen smart meters in different cities.

- Drafted the National Smart Metering Program in Iran
  - Coordinated 3 months of brainstorming sessions with experts to set achievable goals for implementing the system.
  - Finalized the technical requirements of the system based on international standards.

2004 – 2005 **Electrical Engineer,** Niroo Research Institute (NRI)

- Wrote around 10,000 lines of code for the user interface of a fault detector (A device used to diagnose power transmission line faults) using C++

SKILLS

Programming Languages: C++, Python, Fortran, R
Economic Software: STATA, MATLAB, EViews, Microfit
Other Software: Word, Excel, PowerPoint, Latex
Dataset Experience: NELS88, ELS02, HSLS09, NLSY79/97, Labor Force Survey (LFS)

LANGUAGE SKILLS

English (Fluent), French (Intermediate), Farsi (Native)