

# SABA RANJBAR

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## ECONOMIST & RESEARCH ANALYST

Highly skilled in data analysis, data science and statistical techniques with a strong background in research and programming demonstrated through success in completing multiple projects with clear interpretation and explanation of the data. Excel in conducting research & analysis tailored to stakeholder needs, employing creativity and optimal problem-solving strategies. Highly adept in program and project management, leveraging critical thinking and a detail-oriented approach. Strong communication, collaboration, and presentation skills at all levels with a cooperative and supportive approach to mentoring and working with teams and management. Known for thoroughness, efficiency, multitasking ability, and resourcefulness in deriving solutions and actionable recommendations to support decision-making within tight deadlines.

## CORE COMPETENCIES

Data Analysis | Data Science | Documentation & Reporting | Business Intelligence | Business Analysis  
Data Management | Program & Project Management | Research | Data Collection | Data Visualization |  
Predictive Analytics | Quantitative Analytics | Forecasting | Statistical Techniques | Machine Learning |  
Economic Modelling | Forecasting | Econometrician | Labour Economist

## TECHNICAL SKILLS

**Programming Languages:** C++, Python, R

**Economic Software:** STATA, MATLAB, EViews, Microfit

**Other Software:** MS Office, Latex, Power BI

**Dataset Experience:** NELS88, ELS02, HSLS09, NLSY79/97, Labour Force Survey (LFS)

## EDUCATION

**Ph.D., Economics**, Concordia University, Montreal, QC 2017– 2023

- 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 “

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

**Independent Student, Open studies**, Sharif University of Technology, Tehran, Iran 2012 – 2013

**Master of Science, Electrical Engineering**, Illinois Institute of Technology, Chicago, IL

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

## EXPERIENCE

Concordia University, Montreal, Quebec, Canada

2017 - 2023

### **Lecturer, 2023**

- Taught Canadian Economic Policy and Institutions to a class of 40 undergraduate students; Discussed current and ongoing issues in economic policy such as Climate Change and Decreasing Income Inequality in Canada as well as writing policy briefs.

### **Lecturer, 2021**

- Taught Intermediate Microeconomics Theory I to a class of 45 undergraduate students.

### **Teaching Assistant, 2017 – 2023**

- Solved and explained problems for students both online and in class for more than 10 graduate and undergraduate courses including Industrial Organizations, Econometrics, Labor Economics, and Economics of Education.
- Graded exams and assignments.
- Taught data and econometric analysis using R to several classes of undergraduate students.

Niroo Research Institute (NRI)

2013 - 2014

### **Electrical Engineer**

- Analyzed smart grid roadmaps and methodologies developed by more than 10 countries to create 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.

### **Volunteer Work**

2010 - 2013

- Organized a fundraiser for patients with kidney failure. Raised and paid for 12 patients, including 2 Afghan refugees' kidney transplant surgery and rehabilitation costs.
- Raised money to buy and donate a dialysis machine to Shahid Hasheminejad Hospital.
- Volunteered at Iran's foreign ministry's diplomatic club's charity organization.

Monenco Iran Consulting Engineers

2009 - 2010

### **Electrical Engineer**

- Supervised the implementation of Iran's national AMI system. Reviewed the international standards in this field selecting 4 smart meters that met compliance standards.
- Studied the implementation of similar projects in 7 OECD countries and developed a timeline.
- Successfully managed 3 pilot projects with the chosen smart meters in different cities.
- Developed National Smart Metering program plans coordinating 3 months of brainstorming sessions with experts to set achievable system implementation goals.
- Finalized the technical requirements of the system based on international standards.

Illinois Institute of Technology, Chicago, Illinois, USA

2006 - 2008

### **Research Assistant, Electric Drive Vehicle Lab, 2007 – 2008**

- Worked on the digital control of electric motors for Hybrid vehicles.

**Research Assistant**, VLSI Lab, 2006 – 2007

- Worked on the design of an electronic flip-flop.

**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)

**LANGUAGES**

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

**CONFERENCES**

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

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

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

**PUBLICATIONS**

S. Bahrami, M. Toulabi, S. Ranjbar, M. Moeini-Aghaie 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.