

**Afsaneh ROSHANGHALB**

Cell: (647) 991-1366

Email: [Afsane.Roshanghalb@gmail.com](mailto:Afsane.Roshanghalb@gmail.com)

Address: 64 Benton St, Kitchener, ON, Canada

## **Data Scientist/Health Care Scientific Researcher**

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### **HIGHLIGHTS OF QUALIFICATIONS**

- Over 3 years of experience in health management & economics research, and related statistical data processing.
  - 2 years of research and industrial experience in the field of health care data modeling and processing.
  - Specialist in statistical methods such as multi-level models, multinomial logit model, logistic regressions, spatial econometrics, non-parametric frontier analysis using SAS, R-Studio, SPSS, Stata, Microsoft Office.
  - Strong background and interest in predictive models, decision making and machine learning techniques.
  - Research experience in activities in regard to the duties, design, conduct, and manage research project.
  - More than 5 academic papers and presentation in health management/economics topics including data processing, modeling, and systematic reviews.
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### **PROFESSIONAL EXPERIENCES**

#### **1. Research collaborator/ visiting fellow [05/2018–Present]**

IHPME, Institute of Health Policy, Management and Evaluation,  
University of Toronto, Toronto, Canada.

- Conducting Deep qualitative interviews with key informants related to improving the outcome of care in Ontario healthcare
- Creating cluster analyses in NVivo

#### **2. Scientific Researcher/ Project Management [09/2017–Present]**

The H2020, EU Nestore Project Research Grant

Polytechnic University of Milan, Department of Management, Economics and Industrial Engineering. Via Lambruschini, 4/B, 20156 Milano MI, Milan (Italy)

- Performing in depth desk analyses for over 10 countries on e-couch, silver economy, and healthy ageing topics
- Arranging a European Survey paralleled in each pilot countries,
- Conducting the Product Ecosystem and business plan,
- Providing an in depth literature search for reporting product ecosystem,
- Overview of the possible model, variables, and sources of information,
- Collaborating with project partners and preparation of task reports,
- Writing monthly reports to be presented to the partners, managing skype meeting with the involving project participants.

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### **3. Scientific Researcher [12/2015–12/2016]**

Polytechnic University of Milan, Department of Management, Economics and Industrial Engineering.

Via Lambruschini, 4/B, 20156 Milano MI, 20133 Milano (Italy)

<http://www.head.polimi.it/>

- Acquired and analysed Large Scale administrative and hospital registry Data
- Developed multi-level logistic models, distance functions, DEA, SFA
- Developed predictive models for big pool of Heart Failure patents data
- Created Machine Learning algorithms for automatic Data Analysis
- Built a SAS Macro for classification and reporting of different types of data
- Conducting the literature search on the relevant topics,
- Performing data management using SAS statistics

### **4. Assistant Lecturer [02/2016–07/2017]**

Polytechnic University of Milan, Department of Management, Economics and Industrial Engineering. Via Lambruschini, 4/B, 20156 Milano MI, 20133 Milano (Italy)

<http://www.remaps.polimi.it/>

- Lecturing at Master of Science course on Health Care Management on efficiency analyses basics in healthcare: case of Data envelopment Analyses, administrative data and their use in healthcare for performance measurements", and tutoring teams on the final Project Works

### **5. HR Assistant & Administrative coordinator [10/2013–03/2014]**

WinWord Trading Company, Marzdaran Ave, Narvan St., Tehran, Iran.

<http://winworld.ir/>

- Coordinating administrative tasks and organizing CEO/Sales managers meetings
- Human Resources specialization to design and implementing HR strategies for each working groups, group performance assessments, redesigning selection and recruitment tools and processes
- Supporting the HR team with the recruitment & selection processes by: posting job ads; maintaining applicant inventory; pre-screening applications; scheduling interviews; conducting reference checks and coordinating travel for candidate site visits.
- Organizing and maintaining department records, preparation of training material, policy documents, internal forms, letters, department files and data in both electronic and hard copy formats.

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## **COMPUTER/PROGRAMMING SKILLS**

- Programming Languages and statistics: SAS, R, STATA, SPSS, Python

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### **EDUCATION**

Ph.D., Management Engineering, Politecnico di Milano, Milan, Italy <i>Hospital Effect Determinants and Stability Identification on Performance over Time using Real-World Data</i>	<i>GDP B+</i>	2019
M.Sc., Human Resource Management, Tarbiat Modares University, Tehran, Iran <i>How public managers reduce organizational productivity?</i>	<i>GPA 3.6/4</i>	2015
B.Sc., Economic Sciences, Kharazmi University, School of Economic Sciences, Tehran, Iran <i>Transportation Economics</i>	<i>GPA 3.2/4</i>	2012

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### **SELECTED PUBLICATIONS**

- **Afsaneh Roshanghalb\***, Emanuele Lettieri, Filippo Visintin, Davide Aloini, Lorella Cannavacciuolo, Simone Gitto, Paolo Malighetti. “Evidence-based Management for Decision Making in Health Care: A Systematic Literature Review”, *Management Decision*, September 2018.
  - **Afsaneh Roshanghalb\***, Cristina Mazzali, Emanuele Lettieri. “Do Management Practices Matter for Quality of Care? Evidence from Administrative Data about Heart Failure”. *BMC Health Services Research*, under review.
  - Cristina Mazzali, **Afsaneh Roshanghalb\***, Emanuele Lettieri. “Mortality and Readmissions for Heart Failure Patients: Insights on the Composite Outcome”. *BMC-Health Services Research*, July 2018, under review.
  - **Afsaneh Roshanghalb\***, Cristina Mazzali, Alex Bottle, Emanuele Lettieri, Anna Maria Paganoni. “Stability of hospital effect on performance: the case of best/worst performers”. *Health Care Management Review*, August 2018, under review.
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### **RESEARCH ITEMS: International Conferences**

- Conference proceedings: **Afsaneh Roshanghalb**, Cristina Mazzali, Emanuele Lettieri, and Anna Maria Paganoni. “Performance Management in Health Care: the case of Best/Worst Performers through Administrative Data”. *The Ninth EIASM Conference on Performance Measurement and Management Control, Nice, France, September 2017*
- Oral presentation: **Afsaneh Roshanghalb**, Cristina Mazzali, Emanuele Lettieri, and Anna Maria Paganoni. “The rise of Administrative Data in Healthcare: Can we use them to crystallize the ‘Hospital Effect’ on Performance and inform Improvement Strategies?” *The 24th EurOMA Conference in Heriot-Watt University, Edinburgh, Scotland, July 2017*
- Conference Proceedings: **Afsaneh Roshanghalb**, Cristina Mazzali, Emanuele Lettieri, and Anna Maria Paganoni. “Can Performance Monitoring Identify Any Effect of Hospital for

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Improvement/Worsening: Case of Heart Failure Patients”. *The Health Care Systems Engineering (HCSE) 3rd International Conference on Health Care Systems Engineering, Florence, Italy, May 2017*

- Oral presentation: **Afsaneh Roshanghalb**, Federica Segato, Emanuele Lettieri, and Cristina Masella “Big Data and Innovation in Health Care: Results from a Systematic Literature Review”. *The 17th International CINet Conference Innovation and tradition: combining the old and the new, Turin, Italy, 2016*
- Oral presentation: **Afsaneh Roshanghalb**, Federica Segato, Emanuele Lettieri, and Cristina Masella “Big Data in healthcare: results and future directions from a systematic literature review”. *IFKAD International Forum on Knowledge Asset Dynamics -11th edition Towards a New Architecture of Knowledge: Big Data, Culture and Creativity, Dresden, Germany, 2016*

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## **VOLUNTEER EXPERIENCES**

- Member of Italian Association of Management Engineering\_ AiIG (Associazione Italiana Ingegneria Gestionale) - 2015-2018. <http://www.ingegneriagestionale.it/>
- Member of European Institute for Advanced Studies in Management (EIASM) network, 2017. <https://www.eiasm.net/>
- Member of "Students' Syndicate" at TMU, Tarbiat Modares University, 2014.
- Library student assistant, Tarbiat Modarres University, Central Library, Information System section, Research and Development Faculty, 2013-2014. <http://www.modares.ac.ir/index.jsp?siteid=12#>

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## **EXPECTED SALARY**

I do believe that salary should be commensurate with qualifications and experience