

Curriculum Vitae

SEMIRA OMER MOHAMMED

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Personal Details

Nationality:	Eritrean
Date of Birth:	05 February 1979
Current Employer:	Qatar Transportation and Traffic Safety Center, Qatar University
Position:	Senior Research Assistant
Language proficiency	English, Tigrina, Arabic (intermediate)

Tertiary Education and Professional Status

MSc Transportation Planning	University of Pretoria, South Africa	September, 2008
BSc (Hons) (Transport)	University of Pretoria, South Africa	April, 2007
BSc (Civil Engineering)	University of Asmara, Eritrea	July, 2003

Employment History

Name of organization	Date
Qatar Transportation and Traffic Safety Center, Qatar University, Doha, Qatar	2015 - Current
Cross-Border Road Transport Agency, Pretoria, South Africa	2014 - 2015
Council for Scientific and Industrial Research, Pretoria, South Africa	2006 - 2015
Administration of Zoba Maekel, Asmara, Eritrea	2003 - 2005

Overall Work Experience

Semira Mohammed is a Senior Research Assistant in Qatar Transportation and Traffic Safety Studies Center (QTTSC) of Qatar University in the area of Transportation Engineering. Prior to joining the center, she held a similar post in the Transport Systems and Operations Research Group at the Council for Scientific and Industrial Research (CSIR) in Pretoria, South Africa. She holds a degree in Civil Engineering from the University of Asmara, Eritrea and Masters in Transportation Planning from the University of Pretoria, South Africa. She started working part-time for CSIR as early as 2006 while studying for her Master's degree after which she was retained as a full-time permanent researcher.

Her research work focuses in the areas of transport planning, transport modelling and traffic engineering. She has published a peer-reviewed technical paper in the South African Institute of Civil Engineers journal as well as presented papers in the Southern African Transport Conference. Her published paper won Best Paper award in Traffic and Transportation from the South African Institute of Civil Engineers in 2014.

She was part of the CSIR team that consulted on the topics of transport planning and operations for all the spheres of government in South Africa. She was awarded 2014 Best Emerging Leader in Built Environment Competency Area of CSIR. She also served as a non-executive director at the Cross-Border Road Transport Agency Board of Directors in South Africa.

Since joining the QTTSC in 2015, she managed a research program sponsored by Maersk Oil to evaluate their road safety campaigns. She is also part of the team that is undertaking transport studies for Katara Cultural Village and Qatar University. She further leads some studies as part of the Qatar National Road Safety Strategy assigned to Qatar University.

Selected previous work undertaken

- Methodology Report for Qatar University Traffic Impact Study, 2018, in accordance to the MOTC Guidelines for Transport Studies
- Traffic Data Analysis Report for Qatar University Traffic Impact Study, 2018, in accordance to the MOTC Guidelines for Transport Studies
- Qatar University Transport Status Quo Report, 2018, report for Office of the President, Qatar University
- “Systems influence on Bus Drivers’ Behaviours and how to tackle them”, 2018, IRU & Mowasalat Seminar
- Dr . Khalifa Nasser M N Al-Khalifa, Dr . Noor Ali S A Al-Maadeed, Eng. Semira Omer Mohammed, Eng. Sajeda Abunada. Evaluation of “Students for Road Safety: 12 to 18 years” Campaign, 2017 QU Annual Research Forum Poster
- Traffic Data Analysis Report for Katara Development Traffic Impact Study, 2017, in accordance to the MOTC Guidelines for Transport Studies
- White Paper on Road Freight Transport and Safety, 2017, report from the CWSP-funded workshop on heavy vehicles
- Students 12-18 years old for Road Safety, 2017, evaluation report for the program funded by Maersk Oil.
- Diagnostics report for the City of Tshwane Bus Services operations, inclusive of review and redesign of timetable, network, and resource scheduling.

- Refinement of the cross-border market access regulation model for the Cross-Border Road Transport Agency (C-BRTA)
- Investigation into alternative ways of reducing the operational costs of the Tshwane University of Technology student bus services results of which were published in the proceedings of the 2014 Industrial Engineering and Operations Management (IEOM) conference.
- Analysis of the land transport modal shift in South Africa for the National Department of Transport.
- Development of the JS Moroka Municipality Integrated Transport Plan for the Nkangala District Municipality
- Design of the Measurement Reporting and Verification (MRV) systems for modal shift from road to rail, using Gautrain rail link in South Africa as a case study, for a joint project by GIZ, Department of Transport and the Department of Environmental Affairs.
- Road safety assessment study for the Moloto Road (R573) for Mpumalanga Roads and Transport Department.
- Preparation of ward-based community road safety plans for the 109 Johannesburg wards including community engagement in road safety.
- Study into the identification and treatment of hazardous road sections in the Cacadu District Municipality.
- Pre-feasibility study of non-motorised transport (NMT) in the 2010 FIFA World Cup host cities funded by kWf Bank as part of the DEA greening programme.

Awards

- 2018 QNRF – CWSP grant award
- 2014 Emerging Leader Award from CSIR Built Environment Competency Area
- 2013 Best Paper Delivered in Traffic and Transportation for Journal of the South African Institution of Civil Engineering

Journal Article and Conference Papers Authored

Mohammed, S. O., Al-Khalifa, K. N. M. N., Alhajyaseen, W. K. M., Abounada, S. A., Ahmed, M. H. (2018). Attitudes towards road safety among pre-drivers: The case of Qatar. Proceedings of the International Conference on Industrial Engineering and Operations Management (vol. 2018-March, pp. 309-314). https://api.elsevier.com/content/abstract/scopus_id/85051466810

Ranjit, V and Mohammed, S.O., 2014. TUT student bus transport system: a case study. Presented paper at the Industrial Engineering and Operations Management (IEOM), 2014 <http://www.iieom.org/ieom2014/pdfs/424.pdf>

Venter, C J and Mohammed, S O., Estimating car ownership and transport energy consumption: a disaggregate study in Nelson Mandela Bay. Journal of the South African Institution of Civil Engineering. April 2013, (vol.55, no.1, p.02-10. ISSN 1021-2019).
http://www.scielo.org.za/scielo.php?script=sci_arttext&pid=S1021-20192013000100001

Magazi, L.; Mohammed, S., The importance of heavy vehicle driver education in South Africa. Southern African Transport Conference (34th : 2015 : Pretoria, South Africa).
<http://hdl.handle.net/2263/57765>

Mohammed, S.O.; Labuschagne, F.J.J.; Road accident data base: the case of Cacadu District Municipality. Southern African Transport Conference (33rd : 2014 : Pretoria, South Africa).
<http://hdl.handle.net/2263/45567>

Mohammed S.O, Venter C.J., 2009. Analysing Passenger Transport Energy Consumption from Travel Survey Data: A case study of Nelson Mandela Metropolitan Area. Presented paper at Southern African Transport Conference, Pretoria, 2009.
<http://hdl.handle.net/2263/10965>

Mohammed S.O, Labuschagne F.J.J., 2008. Can Draconian Law Enforcement Solve the South African Road Safety Crisis? Presented paper at Southern African Transport Conference, Pretoria, 2008.
<http://hdl.handle.net/2263/6385>

Professional Development

- MS Project (2011) CSIR CILLA
- Research Ethics (2013) CSIR CILLA
- Research and Innovation Core Skills (2013) CSIR CILLA
- Transport Services Course (2013) Transport Research Laboratory (TRL)
- Basic PTV VISUM (2015) PTV
- Road Safety Audit Training IRF-Certified (2016)
- TRB Conference Exhibitor (2017)
- ISO/COPOLCO workshop panelist "Road Safety by Design", 2017
- ITSC 2018 session moderator and member of organizing committee
- Certified Child Passenger Safety Technician (CPST), Ghalai Station, Qatar 2018