

# Curriculum Vitae

## Mohammadreza Amiri

www.mohammadrezaamiri.com

### I. DATE CURRICULUM VITAE IS PREPARED: 2021-10-11

### II. BIBLIOGRAPHICAL INFORMATION

#### A. EDUCATION

##### 1. Degrees

- |             |   |
|-------------|---|
| 2012 – 2016 | <b>Ph.D., Health Economics</b> , <i>University of Malaya, Kuala Lumpur, Malaysia</i><br>Supervisor: Professor Dr. R. Rasiah |
| 2009 – 2011 | <b>M.Sc., Economics</b> , <i>University of Malaya, Kuala Lumpur, Malaysia</i><br>Supervisor: Professor Dr. I Jajri          |
| 2004 – 2008 | <b>B.A., Business Economics</b> , <i>Allameh Tabatabaei University, Tehran, Iran</i>  |

##### 2. Pedagogical Development

- |      |   |
|------|---|
| 2018 | University teaching and learning programme,<br><b>Taylor's University, Selangor, Malaysia</b> <ul style="list-style-type: none"><li>• Student support and development</li><li>• Teaching and educational development</li><li>• Guided e-learning</li><li>• Managing and appreciating learners' diversity</li><li>• Student transition and success</li></ul>   |
| 2016 | Foundations in Tertiary Teaching<br><b>UCSI University, Kuala Lumpur, Malaysia</b> <ul style="list-style-type: none"><li>• Instructional Technology in Education: Learning Management System (LMS)</li><li>• Effective Classroom Management</li><li>• Technology for Contemporary Teaching</li><li>• Supporting Multiple Intelligence Learning and Motivation</li><li>• An Outcome-based Approach to Curriculum Development</li><li>• Implementing Outcome-based Assessment of Student Learning</li></ul> |

##### 3. Research Trainings

- |      |  |
|------|--|
| 2015 | Conducting Qualitative Research Using NVIVO                    |
| 2015 | Data Collection Using REDCap                                   |
| 2014 | Power and Sample Size  |
| 2014 | Questionnaire Validation                                       |
| 2014 | Multivariate Data Analysis                                     |
| 2014 | Developing Protocol and Conducting Cochrane Systematic Reviews |
| 2014 | Statistical Analysis Using SPSS                                |
| 2013 | Complex Sample Designs and Analysis                            |

#### B. EMPLOYMENT HISTORY: RESEACH

##### 1. Research

- |                   |   |
|-------------------|---|
| 2021/06 - Current | Postdoctoral Research Fellow, KITE-Toronto Rehab Institute, UHN.<br>Toronto, ON, Canada |
|-------------------|---|

- Develop, manage, and maintain database for the longitudinal data from the Spinal Cord Injury Implementation, Evaluation, and Quality Care (SCI IEQC) Consortium
  - Conduct quantitative data analysis, create interactive visualization, and co-develop reports to the Ministry of Health
  - Estimate and predict case costing and cost analysis of the novel peripheral nerve transplant
  - Proactively address data collection and analytical issues from the Consortium members
- 2021/01 – 2021/05      Scientific Associate II, KITE-Toronto Rehab Institute, UHN. Toronto, ON, Canada
- Develop advanced spreadsheets for six domains and the national rehabilitation reporting system (NRS) data of quality improvement for the health care surveys and services the SCI-IEQC Consortium
- 2021/01 – 2021/02      Junior Data Science Specialist (Health Economics), Li Ka Shing Research Institute, St. Michael's Hospital, Toronto, ON, Canada
- Conducted network meta-analysis of falls prevention studies
  - Prepared course materials for 'Introduction to Health Economics'
  - Abstracted the economic data for the systematic review of economic evaluations of influenza vaccination ordered by PHAC
  - Guided colleagues on using efficient techniques and tools for economic evaluation data transformation
  - Developed data abstraction sheets, online data collection tools, and study screening (L1/L2) cheat sheets for the collection of the Knowledge Translation Sustainability project
- 2020/05 – 2020/12      Postdoctoral Research Fellow, KITE-Toronto Rehab Institute, UHN. Toronto, ON, Canada
- Developed advanced Excel spreadsheets for data collection related to National Rehabilitation System data as well as Sexual Health, Emotional Wellbeing, Walking, Wheeled Mobility, Tissue Integrity, and Urinary Tract Infection domains for the SCI IEQC Consortium
- 2020/03 – 2020/04      Health Economic Consultant, Broadstreet HEOR. Vancouver, BC, Canada
- Amended, validated, and reviewed a cost-utility model and preparing for one economic evaluation submission to Canadian Agency for Drugs and Technologies in Health (CADTH)
- 2019/03 – 2020/03      Admin Assistant III, Toronto Rehab Institute, UHN. Toronto, ON, Canada
- Provided expertise and methodological guidance in the conduct of systematic and scoping reviews in collaboration with Cochrane Rehabilitation (n = 5, see Publications)
  - Significantly contributed to the development of 7 grants (CIHR, CHRP, PSI, WCBM) in design (RCT, validation), sample size

- calculation, and statistical analysis plan
  - Provided assistance with internship interviews (n = 8), orientation, and training (n = 3) and updating CommonCV
- 2018/05 – 2018/10      Postdoctoral Research Fellow, Taylor's University. Kuala Lumpur, Malaysia
- Conducted one workshop on cost-effectiveness analysis in TreeAge
  - Helped in designing an RCT evaluating a novel vaccination combination in infants
  - Collaborated in the development of 2 original research & 1 international conference
- 2017/09 – 2018/04      Research Fellow, Management & Planning Organization. Tehran, Iran
- Analyzed health care data, interpreted, and reported the findings to the Minister of Economics and Finance (Dr. Farhad Dejpsand)
  - Contributed to development and planning of one national public health project
- 2012/06 – 2016/03      Graduate Research Assistant, University of Malaya. Kuala Lumpur, Malaysia
- Projects:
    - Prospective Urban Rural Epidemiology (PURE) study, coordinated with McMaster University, Canada
    - REDISCOVER: Cardiovascular risk factors and Social Economic Status: A Study of Malaysians
    - Malaysian Health and Adolescents Longitudinal Research Team study (MyHeART): Variation in Habitual Physical Activity and Eating Pattern of Adolescents During Exam Year
    - Participatory Action Research Through Negotiation and Empowerment of Residents (PARTNER)
    - Diseases Among Poverty: A Community-Based Participatory Action Research Project
    - Project assistant: UM-Harvard Translational Medicine Research Collaboration and Training Program
  - To collaborate in the data collection, database development and management, data analysis, and reporting
  - Published 5 peer-reviewed articles (see Publication)

## 2. Teaching

- 2021/10      Instructor, KITE Rehabilitation Institute, Toronto, Canada
- Teach 'Introduction to Meta-Analysis with R'
  - Provide hands-on R programming and real-world examples
- 2020/08 – 2020/10      Co-instructor, KITE Rehabilitation Institute, Toronto, Canada
- Co-instructed 'Introduction to Statistics in Health and Medical Sciences using R' with Dr. Mohammad Alavinia

- In eight sessions, theory and applied examples in R were covered

2016/04 – 2017/08

Lecturer, UCSI University. Kuala Lumpur, Malaysia

- Provided lectures, notes, tutorials, in-class discussions, on-line quizzes and forums related to the following subjects:
  - Applied Econometrics (Student Evaluation: 3.71/4.0)
  - Intermediate Macroeconomics (3.67/4.0)
  - Research Methods (3.92/4.0)
  - Tutor: Business Modelling with Spreadsheet (3.45/4.0)
  - Introduction to Statistics (3.52/4.0)

### C. MENTORSHIP

2019/08 – 2020/03

Mentor, Faculty of Kinesiology & Physical Education, University of Toronto. Toronto, ON, Canada

- Led 2 PhDs and 3 undergraduate students in the data abstraction of 99 reporting of RCT's
- Guided postgraduate (n = 1) in quantitative analysis and hypothesis testing and data visualization

#### D. SUPERVISION

2017

- The Impact of Housing Bubble and Burst on Employment in the United States from 1990 – 2016: Ha Q. A. and Sivaprakash M.

2017

- Impact of Macroeconomics Factors on Property Market in Malaysia: Choong M. S. and Lam M. T.

2017

- The Standard of Living of Malaysians: Chow W. F. and Ng C. K.

2017

- The Impact of Brexit on the United Kingdom Economy: Soh P. W. and Sin W. M.

2017

- An Analysis on the Influence of Peg Exchange Rate Policy on the Volatility of Balance of Payments in Malaysia from 1980 to 2016 - ARDL Bound Test: Saw Z. M. and Lau S. H.

## E. AWARDS

2016

Top Three Research Assistant at Faculty of Medicine, University of Malaya

2012 – 2014

Graduate Research Assistant Scheme (GRAS) Scholarship from University of Malaya (certificate, tuition fees)

2014

1<sup>st</sup> Poster Prize at International Conference of Public Health, Kuala Lumpur, Malaysia (certificate)

## F. TECHNICAL SKILLS

## Statistical Modelling and Machine

- R
- Weka

Learning	<ul style="list-style-type: none"> <li>• Stata</li> <li>• SPSS</li> </ul>
Economic Evaluation	<ul style="list-style-type: none"> <li>• R</li> <li>• TreeAge</li> <li>• Microsoft Excel</li> </ul>
Evidence Synthesis	<ul style="list-style-type: none"> <li>• R</li> <li>• Microsoft Excel (BUGSXL)</li> <li>• RevMan / Covidence</li> <li>• WinBUGS</li> </ul>
Database Management	<ul style="list-style-type: none"> <li>• MS SQL Server</li> <li>• REDCap</li> <li>• Microsoft Access / Excel</li> </ul>
Data Visualization	<p>Interactive Dashboards:</p> <ul style="list-style-type: none"> <li>• R Shiny / Flexdashboard</li> <li>• Power BI</li> </ul> <p>Visualization:</p>
Content Analysis	<ul style="list-style-type: none"> <li>• R (ggplot2, plotly, ggpubr)</li> <li>• NVIVO</li> <li>• Atlas.ti</li> <li>• WordSmith</li> </ul>

## G. PUBLICATIONS

- 2021  
(IF = 2.257)      Pahlevan Sharif S, Lehto RH, Amiri M, Ahadzadeh AS, Sharif Nia H, Haghdoost AA, Khoshnavay Fomani F, Goudarzian AH. Spirituality and quality of life in women with breast cancer: The role of hope and educational attainment. *Palliative & Support Care*. 2021;19(1):55-61. Epub 2020/06/26. doi: 10.1017/S1478951520000383. PubMed PMID: 32580795. (co-author)
- 2021  
(IF = 3.186)      Pahlevan Sharif S, Amiri M, Allen KA, Sharif Nia H, Khoshnavay Fomani F, Hatef Matbue Y, Goudarzian AH, Arefi S, Yaghoobzadeh A, Waheed H. Attachment: the mediating role of hope, religiosity, and life satisfaction in older adults. *Health and Quality of Life Outcomes*. 2021;19(1):57. Epub 2021/02/17. doi: 10.1186/s12955-021-01695-y. PubMed PMID: 33588858; PMCID: PMC7885200. (co-author)
- 2021  
(IF = 2.159)      McIntyre M, Amiri M, Kumbhare D. Postconcussion Syndrome: A Diagnosis of Past Diagnostic and Statistical Manual of Mental Disorders. *American Journal of Physical Medicine & Rehabilitation*. 2021;100(2):193-5. Epub 2020/09/06. doi: 10.1097/PHM.0000000000001586. PubMed PMID: 32889864. (collaborator)

- 2021  
(IF = 4.379) Evans V, Koh RGL, Duarte FCK, Linde L, Amiri M, Kumbhare D. A randomized double blinded placebo controlled study to evaluate motor unit abnormalities after experimentally induced sensitization using capsaicin. *Scientific Reports*. 2021;11(1):13793. Epub 2021/07/04. doi: 10.1038/s41598-021-93188-7. PubMed PMID: 34215800. (collaborator)
- 2021  
(IF = 3.133) Amiri M, Rhudy J, Masani K, Kumbhare D. Fibromyalgia and Nociceptive Flexion Reflex (NFR) Threshold: A Systematic Review, Meta-Analysis, and Identification of a Possible Source of Heterogeneity. *Journal of pain research*. 2021;14:1653-65. Epub 2021/06/19. doi: 10.2147/JPR.S306403. PubMed PMID: 34140802; PMCID: PMC8203279. (primary author)
- 2021  
(IF = 1.985) Amiri M, Alavinia SM, Omidvar M, Pakosh M, Catharine Craven B. Systematic reviews in spinal cord injury: A step-by-step guide for rehabilitation science learners and clinicians. *Journal of Spinal Cord Medicine*. 2021;1-12. Epub 2021/05/27. doi: 10.1080/10790268.2021.1923261. PubMed PMID: 34038338. (co-primary author)
- 2021  
(IF = 2.159) Amiri M, Alavinia M, Singh M, Kumbhare D. Pressure Pain Threshold in Patients With Chronic Pain: A Systematic Review and Meta-Analysis. *American Journal of Physical Medicine & Rehabilitation*. 2021;100(7):656-74. Epub 2020/10/02. doi: 10.1097/PHM.0000000000001603. PubMed PMID: 33002911. (primary author)
- 2020  
(IF = 2.159) McIntyre M, Kempenaar A, Amiri M, Alavinia SM, Kumbhare D. The Role of Subsymptom Threshold Aerobic Exercise for Persistent Concussion Symptoms in Patients With Postconcussion Syndrome: A Systematic Review. *American Journal of Physical Medicine & Rehabilitation*. 2020;99(3):257-64. Epub 2020/02/23. doi: 10.1097/PHM.0000000000001340. PubMed PMID: 32079897. (collaborator)
- 2020  
(IF = 2.874) Amiri M, Kumbhare D. Randomized controlled trials in non-pharmacological rehabilitation research: a scoping review of the reporting of sample size calculation, randomization procedure, and statistical analyses. *European Journal of Physical and Rehabilitation Medicine*. 2020;56(6):790-8. Epub 2020/09/17. doi: 10.23736/S1973-9087.20.06451-5. PubMed PMID: 32935956. (primary author)
- 2020  
(IF = 2.159) Amiri M, Esmaili H, Hamad AH, Alavinia M, Masani K, Kumbhare D. Nociceptive Flexion Reflex (NFR) Threshold in Chronic Pain Patients: A Needed Update for the Current Evidence. *American Journal of Physical Medicine & Rehabilitation*. 2020. Epub 2020/10/17. doi: 10.1097/PHM.0000000000001626. PubMed PMID: 33065577. (primary author)

- 2016  
(IF = 4.379) Majid HA, Amiri M, Mohd Azmi N, Su TT, Jalaludin MY, Al-Sadat N. Physical activity, body composition and lipids changes in adolescents: analysis from the MyHeART Study. *Scientific Reports*. 2016;6:30544. Epub 2016/07/29. doi: 10.1038/srep30544. PubMed PMID: 27465116; PMCID: PMC4964611. (primary author)
- 2015  
(IF = 3.411) Su TT, Amiri M, Mohd Hairi F, Thangiah N, Dahlui M, Majid HA. Body composition indices and predicted cardiovascular disease risk profile among urban dwellers in Malaysia. *Biomed Research International*. 2015;2015:174821. Epub 2015/02/25. doi: 10.1155/2015/174821. PubMed PMID: 25710002; PMCID: PMC4326033. (primary author)
- 2015  
(IF = 3.411) Su TT, Amiri M, Mohd Hairi F, Thangiah N, Bulgiba A, Majid HA. Prediction of cardiovascular disease risk among low-income urban dwellers in metropolitan Kuala Lumpur, Malaysia. *Biomed Research International*. 2015;2015:516984. Epub 2015/03/31. doi: 10.1155/2015/516984. PubMed PMID: 25821810; PMCID: PMC4363497. (primary author)
- 2014  
(IF = 3.295) Amiri M, Majid HA, Hairi F, Thangiah N, Bulgiba A, Su TT. Prevalence and determinants of cardiovascular disease risk factors among the residents of urban community housing projects in Malaysia. *BMC Public Health*. 2014;14 Suppl 3(Suppl 3):S3. Epub 2014/12/02. doi: 10.1186/1471-2458-14-S3-S3. PubMed PMID: 25436515; PMCID: PMC4251129. (primary author)
- 2013  
(IF = 3.295) Rasiah R, Yusoff K, Mohammadreza A, Manikam R, Tumin M, Chandrasekaran SK, Khademi S, Bakar NA. Cardiovascular disease risk factors and socioeconomic variables in a nation undergoing epidemiologic transition. *BMC Public Health*. 2013;13:886. Epub 2013/09/27. doi: 10.1186/1471-2458-13-886. PubMed PMID: 24066906; PMCID: PMC3849479. (primary author)

## H. CONFERENCES

### 1. Proceedings

- 2018 A correlation analysis between MOOCs and scholarly performance with emphasis on scientific peer reviewed journal publication: An evidence-based comparison between several countries. Mohammadreza Amiri, Samira Hosseini, Julien Marcel Depauw. Congreso Internacional De Innovacion Educativa, Tecnologico de Monterrey, Monterrey, Mexico. <https://ciie.itesm.mx/en/memorias/>

- 2015 Correlate of Body Composition Indices and the Predicted Risk of Cardiovascular Disease among Urban Dwellers in Kuala Lumpur. Tin Tin Su, Mohammadreza Amiri, Farizah Mohd Hairi, Nithiah Thangiah, Maznah Dahlui, Hazreen Abdul Majid University of Malaya, Malaysia – The 3<sup>rd</sup> Asian Population Association. [https://www.asianpa.org/images/Conference\\_program/2015\\_conference](https://www.asianpa.org/images/Conference_program/2015_conference)

- 2013 [program.pdf](#)  
Prevalence and determinants of cardiovascular disease risk factors among the residents of urban community housing projects in Malaysia.  
International Research Symposium on Population Health 2013.  
Mohammadreza Amiri, Hazreen Abdul Majid, Farizah Mohd Hairi, Nithiah Thangiah, Awang Bulgiba and Tin Tin Su.  
<https://bmcpublichealth.biomedcentral.com/articles/supplements/volume-14-supplement-3>

## 2. Abstract

- 2021 Evolution of a Spinal Cord Injury Implementation and Evaluation Quality Care Consortium data strategy: It's more than just the numbers. The 9th National Spinal Cord Injury Conference. First Prize. Farnoosh Farahani, Mohammadreza Amiri, Seyed Mohammad Alavinia, B. Catharine Craven.  
<https://cscira.ca/2021-virtual-program/>