

# ALI GHOLAMI

DEPARTMENT OF ENGINEERING  
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## CAREER BACKGROUND

**Golestan University:** Assistant Professor (2017-now)  
**University of Nevada Reno:** Postdoctoral Researcher (2015-2017)  
**University of Nevada Reno:** Graduate Researcher (2012-2015)  
**Mashhad Traffic and Transportation Organization (MTTO) :** Transportation Engineer (2010-2012)  
**Atiesaz Shargh Consultants:** Transportation Engineer (2006-2012)

## ACADEMIC CAREER

**University of Nevada Reno, USA**  
Ph.D., Transportation Engineering, (2012 - 2015). Supervisor: Professor **Zong Tian**  
**Iran University of Science and Technology, Iran**  
M.Sc. in Civil Engineering (Transportation Planning Engineering), (2005 - 2007). Supervisor: Professor Afshin Shariat  
**Islamic Azad University of Mashhad, Iran**  
B.Sc. in Civil Engineering (2001 - 2005)

## JOURNAL PUBLICATIONS

1. **Gholami, A.**, Wang, D., Davoodi, S.R. and Tian, Z., 2021. An adaptive neural fuzzy inference system model for freeway travel time estimation based on existing detector facilities. *Case Studies on Transport Policy*. <https://doi.org/10.1016/j.cstp.2021.08.009>
2. Wang, D.; Tian, Z.; **Gholami, A.**; Yang, G.; "Evaluation of virtual controller interface device and software-in-the-loop simulation". In Proceedings of the Institution of Civil Engineers-Transport (pp. 1-11). Thomas Telford Ltd.
3. **Gholami, A.**; Tian, Z.; (2019). "The comparison of optimum frequency and demand based frequency for designing transit networks". *Case Studies on Transport Policy*, 7(4), 698-707.
4. Wang, D.; Tian, Z.; **Gholami, A.**; Yang, G. "Evaluation of virtual controller interface device and software-in-the-loop simulation". Proceedings of the Institution of Civil Engineers-Transport, 1-11, 2018.
5. **Gholami, A.**; Tian, Z. "Model of transition delay for unaccommodated pedestrian timing", *ASCE Journal of Transportation Engineering, Part A: Systems*, Volume 144, Issue 2, 2018.
6. **Gholami, A.**; Ziaee, M. "Development of a performance measurement system to choose the most efficient programs, the case of the Mashhad transportation system" *Transportation Research Part A: Policy and Practice* Volume 106, 2017.
7. **Gholami, A.**; Tian, Z. "Increasing the accuracy of loop detector counts using adaptive neural fuzzy inference system and genetic programming" *Transportation Planning and Technology*, Volume 40, Issue 4, 2017.
8. Wang, D.; Tian, Z.; Yang, G.; **Gholami, A.**; "Comparison of performance between Virtual Controller Interface Device and Controller Interface Device", *IET Intelligent Transport Systems*, Volume 12, Issue 1, 2017.
9. **Gholami, A.**; Andalibian, R; Tian, Z. "Innovative detector layout for automated traffic turning volume counting" *Journal of Advanced Transportation*, Volume 50, Issue 8, 2016.
10. **Gholami, A.**; Tian, Z. "A multi-criteria-based guideline for pedestrian timing accommodation into signal coordination" *ASCE Journal of Transportation Engineering, Part A: Systems*, Volume 143, Issue 3, 2016.
11. **Gholami, A.**; Tian, Z. "Using stop bar detector information to determine turning movement proportions in shared lanes". *Journal of Advanced Transportation*, Volume 50, Issue 5, 2016.
12. **Gholami, A.**; Andalibian, R; Tian, Z. "Estimating intersection turning volumes from actuated traffic signal information". *Journal of Traffic and Transportation Engineering*, Volume 3, Issue 6, 2016.
13. **Gholami, A.**; Tian, Z. "Designing the required changes in the bus network after performing limited traffic zone in Mashhad, Iran". *Case Studies on Transport Policy*, Volume 4, Issue 2, 2016.
14. **Gholami, A.**; Taghizadeh, Y.; Tian, Z. "Classification of taxi khattee (jitney) lines based on topography and line cost indices", *Transportation Research Part A: Policy and Practice*, Volume 59, 2014.
15. Tahoorinia, M.M.; Shariat, A.; **Gholami, A.** "Designing a multimodal network by covering stops with different modes", *Canadian Journal of Civil Engineering*, Volume 41, Issue 1, 2014.
16. **Gholami, A.**; Shariat, A. "Analogy of fixed route shared taxi (taxi khattee) and bus services under various demand density and economical conditions" *Journal of Advanced Transportation*, Volume 46, Issue 2, 2012.
17. **Gholami, A.**; Shariat, A. "Economic conditions for minibus usage in a multimodal feeder network" *Transportation Planning and Technology*, Volume. 34, Issue 8, 2011.
18. Shariat, A.; **Gholami, A.** "The multimodal feeder network design problem: ant colony optimization approach," *ASCE Journal of Transportation Engineering*, Volume 136, Issue 4, 2010.

## BOOK

19. Ali Gholami and Mohammad M Amiripur, 2012, "An Introduction to Paratransit" (in Persian). Municipalities and Rural Management Organization press.

<b>CONFERENCE PUBLICATIONS</b>	<ol style="list-style-type: none"> <li>20. Gholami, A; Shariat, A; Mohamadian, P. "Adaptive Taxi Vehicle Characteristics for Iran" The 8th International Conference on Traffic and Transportation Engineering, May 2008.</li> <li>21. Shariat, A; Gholami, A. "An Introduction of Feeder Network Design for Light Rail Transit (LRT)". The 8th International Conference on Traffic and Transportation Engineering, May 2008.</li> <li>22. Shariat, A; Tahoorinia, M; Gholami, A. "Designing Short Turn Services-Ant Colony Optimization Approach". The 10th International Conference on Traffic and Transportation Engineering, November 2010.</li> <li>23. Gholami, A; Ziaee, M; "Proposing an Inexpensive Bus Line Capacity Analysis- Case Study of Mashhad Bus Line 29". The 11th International Iranian Conference on Traffic and Transportation Engineering, November 2011.</li> <li>24. Gholami, A. "Water Filled Barriers Applications". The 11th International Iranian Conference on Traffic and Transportation Engineering, November 2011</li> <li>25. Gholami, A. "Application and Location of Variable Message Signs in Urban Streets". The 11th International Iranian Conference on Traffic and Transportation Engineering, November 2011</li> </ol>
<b>SOFTWARE DEVELOPING</b>	<ul style="list-style-type: none"> <li>▫ Prototype and development of TASLA (Transit Automatic System and Line Analysis): a software package for analyzing and designing transit system using automatic data such as AFC and AVL.</li> <li>▫ Prototype and development of PeTASC (Pedestrian Timing Accommodation into Signal Coordination): a software package for determining the best pedestrian timing and transition option.</li> </ul>
<b>RESEARCH EXPERIENCES</b>	<ul style="list-style-type: none"> <li>▫ "Data Mining of Mashhad Transit Smart Cards" Golestan University. Municipality of Mashhad project (2020)</li> <li>▫ "Development and Calibration of Regional Dynamic Traffic Assignment Models for the Estimation of Traffic Performance Measures in Nevada", University of Nevada Reno. Nevada Department of Transportation (NDOT) project (2017).</li> <li>▫ "A Guideline for Pedestrian Timing Accommodation into Signal Coordination", University of Nevada Reno. UTC project (2015).</li> <li>▫ "Automated Intersection Volume Counts Using Existing Signal Control Devices", University of Nevada Reno. Nevada Department of Transportation (NDOT) project (2014).</li> <li>▫ "Automated Volume Counts Using System Detectors", University of Nevada Reno. Regional Transportation Commission (RTC) project (2013).</li> <li>▫ "Optimal Location and Number of Loop Detectors to Get Traffic Counts", University of Nevada Reno. Regional Transportation Commission (RTC) project (2012).</li> <li>▫ "Development of a performance measurement system to choose the most efficient programs for Mashhad Transportation and Traffic Organization", Mashhad Transportation and Traffic Organization (2012)</li> <li>▫ "Manual of Traffic Calming", Mashhad Transportation and Traffic Organization (2008).</li> <li>▫ "Manual of Variable Message Signs (VMA)", Mashhad Transportation and Traffic Organization (2008).</li> <li>▫ "Manual of Water Filled Barriers", Mashhad Transportation and Traffic Organization (2008).</li> <li>▫ "Traffic Management Strategies", Islamic Republic of Iran Ministry of Interior, Atiesaz Shargh Co, (2007).</li> <li>▫ "The Application of Metaheuristics in Transportation Engineering", Iran University of Science and Technology. (2006).</li> <li>▫ "The appropriate Traffic Education Curriculum for Primary Schools", Iran University of Science and Technology. (2006).</li> <li>▫ "Studying Traffic Control Devices of USA, Australia, and Iran", Mashhad Transportation and Traffic Organization, Sivane Shargh Co (2005).</li> </ul>
<b>TEACHING EXPERIENCES</b>	<ul style="list-style-type: none"> <li>▫ Assistant Professor, Golestan University, (2017-now)</li> <li>▫ Guest Speaker- Traffic Simulation (CEE 761): University of Nevada Reno, fall 2016</li> <li>▫ Guest Speaker- Capstone Design (CEE 427): University of Nevada Reno, fall 2015.</li> <li>▫ Guest Speaker- Traffic Operation (CEE 463/663): University of Nevada Reno, fall 2015.</li> <li>▫ Lecturer – University of Applied Science and Technology, Mashhad, Iran, fall 2009.</li> <li>▫ Lecturer – University of Applied Science and Technology, Mashhad, Iran, winter 2010.</li> <li>▫ Lecturer – University of Applied Science and Technology, Mashhad, Iran, fall 2010.</li> <li>▫ Lecturer – University of Applied Science and Technology, Mashhad, Iran, winter 2011.</li> <li>▫ Lecturer – University of Applied Science and Technology, Mashhad, Iran, fall 2011.</li> <li>▫ Lecturer – Workshop of "Transportation System" held for municipalities of Khorasan-e-Razavi province cities, Mashhad, Iran, fall 2011.</li> <li>▫ Lecturer – Workshop of "Transit Performance Measures" held for municipalities of small cities of Iran, Mashhad, Iran, spring 2010.</li> <li>▫ Lecturer – Workshop of "Transportation Management" held for municipalities of Khorasan-e-Razavi province cities, Mashhad, Iran, winter 2011.</li> <li>▫ Lecturer – Workshop of "Paratransit System Design", held for Mashhad Transportation and Traffic Organization (MTTO), Mashhad, Iran, winter 2010.</li> </ul>

<b>TECHNICAL EXPERIENCES</b>	<ul style="list-style-type: none"> <li>▫ Transportation Engineer of Mashhad Transportation and Traffic Organization, (2011-2012).</li> <li>▫ Manager of Atiesaz Shargh Co Mashhad office (2009-2011) (The central office is located in Tehran).</li> <li>▫ Project manager of Atiesaz Shargh Co at project “Rural Passenger and Freight Terminal Location”, (2011).</li> <li>▫ Engineer of Atiesaz Shargh Co at project “Comprehensive Plan of Mashhad Intelligent Transportation System”, (2011).</li> <li>▫ Engineer of Atiesaz Shargh Co at project “Comprehensive Plan of Bojnourd Intelligent Transportation System”, (2010).</li> <li>▫ Engineer of Atiesaz Shargh Co at project “Mashhad Traffic Restricted Area Revision and Extension Study”, (2010).</li> <li>▫ R&amp;D Consultant of Mashhad Transportation and Traffic Organization CEO (2008).</li> <li>▫ Participation in project of “Revising Accessibility of Mashhad Inter-City Bus Terminal”, Mashhad Transportation and Traffic Organization (2008).</li> <li>▫ Designer of mathematical phase of project “Tehran Bus Rapid Transit Network Planning”, with maximizing coverage criteria using Genetic Algorithm, Amirkabir University of Technology (2006).</li> <li>▫ Accomplishing project of “Developing Iran Taxi Cab Characteristics”, Islamic Republic of Iran Ministry of Interior, Atiesaz Shargh Co, (2006).</li> <li>▫ Accomplishing project of “Automatic Vehicle Location (AVL) Usage in Transit and Emergency Services”, Islamic Republic of Iran Ministry of Interior, Atiesaz Co, (2007).</li> <li>▫ Resident Engineer of Iran University of Science and Technology (IUST) on project of “Mashhad Freight Comprehension Plan” (2009).</li> <li>▫ Participating in the part of “Therapeutic Related Costs” of project “Iran Transportation Accident Costs Estimation” Directed by Professor Esmaeel Ayati (2009)</li> <li>▫ “Developing Mashhad Transportation and Traffic GIS Database”, Mashhad Transportation and Traffic Organization, Sivane Shargh Co (2005).</li> </ul>
<b>AWARDS</b>	<ul style="list-style-type: none"> <li>▫ Best paper at ITE Intermountain Meeting (2014)</li> <li>▫ Best poster at ITE Western/Midwestern Meeting (2014)</li> <li>▫ Second best paper at ITE Intermountain Meeting (2015)</li> <li>▫ Second poster at NVAPA Annual conference (2015)</li> <li>▫ Best poster at NVAPA Annual conference (2016)</li> <li>▫ UNR scholarship (2013)</li> <li>▫ UNR scholarship (2015)</li> </ul>
<b>ACADEMIC EXCHANGES AND COLLABORATION</b>	<ul style="list-style-type: none"> <li>▫ Visiting Scholar: Tongji University (Shanghai, China, March 2019)</li> <li>▫ Invited Speaker: 2018 International Traffic Signal Control Forum (Tianjin, China, 2018)</li> <li>▫ Invited Speaker: 18th COTA International Conference of Transportation Professionals (Beijing, China, 2018)</li> </ul>
<b>SERVICES</b>	<ul style="list-style-type: none"> <li>▫ Reviewer of Case Studies on Transport Policy</li> <li>▫ Reviewer of Journal of Advanced Transport</li> <li>▫ Reviewer of ASCE Journal Transportation Engineering</li> <li>▫ Reviewer of TRB</li> </ul>