

CURRICULUM VITAE

Ali Asgary, Ph.D.

Professor

Disaster & Emergency Management

School of Administrative Studies

Faculty of Liberal Arts & Professional Studies

York University

EDUCATION

Newcastle University (England), Newcastle upon Tyne, UK.

Ph.D., July 1996

School of Architecture, Planning and Design, 1996.

University of Tehran, Tehran, Iran, Master of Arts, June 1990

Faculty of Economics

Development & Planning

University of Tehran, Tehran, Iran, Honours Bachelor of Science, June 1987

Faculty of Economics, Economic Theory

EMPLOYMENT HISTORY

York University, Toronto, Ontario

Professor, Disaster and Emergency Management, July 2005-Present.

Brandon University, Brandon, Manitoba

Assistant Professor (Tenure Track), Department of Applied Disaster and
Emergency Studies, February 2003- June 2005.

CURRENT POSITIONS

Director, CIFAL York, June 2021-now.

Executive Director, Advanced Disaster, Emergency & Rapid-response Simulation
(ADERSIM), York University.

ADJUNCT POSITIONS

York University, Toronto, Ontario

School of Information Technology, Master of Information Technology Program, 2010-Now.

RESEARCH GRANTS

i) External

- 2022-2025 Co-Applicant, Global South Artificial Intelligence for Pandemic and
Epidemic Preparedness and Response Network, International
Development Research Centre (IDRC), \$7,250,000.00.
- 2021-2025 PI, Disaster & Emergency Extended Reality Lab (DEXR LAB),
Canada Foundation for Innovation's (CFI) John R. Evans Leaders
Fund (JELF) program, 100,000.
- 2021-2023 Co-Applicant, Mathematics for public health, CIHR, \$ 3,000,000.
- 2020-2022 Co-Applicant, Predictive modeling and forecasting of the
transmission of COVID-19 in Africa using Artificial Intelligence,
International Development and Research Centre (IDRC), Global
South AI4COVID Response Program, \$1,200,000.
- 2020-2021 Co-Applicant, COVID-19: Building longer-term community

- resilience and disaster preparedness via analytics of a fire department's responses to emergency incidents during a pandemic – Case of Vaughan, Ontario, SSHRC, Engage Partnership Grant, \$ 25,000.
- 2020-2020 CO-PI, Agent-Based Simulation of COVID-19 Transmission and Prevention Measures in Hemodialysis Units at University Health Network/Mt. Sinai (UHN/MSH) for Management, Rapid Training, and Education (HD-COVID-SIM). MSH-UHN AMO Innovation Fund. \$ 82,283
- 2020-2022 CO-PI, Countermeasures to the supply chain disruptions in medical and pharmaceutical industries, CIHR COVID-19 Rapid Response, \$130,600.
- 2020-2022 CO-PI, Mathematics of COVID-19: Infection Risk Assessment and Intervention Evaluation, CIHR COVID-19 Rapid Response, \$500,000.
- 2019-2020 CO-PI, Complex Adaptive Modelling Climate Change Health Impacts in Malawi, Wellcome Trust, UK, US\$ 507,120.
- 2020-2021 PI, Developing a Spontaneous Volunteers Management Framework and System for Major Disasters & Emergencies in Ontario, SSHRC, \$ 25,000.
- 2018-2021 CO-PI, ARGUS: Radar-based All-Weather Roadway Safety System, DRDC Canada, \$1,436,426.
- 2018-2020 CO-PI, Advanced Geospatial Technology for Train Derailment Mitigation, Transport Canada, \$483,000.
- 2017-2018 PI, Fires and Disasters: Examining Fire Incidents during Major Disasters and Emergencies in Canada, National Fire Information Database (NFID), 20,000.
- 2017-2018 CO-PI, Fires and Disasters: Developing A Bench-Test Fire Incident Simulation, National Fire Information Database (NFID), 20,000.
- 2016 – 2021 CO-Lead, Advanced Disaster, Emergency and Rapid Response Simulation Facility, Ontario Research Fund (ORF), ORF Research Infrastructure, \$1,450,000.
- 2015 – 2018 CO-PI, Advanced Disaster, Emergency and Rapid Response Simulation, Natural Sciences and Engineering Research Council of Canada (NSERC), NSERC Collaborative Research and Training Experience (CREATE), Total Funding -\$1,650,000.
- 2016-2019 PI, Developing Disaster Mutual Assistance Decision Support Tools for Electricity Utilities, Canadian Electricity Association, \$15,000.00
- 2015-2016 PI, Developing Disaster Mutual Assistance Decision Support Tool for Electricity Utilities, Toronto Hydro, \$3000
- 2015 – 2017 CO-investigator, Building Bridges across Social and Computational Sciences: Using Big Data to Inform Humanitarian Policy and Interventions, Social Sciences and Humanities Research Council of Canada (SSHRC), SSHRC Partnership Development Grant, \$200,000.
- 2012, Global Assessment Report, Disaster Risk Reduction and the Private Sector: Case of Vancouver. United Nations ISDR and Florida

- International University, \$ 10,000.
- 2010- Coastal Community's Preferences for Local Climate Change Mitigation Measures (Using Choice Experiment and Virtual World Technology), University of Illinois at Urbana-Champaign, \$ 6000, 2010.
- 2008- SSHRC, \$120,000, Crisis Management: Case of School Shooting, Collaborator. 2007 GEOIDE (Geomatics for Informed Decisions – Center of Excellence), \$ 160,000.
REAL-TIME MULTI-CRITERIA SPATIAL DECISION SUPPORT SYSTEMS: IMPROVING FIRE RESPONSE IN CANADIAN COMMUNITIES, 2 grantees, Principal Investigator.
- 2007 PerCARN, \$ 299,455 Development of a Rule-Based Structural Fire Threat Assessment System for Canadian Fire Departments, Co-investigator.
- 2007 SSHRC, \$ 35000, Determinants of Business Continuity Planning in Canada: Estimating Businesses Willingness to Pay for Power Outage Mitigation and Preparedness Using Stated Choice Analysis, Principal Investigator.
- 2006 NSERC, \$ 400,000. Real-time oil spill detection using Laser-Induced Fluorescence LIDAR, Internet-based Temporal-GIS, and Mobile Emergency Asset Management, 3 grantees, Co-applicant.
- 2004 Public Safety, Emergency Preparedness Canada (PSEPC), \$ 25000, Integrated Disaster Cost/Loss Data Tracking in Canada, Principal Investigator.
- 2002 Center for Urban Planning Studies (Iran), \$ 60,000, "Designing Metropolitan Management System for the Iranian Metropolitan Areas", Principal Investigator.
- 2001 Ministry of Agriculture (Iran), 150'000, Estimating Productivity of Rural Industries in Iran, Ministry of Agriculture, Principal Investigator.
- 2001 Center for Urban Planning Studies, Urban Fire Incidents and National Fire Education Plan, \$ 18,500.00, Principal Investigator.
- 2001 Iranian Housing Foundation, \$ 12000, Transitory Rural Settlements, Principal Investigator.
- 2000 Iranian Agriculture Bank, Location Analysis and Location Model for the Iranian Agriculture Bank Branches and its Application,
- 2000 Ministry of Roads and Transportation, \$ 20,000, "Guidelines for Social, Economic, and Environmental Impact Assessment of Road and Rail Projects", Principal Investigator.
- 2000 Urban Planning Studies Centre, \$ 30'000, Fire Station Location and Site Selection
Models for the Iranian Cities, Center for Urban Planning Studies, 2000, Principal Investigator
- 2000 Sistan Region Development Organization, \$ 7'500, Current and the Future Role and Place of Sistan Regional Development, Organization, Principal Investigator.
- 1999 Iranian Fisheries Company, \$ 7500.00, Designing Regional Indexes for

Fisheries Development Activities, Principal Investigator.

ii) Internal

- 2021 Environmental Risks of Covid-19 Economic Recovery. Minor Research Grant, Faculty of Liberal and Professional Studies, 5000,
- 2019 Examining the Effectiveness of Microsoft Hololens Mixed Reality Application in Emergency Exercises, Training, and Public Education: Case of Volcanic Hazards & Risks, \$ 1530.00, LAPS Small Grant.
- 2016 Enhancing Community Preparedness for Rail Emergencies, LA&PS Global and Community Engagement (GCE) Collaborative Project Fund, \$4720.00
- 2016 Recovery and Resilience of Small Tourism and Hospitality Sector Businesses after the Nepal Earthquake, LA&PS Small Grant, \$5000.00
- 2014 Disaster & Emergency Management Student Competition, Dean's Unit Initiative Fund, \$ 5,000.
- 2012 International Collaboration, LA&PS International Collaboration Fund, \$ 5000.00 2012 Modeling Emergency Evacuation of Volcanic Emergencies: Case of Vulcano Island, LA&PS Minor Research Grant, \$ 5000.
- 2011 Academic Innovation Fund, \$ 7,000, "Developing a Business Continuity Planning Toolkit for Canadian Small Businesses.", Principal Investigator.
- 2011 York University Faculty Association, \$ 2,400, "Development of an Agent Based Virtual Learning Emergency Operations Centre", Principal Investigator.
- 2011 SSHRC Small Grant, \$ 1000, "Investigating the Communication and Coordination Failures of the Early Warning System in Pakistan: Case of the summer 2010 Flood", Principal Investigator.
- 2008 Knowledge Mobilization Incentive Grant, \$4000, Developing Brampton Business Continuity Network, in partnership with city of Brampton.
- 2006 SSHRC Small Grant, 2,700.00, "Measuring Canadian National Critical Infrastructure Interdependencies Using an Input-Output Analysis", Principal Investigator.
- 2006 Atkinson Research Grant, \$ 1500, "Mapping and Spatial Analysis of Canadian Technological Disasters", Principal Investigator.
- 2005 Brandon University Outreach, \$ 500, "BRANDON ECO-DOME/EMERGENCY SHELTER PROJECT", Principal Investigator.
- 2003 Brandon University Research Committee (BURC), \$ 4000, "Institutionalization of Post Disaster Reconstruction Experiences", Principal Investigator.

SCHOLARY AND PROFESSIONAL CONTRIBUTIONS

i) Books

- Farahmand, S., Asgary, A., 2020, agent-Based Modelling and Simulation with AnyLogic, Sharief University of Technology Publication, (Under publication, in Persian).
- Asgary A. 2018, "Resettlement Challenges for Displaced Population and Refugees", Springer.
- Asgary A. and Arzhangi S., 2018, Introduction to Crowd Disaster Management, Noore Elm Publications, Iran, Tehran (in Persian).
- Azimi Nooraldin, Asgary Ali, 2016, City Building, 9 Principles, Guilan University Press.
- Asgary Ali, Rakhshani Pedram, and Esmaeili Akbar, 2012, GIS Applications in Disaster Management, Tehran Municipality. (In Persian).
- Asgary Ali, 2011, "Spatial Statistics with GIS", Noore-elm, Iran.
- Asgary Ali, 2010, "ISO 31000 Risk Management Manual", Noore-elm Publication, Tehran, Iran. (In Persian)
- Hamid Saremi and Ali Asgary, 2004, "ArcView GIS Extensions", Tehran, Iran.
- Ali Asgary, Asad Razani, and Pedram Rakhshani, "Urban Land Use Planning: Systems and Models, Noore-Elm Publication, 2002, Hamadan, Iran.
- Asgary Ali and Ashrafzadeh Hamid, 1990, "The role and Place of Cooperative Companies in Foreign Trade", Institute for Trade Studies and Research, Tehran, Iran.
- Asgary Ali, 1988, "Pricing, Price Determination and Price Control", Institute for Trade Studies and Research, Tehran, Iran.
- Rafati, M., Asgary Ali, and Ashrafzadeh Hamid, 1993, "Exchange Rate: From Multi Rates to Single Rates", Institute for Trade Studies and Research, Tehran, Iran.
- Asgary Ali and Ashrafzadeh Hamid, 1989, "The role and Place of Cooperative Companies in Internal Trade", Institute for Trade Studies and Research, Tehran, Iran. (In Persian)
- ii) **Peer Reviewed Chapters in Books**
- Lewandowski, Marcin, Asgary, Ali, 2018, "Risk Assessment of the Timber Supply Chain in Southern Ontario Using Agent-Based Simulation", in Innovative Solutions for Sustainable Supply Chains, Hassan Qudrat-Ullah (ed.), 317-332, Springer.
- Asgary A., and Kari D., 2017, "Communicating Disaster Risk Reduction through Web-Map Applications", in Global Challenges and Natural Disaster Management: Geo-Information Technologies", edited by Pirasteh S., and Li, J., Springer, Cham, Switzerland.
- Sarmiento, J.P., Hoberman, G., Ilcheva, M., Asgary, A., Majano, A.M., Poggione, S. and Duran, L.R. 2012. Private Sector and Disaster Risk Reduction: The Cases of Bogota, Miami, Kingston, San Jose, Santiago and Vancouver. Background Paper prepared for the 2013 Global Assessment Report on Disaster Risk Reduction. Geneva, Switzerland: UNISDR.
<http://www.preventionweb.net/gar>
- Asgary Ali, (2011) "International Standards in Disaster and Emergency", in Encyclopedia of Humanitarian Assistance, Sage Publication.
- Asgary Ali, (2011) "National Standards in Disaster and Emergency", in Encyclopedia of Humanitarian Assistance, Sage Publication.

Asgary Ali, 2006, "Theorizing Disaster and Emergency Management", in "Tsunami and Disaster Management", Edited by Raj Kumar and D.K. Srivastava, Thomson Publications, Hong Kong.

Asgary Ali, (2003) "Role of Rural Regions in National Development", Iranian Institute for Rural Development, Tehran, Iran.

iii) **Articles in Refereed Journals**

Asgary, A., Hassan, A., & Corrin, T. (2024). A Virtual Reality Simulation of a Real Landslide for Education and Training: Case of Chiradzulu, Malawi, 2023 Landslide. *GeoHazards*, 5(3), 621-633.

Naeemi, P., Asgary, A., Arabi, M., Taghi-Molla, A., & Wu, J. (2024). Pandemic resilience serious game: crafting an educational strategy board game. *Journal of Public Health*, 1-21.

Ugwu, C. L. J., Asgary, A., Wu, J., Kong, J. D., Bragazzi, N. L., Orbinski, J., & Woldegerima, W. A. (2024). Geographical distribution and the impact of socio-environmental indicators on incidence of Mpox in Ontario, Canada. *medRxiv*, 2024-06.

Panahi, M., & Asgary, A. (2024). Cognitive Biases in Climate Change Policy using Behavioral Economics Theories. *The Economic Research*, 24(2), 265-298.

Han, Q., Rutayisire, G., Mbogning Fonkou, M. D., Avusuglo, W. S., Ahmadi, A., Asgary, A., ... & Kong, J. D. (2024). The determinants of COVID-19 case reporting across Africa. *Frontiers in Public Health*, 12, 1406363.

Farhadi, H., Ebadi, H., Kiani, A., & Asgary, A. (2024). A novel flood/water extraction index (FWEI) for identifying water and flooded areas using sentinel-2 visible and near-infrared spectral bands. *Stochastic Environmental Research and Risk Assessment*, 1-23.

Tofighi, M., Asgary, A., Mohammadi, A., Cronemberger, F., Podloski, B., Park, P. Y., ... & Mukherjee, A. (2024). Lessons learnt from roadside collisions: A Canadian police perspective. *The Police Journal*, 0032258X241246970.

Nazari, M., Mostashar Nezami, I., & Asgary, A. (2024). Mapping social innovation impact evaluation: a comprehensive literature review and prospects for future research. *Quality & Quantity*, 1-28.

Han, Q., Rutayisire, G., Mbogning Fonkou, M. D., Avusuglo, W., Ahmadi, A., Asgary, A., ... & Kong, J. D. (2024). The Determinants of Under-Estimation of Covid-19 Cases Across Africa. *Available at SSRN 4771127*.

Asgary, A., Aarabi, M., Dixit, S., Wen, H., Ahmed, M., & Wu, J. (2024). A Survey of the Use of Modeling, Simulation, Visualization, and Mapping in Public Health Emergency Operations Centers during the COVID-19 Pandemic. *International Journal of Environmental Research and Public Health*, 21(3), 295.

Grunnill, M., Arino, J., McCarthy, Z., Bragazzi, N. L., Coudeville, L., Thommes, E. W., ... & Wu, J. (2024). Modelling disease mitigation at mass gatherings: A case study of COVID-19 at the 2022 FIFA World Cup. *PLOS Computational Biology*, 20(1), e1011018.

Talukder, B., Schubert, J. E., Tofighi, M., Likongwe, P. J., Choi, E. Y., Mphepo, G. Y., ... & Orbinski, J. (2024). Complex adaptive systems-based framework for modeling the health impacts of climate change. *The Journal of Climate*

Change and Health, 15, 100292.

- Nazari, M., Asgary, A., Nezami, I. M., & Ghayourisales, S. (2024). From resistance to resilience: A comprehensive bibliometric analysis of carbon pricing public acceptance. *Energy Research & Social Science*, 107, 103340.
- Baky Haskuee, M., & Asgary, A. (2023). Environmental risk of Covid-19 recovery. *Energy & Environment*, 34(7), 2758-2774.
- Han, Q., Bragazzi, N., Asgary, A., Orbinski, J., Wu, J., & Kong, J. D. (2023). Estimation of epidemiological parameters and ascertainment rate from early transmission of COVID-19 across Africa. *Royal Society Open Science*, 10(9), 230316.
- Movahedi Nia, Z., Bragazzi, N. L., Ahamadi, A., Asgary, A., Mellado, B., Orbinski, J., ... & Kong, J. D. (2023). Off-label drug use during the COVID-19 pandemic in Africa: topic modelling and sentiment analysis of ivermectin in South Africa and Nigeria as a case study. *Journal of the Royal Society Interface*, 20(206), 20230200.
- Avusuglo, W. S., Bragazzi, N., Asgary, A., Orbinski, J., Wu, J., & Kong, J. D. (2023). Leveraging an epidemic–economic mathematical model to assess human responses to COVID-19 policies and disease progression. *Scientific Reports*, 13(1), 12842.
- Asgary, A., Solis, A. O., Khan, N., Wimaladasa, J., & Shafiei Sabet, M. (2023). Spatiotemporal Analysis of Emergency Calls during the COVID-19 Pandemic: Case of the City of Vaughan. *Urban Science*, 7(2), 62.
- Avusuglo, W. S., Han, Q., Woldegerima, W. A., Bragazzi, N., Asgary, A., Ahmadi, A., ... & Kong, J. D. (2023). Impact assessment of self-medication on COVID-19 prevalence in Gauteng, South Africa, using an age-structured disease transmission modelling framework.
- Ghasemi, N., Safavi, A., Saremi, H. R., & Asgary, A. (2023). Intelligent traffic control based on a combined model of Fuzzy logic and Reinforcement learning. *Journal of Transportation research*, 20(1), 135-158.
- Lieberman, B., Gusinow, R., Asgary, A., Bragazzi, N. L., Choma, N., Dahbi, S. E., ... & Wu, J. (2021). Big Data-and Artificial Intelligence-Based Hot-Spot Analysis of COVID-19: Gauteng, South Africa, as a case study (preprint).
- Ogbuokiri, B., Ahmadi, A., Nia, Z. M., Mellado, B., Wu, J., Orbinski, J., ... & Kong, J. (2023). Vaccine hesitancy hotspots in Africa: An insight from geotagged Twitter posts. *IEEE Transactions on Computational Social Systems*.
- Ogbuokiri, B., Ahmadi, A., Tripathi, N., Movahedi, Z., Melado, B., Wu, J., ... & Kong, J. (2023). The Impact of Omicron Variant in Vaccine Uptake in South Africa.
- Vaezi, A., Jones, S., & Asgary, A. (2023). Integrating Resilience into Risk Matrices: A Practical Approach to Risk Assessment with Empirical Analysis. *Journal of Risk Analysis and Crisis Response*, 13(4).
- Schanzer, D. L., Arino, J., Asgary, A., Bragazzi, N. L., Heffernan, J. M., Seet, B. T., ... & Xiao, Y. (2023). Beyond Translation: An Overview of Best Practices for Evidence-Informed Decision Making for Public Health Practice. *Applied Data Science*, 27-39.
- Movahedi Nia, Z., Bragazzi, N., Asgary, A., Orbinski, J., Wu, J., & Kong, J. (2023). Mpox Panic, Infodemic, and Stigmatization of the Two-Spirit, Lesbian, Gay, Bisexual, Transgender, Queer or Questioning, Intersex, Asexual Community: Geospatial Analysis, Topic Modeling, and Sentiment Analysis of a Large,

- Multilingual Social Media Database. *Journal of Medical Internet Research*, 25, e45108.
- Aghababaeian, H., Ostadtaghizadeh, A., Ardalan, A., Asgary, A., Akbary, M., Yekaninejad, M. S., ... & Stephens, C. (2023). Mortality risk related to heatwaves in Dezful City, southwest of Iran. *Environmental health insights*, 17, 11786302231151538.
- Ogbuokiri, B., Ahmadi, A., Mellado, B., Wu, J., Orbinski, J., Asgary, A., & Kong, J. (2022, December). Can Post-vaccination Sentiment Affect the Acceptance of Booster Jab? In *International Conference on Intelligent Systems Design and Applications* (pp. 200-211). Cham: Springer Nature Switzerland.
- Nia, Z. M., Asgary, A., Bragazzi, N., Mellado, B., Orbinski, J., Wu, J., & Kong, J. (2022). Nowcasting unemployment rate during the COVID-19 pandemic using Twitter data: The case of South Africa. *Frontiers in Public Health*, 10, 952363.
- Alavinejad, M., Mellado, B., Asgary, A., Mbada, M., Mathaha, T., Lieberman, B., ... & Kong, J. D. (2022). Management of hospital beds and ventilators in the Gauteng province, South Africa, during the COVID-19 pandemic. *PLOS global public health*, 2(11), e0001113.
- Bragazzi, N. L., Garbarino, S., Puce, L., Trompetto, C., Marinelli, L., Currà, A., ... & Kong, J. D. (2022). Planetary sleep medicine: Studying sleep at the individual, population, and planetary level. *Frontiers in Public Health*, 10, 1005100.
- Possik, J., Azar, D., Solis, A. O., Asgary, A., Zacharewicz, G., Karami, A., ... & Wu, J. (2022). A distributed digital twin implementation of a hemodialysis unit aimed at helping prevent the spread of the Omicron COVID-19 variant. 2022 IEEE/ACM 26th International Symposium on Distributed Simulation and Real Time Applications (DS-RT), Alès, France, September 2022, 168–174.
- Asgary, A., Solis, A., Khan, N., Wimaladasa, J., & Sabet, M. (2022, September). Emergency Calls in the City of Vaughan (Canada) During the COVID-19 Pandemic: A Spatiotemporal Analysis. In *4th International Conference on Advanced Research Methods and Analytics (CARMA 2022)* (pp. 197-204). Editorial Universitat Politècnica de València.
- Assari Arani, A., Asgary, A., Mozayani, A., & Akbari, N. (2022). The Pathology of Financial Misalignment in Iran's Pension System Considering Emerging Diseases and Population Aging Phenomenon. *The Economic Research*, 22(3), 1-27.
- Tofighi, M., Asgary, A., Tofighi, G. *et al.* Estimating social contacts in mass gatherings for disease outbreak prevention and management: case of Hajj pilgrimage. *Trop Dis Travel Med Vaccines* 8, 19 (2022). <https://doi.org/10.1186/s40794-022-00177-3>
- Possik, J., Asgary, A., Solis, A. O., Zacharewicz, G., Shafiee, M. A., Najafabadi, M. M., ... & Wu, J. (2022). An Agent-Based Modeling and Virtual Reality Application Using Distributed Simulation: Case of a COVID-19 Intensive Care Unit. *IEEE Transactions on Engineering Management*.
- Baky Haskuee, M., & Asgary, A. (2022). Environmental risk of Covid-19 recovery. *Energy & Environment*, 0(0).
- Lamichhane, A., Rezaei-Zare, A., & Asgary, A. (2022, June). Optimal Placement of GIC Blocking Devices Considering Transformer Thermal Limit Using Surrogate Optimization. In *2022 IEEE International Conference on Environment and Electrical Engineering and 2022 IEEE Industrial and*

- Commercial Power Systems Europe (EEEIC/I&CPS Europe)* (pp. 1-6). IEEE.
- Ghasemi, N., Safavi, A., Saremi, H. R., & Asgary, A. (2022). Intelligent traffic control based on a combined model of Fuzzy logic and Reinforcement learning. *Journal of Transportation Research*.
- Razavi, S. A., Asgary, A., & Khaleghi, M. (2022). The Impact of the Covid-19 Pandemic on Iranian Oil and Gas Industry Planning: A Survey of Business Continuity Challenges. *International Journal of Disaster Risk Science*, 1-10.
- Asgary, A., Blue, H., Cronemberger, F., & Ni, M. (2022, May). Simulating a Hockey Hub COVID-19 Mass Vaccination Facility. In *Healthcare* (Vol. 10, No. 5, p. 843). Multidisciplinary Digital Publishing Institute.
- Han, Q., Bragazzi, N. L., Asgary, A., Orbinski, J., Wu, J., & Kong, J. D. (2022). Estimation of epidemiological parameters and ascertainment rate from early transmission of COVID-19 across Africa. *Available at SSRN 4131409*.
- Assari Arani, A., Asgary, A., Mozayani, A., & Akbari, N. (2022). The Pathology of Financial Misalignment in Iran's Pension System Considering Emerging Diseases and Population Aging Phenomenon. *The Economic Research*, 22(3), 1-27.
- Avusuglo, W., Han, Q., Woldegerima, W. A., Bragazzi, N. L., Ahmadi, A., Asgary, A., ... & Kong, J. D. (2022). COVID-19 and malaria co-infection: do stigmatization and self-medication matter? A mathematical modelling study for Nigeria. *A mathematical modelling study for Nigeria (April 21, 2022)*.
- Bonadonna, C., Asgary, A., Romerio, F., Zulemyan, T., Frischknecht, C., Cristiani, C., ... & Ricciardi, A. (2022). Assessing the effectiveness and the economic impact of evacuation: the case of the island of Vulcano, Italy. *Natural Hazards and Earth System Sciences*, 22(3), 1083-1108.
- Ajulo, O., Adams, I., Asgary, A., Tang, P., & Von-Meding, J. (2022). Modelling the Roles of Community-Based Organisations in Post-Disaster Transformative Adaptation. *GeoHazards*, 3(2), 178-198.
- Asgary, A., Blue, H., Solis, A. O., McCarthy, Z., Najafabadi, M., Tofighi, M. A., & Wu, J. (2022). Modeling COVID-19 Outbreaks in Long-Term Care Facilities Using an Agent-Based Modeling and Simulation Approach. *International Journal of Environmental Research and Public Health*, 19(5), 2635.
- Alavinejad, M., Mellado, B., Asgary, A., Mbada, M., Mathaha, T., Lieberman, B., ... & Kong, J. D. (2022). Management of Healthcare Resources in the Gauteng Province, South Africa, During the COVID-19 Pandemic. *South Africa, During the COVID-19 Pandemic (March 3, 2022)*.
- Ghasemi, N., Safavi, A., Saremi, H. R., & Asgary, A. (2022). Assessing the impact of Internet of Things (IoT) on urban multi-modal mobility for optimal routing: A meta-review. *International Journal of Transportation Engineering*, 10(1), 919-945.
- Tofighi, M., Asgary, A., Tofighi, G., Najafabadi, M., Arino, J., Amiche, A., ... & Wu, J. (2022). Estimating Social Contacts in Mass Gatherings for Disease Outbreak Prevention and Management (Case of Hajj Pilgrimage).
- Nah, K., Chen, M., Asgary, A., McCarthy, Z., Scarabel, F., Xiao, Y., ... & Wu, J. (2022). Optimal Staged Reopening Schedule Based on ICU Capacity: A Model-Informed Strategy. In *Mathematics of Public Health* (pp. 303-321). Springer, Cham.
- Mohammadi, A., Park, P. Y., Asgary, A., Mukherjee, A., & Liu, X. (2022). Internet-of-

- Things System to Protect Police Officers From Collisions While on Duty on the Roadway. *Transportation Research Record*, 03611981221076848.
- Nia, Z., Ahmadi, A., Bragazzi, N.L., Woldegerima, W.A., Mellado, B., Wu, J., Orbinski, J., Asgary, A. and Kong, J.D., 2022. A Cross-Country Analysis of Macroeconomic Responses to COVID-19 Pandemic Using Twitter Sentiments. *Available at SSRN 4001976*.
- Bonadonna, C., Frischknecht, C., Menoni, S., Romerio, F., Gregg, C.E., Rosi, M., Biass, S., Asgary, A., Pistoiesi, M., Guobadia, D. and Gattuso, A., 2021. Integrating hazard, exposure, vulnerability and resilience for risk and emergency management in a volcanic context: the ADVISE model. *Journal of applied volcanology*, 10(1), pp.1-34.
- Asgary, A., Cojocar, M.G., Najafabadi, M.M. and Wu, J., 2021. Simulating preventative testing of SARS-CoV-2 in schools: policy implications. *BMC Public Health*, 21(1), pp.1-18.
- Aixia, M., Aidi, Z., Asgary, A. and Normand, A., 2021, November. An Agent Based Modelling Approach for Dynamic Risk Modelling in Emergency Response. In *2021 IEEE International Conference on Emergency Science and Information Technology (ICESIT)* (pp. 290-293). IEEE.
- Tofighi, M., Asgary, A., Merchant, A.A., Shafiee, M.A., Najafabadi, M.M., Nadri, N., Aarabi, M., Heffernan, J. and Wu, J., 2021. Modelling COVID-19 transmission in a hemodialysis centre using simulation generated contacts matrices. *PLoS one*, 16(11), p.e0259970.
- Aghababaeian, H., Ostadtaghizadeh, A., Ardalani, A., Asgary, A., Akbary, M., Yekaninejad, M.S., Sharafkhani, R. and Stephens, C., 2021. Effect of Dust Storms on Non-Accidental, Cardiovascular, and Respiratory Mortality: A Case of Dezful City in Iran. *Environmental health insights*, 15, p.11786302211060152.
- Ajulo, O., Asgary, A., Tang, P. and Von-Meding, J., 2021. Modelling transformative adaptation: Case of post-earthquake Lyttelton, New Zealand. *Environmental Science & Policy*, 125, pp.247-262.
- Daddoust, L., Asgary, A., McBey, K.J., Elliott, S. and Normand, A., 2021. Spontaneous volunteer coordination during disasters and emergencies: Opportunities, challenges, and risks. *International Journal of Disaster Risk Reduction*, 65, p.102546.
- Asgary, A., Najafabadi, M.M., Wendel, S.K., Resnick-Ault, D., Zane, R.D. and Wu, J., 2021. Optimizing planning and design of COVID-19 drive-through mass vaccination clinics by simulation. *Health and Technology*, 11(6), pp.1359-1368.
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- Asgary A., (1992), The Role of Cooperative Companies in Distribution of Commodities, Monthly Journal of Commerce Investigations, 77.
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- Asgary A., (1991), The Impacts of New Exchange Rate Policy on Government's Budget, Monthly Commerce Review, 56.
- Asgary A., (1991), Inflation and Distribution of Commodities, Monthly Commerce Review, 51.
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- Asgary A., (1990), The Role of Cooperative Companies in Foreign Trade, Monthly Commercial Review, 46.
- Asgary A., (1990), Structural Changes in Domestic Trade, Monthly Commerce Review, 38.
- Asgary A., (1990), A Review of Terms of Trade and Its Changes in Iran, Monthly Commerce Review, 36.
- iv) **Executive and Editorial positions**
Editorial Board, International Journal of Disaster Risk Reduction, 2010-Now.
Editorial Board, Journal of Disaster and Emergency Research, 2018-Now.
Journal of Rural Research, 2015-Now.
Journal of Occupational Health, 2014-Now

President, International Association of Emergency Managers-Canada, July 2007-2009.

IAEM Global Board Member, July 2007-2009.

Director, Membership and Marketing Committee, IAEM Global, September 2008-2009.

Member, IAEM Bulletin, November 2009.

Member IAEM Scholarship Commission, November 2008-2009.

Editorial Advisory Board, International Journal of Environmental Research, Published by Tehran University, 2006-present.

Editorial Board, *The Quarterly Journal of Geographic Research*, Published by the Geographic Institute, University of Tehran. 2007-now.

Editorial Board, Urban Management (Modiriati Shahri), Published in Persian, 2010-2015.

Editorial Board, the Quarterly Journal of the Economic Research, Published by the Economic Research Institute, Tarbiat Modares University, 2002-2006.

Editorial Board, Urban Form Magazine, Published in Persian in Tehran.

Editorial Board, Geographic Research Journal, Published by Tehran University.

v) **Journal Referee**

Journal of Homeland Security and Emergency Management

International Journal of Disaster Risk Reduction

Disaster Prevention and Management

IEEE Transactions on Engineering Management

Geosciences

Remote Sensing

Sensors

Pols One

Sustainability

Fire Safety Journal

Journal of Transportation Geography

Housing Studies

Environmental Hazards

Natural Hazards

Tourism Management

IEEE Conferences

Forum for Health Economics & Policy

Journal of Construction Management and Economics

Journal of Environmental Management

Nameh Honar

Disasters

Health Policy

The Quarterly Journal of the Economic Research

Modares Humanities Journal

Journal of Humanities

Geoscience

Journal of Transport Geography

vi) **Reviewer on External Grants & Awards**

Public Safety Canada, 2018

SSHRC, 2013, 2014, 2017, 2018

CIHR, 2016, 2017, 2018

MARSDEN FUND, New Zealand, 2017

Nazarbayev University, 2017

ORF, 2017

Public Safety and Emergency Preparedness Canada Research Fellowships, Administered by the AUCC, 2007, 2008.

iv) Papers and Presentations in Conferences, Seminars, and Workshops

Possik, J., Gorecki, S., Asgary, A., Solis, A.O., Zacharewicz, G., Tofighi, M., Shafiee, M.A., Merchant, A.A., Aarabi, M., Guimaraes, A. and Nadri, N., 2021, September. A distributed simulation approach to integrate AnyLogic and unity for virtual reality applications: case of COVID-19 modelling and training in a dialysis unit. In *2021 IEEE/ACM 25th International Symposium on Distributed Simulation and Real Time Applications (DS-RT)* (pp. 1-7). IEEE.

Adriano O. Solis, Jenaro Nosedal-Sánchez, Ali Asgary, Francesco Longo, Deryn Rizzi, Kevin Plested, Antonio Briga, Antonella Castagna, Beatrice Zaccaro. Agent-based simulation of a fire department's response to emergency incidents: an updated model. I3M Multiconference. Lisbon, September 18-20, 2019.

Asgary, A., 2019, New Approach to Disaster Risk Assessment, 9th International Congress on Health in Emergencies and Disasters, 15-17 Jun 2019, Razi International Conference Center, Iran University of Medical Sciences, Tehran, IRAN

Asgary, A., Disaster Diplomacy: Past, Present and the Future, Borders in Public Health and Mathematical Epidemiology, The Fields Institute, University of Toronto, October 21 - 25, 2019.

Wan, C., Nosedal, A., Nosedal, J., Asgary, A., Patin, B., 2019, Construction of a Logistic Regression Model for Mutual Aid Agreement, 2019 Annual Meeting, Statistical Society of Canada, May 26-29, Calgary, Alberta.

Asgary, A., Tofighi, G., and Guimaraes, A., 2019, Earthquake smart space application: rapid risk assessment of indoor objects using artificial intelligence. United Nations Global Platform on disaster Risk Reduction, Geneva, Switzerland, May 13-17.

Roud, E., Asgary, A., Gausdal, A.H., and Carlstrom, E., 2019, Collaboration and Outcome of Emergency Management Exercises, FINTS GEOS Switzerland.

2018.

- Asgary, A., 2018, Enhancing Disaster Preparedness for Effective Emergency Response, United Nations International Conference on Space-based Technologies for Disaster Risk Reduction 24 to 26 October 2018, Beijing, China.
- Asgary, A., Nosedal-Sanchez, J., and Primiani, J., 2018, Fires and High-rise Buildings in Canadian Cities, Urban affairs Association, 48th Annual Meeting, Toronto, Ontario, Canada April 4-7, 2018
- Nosedal-Sanchez, J. Asgary, A., Solis, A., and Wu, J., 2018, Fire Response Time Variations in Urban Areas Under Normal and Large Emergencies: Case of 2013 Toronto Ice Storm and Flash Flood Emergencies. Urban affairs Association, 48th Annual Meeting, Toronto, Ontario, Canada April 4-7, 2018.
- Asgary, A., Pantin, B., and Selvadurai, A., 2018, "Managing Disaster Mutual Assistance Operations in Electricity Companies", IEEE Canada, EPC 2018, Toronto.
- Asgary, A., Faraji, M., 2018, "Disaster Mutual Assistance Simulation (DMASim) for Hydro Companies", International Multidisciplinary Modeling and Simulation Multiconference (I3M 2018). Budapest, Hungary 17 – 19 September 2018.
- Asgary, A., 2018, Holovolcano: Augmented Reality simulation of volcanic eruptions, International Multidisciplinary Modeling and Simulation Multiconference (I3M 2018). Budapest, Hungary 17 – 19 September 2018.
- Bonadonna, C., Pioli, L., Dominguez, L., Asgary, A., and Rosi, M., 2017, "Experiential learning exercises in small communities: the example of the elementary school of Vulcano Island, Italy", Cities on Volcanoes 10, Naples, Italy, September 2-7.
- Asgary, A., 2017, Agent-based simulations for disaster humanitarian interventions, 8th International Congress on Health in Emergencies and Disasters, 2017 April 22-24, Razi International Conference Center, Iran
University of Medical Sciences, Tehran, IRAN.
- Asgary A., 2017, "Developing ESRI-Based Mixed and Augmented Reality Applications for Microsoft HoloLens", ESRI Canada Education and Research Conference, University of Toronto, October 11, 2017.
- Asgary A., Pantin, B., and Selvadurai, A., 2017, "*Disaster Mutual Assistance Management Application for Canadian Electricity Companies*", ESRI Canada Education and Research Conference, University of Toronto, October 11, 2017.
- Asgary, A., 2017, HoloDisaster: Holographic disaster simulations, 2017 Global platform for disaster Risk reduction, 22-26 May, Cancun, Mexico.
- Nosedal-Sanchez, J., Asgary, A., and Solis, A., Longo, F., 2017, "MODELING AND SIMULATION OF FORCED POPULATION DISPLACEMENT FLOWS USING COLORED PETRI NETS", DHSS 2017 Proceeding, Barcelona, Spain.
- Asgary, A., Solis, A.O., Longo, F., Nosedal, J., Curinga, M.C., and Alessio, L.E.,

- "An Agent- Based Modeling and Simulation Tool for Estimation of Forced Population Displacement Flows in Iraq," *Proceedings of the 6th International Defense and Homeland Security Simulation Workshop*, Larnaca, Cyprus, September 2016, 75-81.
- Bonadonna, C., Pioli, L., Manzella, I., Dominguez, L., Asgary, A., Rosi, M., 2016, The management of a volcanic crisis: didactic exercise with elementary and middle school students of Vulcano Island, Italy. *Cities on Volcanoes 9* November 20-25, 2016, Puerto Varas, Chile.
- Asgary, A., Nosedal, J., Solis, A.O., Longo, F., Alessio, L.E., and Curinga, M.C., "Simulating the Impacts of Airport Closures on Airline Route Networks," *Proceedings of the 18th International Conference on Harbor, Maritime & Multimodal Logistics Modelling and Simulation*, Larnaca, Cyprus, September 2016, 86-92.
- Asgary A., and Yazdizadeh Z., 2016, "Mapping Heavy Urban Search & Rescue (HUSAR) Teams HUSARMAP", 2016 ESRI Toronto User Conference, Toronto Congress Centre, October 5, 2016.
- Asgary, A., and Selvadurai, A., 2016, "Dangerous Goods by Rail-Webapplication", 2016 ESRI Toronto User Conference, Toronto Congress Centre, October 5, 2016.
- Asgary A., 2016, "Small and medium enterprises and business continuity – Canada Case, York University", Conference on Disaster Risk Management, Medellín, Colombia, June 14-16, 2016.
- Asgary, A. and Lan Chung Yang, P., (2016), Simulating Campus Evacuation: Case of York University, *Proceedings of the Summer Computer Simulation Conference*, DOI: 10.22360/SummerSim.2016.SCSC.062
- Asgary A., 2016, "Business continuity, undergraduate and graduate programs – York University", Conference on Disaster Risk Management, Medellín, Colombia, June 14-16, 2016.
- Asgary A., Pantin, P., and Borowitz, J., 2015, "Developing a Mutual Aid Decision and Simulation Support Tool (MADSIM)", North Atlantic Mutual Aid Assistant Group (NAMAG) Conference, Toronto, 26-27 October, Toronto.
- Asgary A., 2015, "Simulating Disaster Mutual Assistance", 2015 AnyLogic Conference, 6-7 November, Philadelphia.
- Asgary A., 2015, "Train Derailment Simulation: Case of Toronto", Town Hall Meeting, Safe Rail Communities, August 20, Toronto.
- Asgary A., 2015, "Lac Megantic Train Derailment Disaster and Its Impacts on the Future of World Rail Transportation", 4th International Conference on Recent Advances in Railway Engineering – Tehran, May 17-18, 2015.
- Asgary, A., Ozdemir, A.I., and Gentles, C., 2015, Does Insurance Delay or Speed up the Recovery and Reconstruction Process? Evidence from Canada, 7th i-Rec Conference 2015: Reconstruction and Recovery in Urban Contexts. University College London.
- Asgary A., 2015, "HAZMAT Train Derailment Risk Modelling & Simulation: An Agent Based Approach", 4th International Conference on Recent Advances in Railway Engineering – Tehran, May 17-18, 2015.

- Asgary A., 2014, "An Agent-based dynamic risk modelling: Case of crude oil transportation by rail in urban areas", 11th Canadian Risk and Hazard Network, Toronto, October 22-24.
- Asgary A., and Karsseboom, R., 2014, "Modelling the Effectiveness of Tsunami Warning and Evacuation", 11th Canadian Risk and Hazard Network, Toronto, October 22-24.
- Asgary A. and Kingelin A., 2014, "Assessing the learning outcome of an emergency evacuation tabletop exercise", 11th Canadian Risk and Hazard Network, Toronto, October 22-24.
- Asgary A., 2014, "Transportation of Dangerous Goods by Rail, Dynamic Risk Assessment and Emergency Planning by AnyLogic: Case of Toronto", Anylogic User Conference, San Francisco, November 12-13, 2014.
- Asgary A., and Kari, D., 2014, "Simulating disaster warning and alerting effectiveness- an agent-based approach", 5th International Disaster and Risk Conference IDRC 2014, 24-28 August 2014 in Davos, Switzerland.
- Asgary A., 2014, "Dynamic Risk Assessment Using Agent-Based Modelling and ArcGIS Tracking Analyst", ESRI Canada User Conference, Toronto, October 7, 2014.
- Asgary A., 2013, "Accumulation of Risk in Time and Space: Learning from Fire and Failure Disasters", the 18th International Conference on Urban Planning, Regional Development, REAL CORP, Rome, Italy, May 20-23.
- Asgary A., and Bertie Rowell, 2013, "Post Disaster Reconstruction and World Trade Mechanisms: An Agenda for Enquiry", 6th International i-Rec Conference, Ascona, Switzerland, May 26 to 29.
- Asgary A., and Dariyoush Kari, 2013, "Media Coverage of Post Disaster Recovery and Reconstruction: Case of 2012 East Azerbaijan Earthquake", 6th International i-Rec Conference, Ascona, Switzerland, May 26 to 29.
- Asgary A., Marina Kompaniyets and Alysia Quirke, 2013, Canadian Hazard Informer: A Web GIS Hazard Information System for General Public, 2013 CIG/EOGC Joint Conference, 5-7 June 2013, Toronto, Canada.
- Asgary A., Robert Duncan, Mohummad Saad Ansari, "Mapping Airplane Crash Hazards Using Airline Traffic Data", 2013 CIG/EOGC Joint Conference, 5-7 June 2013, Toronto, Canada.
- Asgary A., Giovanna Cioffi, Hedieh Hafezi Large Scale Dynamic GIS Based Simulation and Visualization of Neighborhood Evacuation: Case of Toronto Propane Explosion
- Asgary A., "Should Emergency Kits be Mandatory?", Keynote Speech, AEMA Stakeholders' Summit 2012, November 19-20, 2012, Edmonton, Alberta.
- Asgary, A., Kong A., 2012, "Enabling small businesses to develop their business continuity plan: York University business continuity planning toolkit for small businesses", IDRC Davos August 26-30, Davos, Switzerland.
- Asgary A., 2011. "Lessons from the 21 Century's Urban Economic Development Plans", 1st Iranian Urban Economic Conference, Mashhad, Iran, 23-24 November 2011.
- Asgary, A., Kong A., 2010, "Automated Intelligent Emergency Assessment of GTA Pipeline Events", Proceedings of the 2010 8th International Pipeline Conference (IPC2010), September 27–October 1, 2010, Calgary, Alberta,

- Canada, Paper no. IPC2010-31006 pp. 413-419: doi:10.1115/IPC2010-31006.
- Asgary A., 2010, "A comparative Study of Factors Affecting Peoples Donations to the Haiti Earthquake and Flood in Pakistan", The First Waterloo Conference on "Characteristics, Risk and Management (ChaRisMa) of Natural Hazards (Dec. 1-3, 2010)
- Asgary Ali and Kong Albert, 2011, DEVELOPMENT OF AN AGENT-BASED VIRTUAL LEARNING EMERGENCY SIMULATION CENTRE, ICEMT, Budapest, Hungary, 23- 25 May 2011
- Asgary A., 2011, "Students' Perceptions of Campus Emergency Preparedness: A Survey of York University", 2011 College and University Safety Association Conference, June 16-18, Nanaimo, BC.
- Asgary A., 2010, "Small Disaster, Big Lessons: Impacts of Toronto Sunrise Propane Explosion on Local Businesses and Households", International Disaster and Risk Conference IDRC Davos 2010, Davos, Switzerland May 30 - June 3, 2010.
- Asgary Ali, 2010, "Households Willingness to Pay for Disaster and Emergency Management: Some Evidence from Canada", International Research Committee on Disasters Researchers Meeting Tuesday, July 13 -July 14, 2010, Broomfield, Colorado.
- Golshani, Z., Asgary, A., *A Spatial Econometric Analysis of Global Natural Disasters*. IVth World Conference of the Spatial Econometrics Association, Chicago, June 9–12, 2010
- Asgary Ali, 2010, "Small Disaster, Big Lessons: Impacts of Toronto Sunrise Propane Explosion on Local Businesses and Households", International Disaster and Risk Conference IDRC Davos 2010, Davos, Switzerland May 30 - June 3, 2010.
- Asgary Ali, 2010, "Spatial Patterns and Distribution of Disasters in the Organization of the Islamic Conference Member Countries", Proceedings of the 4th Congress of the Islamic World Geographers, University of Sistan & Baloochestan, April 14-17th, Zahedan, Iran.
- Asgary Ali, 2009, "Willingness to pay for Enhancing Local Disaster and Emergency Management Services: Case of Greater Toronto Residents", 04-06 Nov 2009, London, U.K.
- Asgary Ali, 2009, "*Using Real Time Virtual Environments for Disaster Simulations and Exercises*", 8th International symposium on New Technologies for Urban Safety of Mega Cities in Asia, October 15-16, Incheon, South Korea.
- Asgary Ali, 2009, "The value and importance of incorporating virtual school emergency exercises", 6th Annual Summit on Emergency & Disaster Planning for Colleges, Universities and K-12 Schools, 6-7 October, Toronto, Canada.
- Asgary Ali, Sadeghi Naini Ali, and Jason Levy, 2009, "Modeling Loss and No-Loss Fire Incidents Using Artificial Neural Network: Case of Toronto" 2009 IEEE Toronto International Conference - Science and Technology for Humanity, 24-25 September, Toronto, Canada.
- Asgary Ali, Kong Albert, and Jason Levy, 2009, "Fuzzy-JESS Expert System for Indexing Business Resiliency" 2009 IEEE Toronto International Conference-Science and Technology for Humanity, 24-25 September,

Toronto, Canada.

- Asgary A., and Ghaffari A., 2009, “*Spatial Autoregressive Modeling of Predicting Property Damaged in Fire Events*”, International ESRI User Conference”, San Diego, California, July 13 to July 17.
- Asgary A., Ghaffari A., and Kong A., 2009, “Enhancing Emergency Response to Oil and Gas Pipeline Incidents Using a Fuzzy Jess Method” 30th Canadian Symposium on Remote Sensing, Lethbridge, June 23-25.
- Asgary A., Ghaffari A., and Kong A., 2009, “Use of Web-services for Emergency Response to Oil and Gas Pipeline incidents” 30th Canadian Symposium on Remote Sensing, Lethbridge, June 23-June 25.
- Asgary Ali, 2009, “Conducting Emergency Management Exercises in Virtual Environments”, Virtual World Best Practices in Education Conference, Second Life Virtual Environment, March 27-29.
- Asgary Ali, 2009, “Applications of the Virtual Environments in Disaster and Emergency Management”, 4th International Disaster Management Conference, Tehran, March 1 and 2, 2009.
- Asgary Ali, 2009, “Business Resiliency”, 4th International Disaster Management Conference, Tehran, March 1 and 2, 2009.
- Asgary Ali, 2008, “Emergency Management & the Second Life Virtual Environment”, 56th IAEM Annual Conference, Kansas, 15th to 20th November.
- Asgary A., 2008, “Top 10 IT technologies of the 2009: Their Applications for Emergency Management”, Conference on Location Based Systems and Integrated Urban Management, Tehran, November 2008.
- Asgary A. and Mallick Sanjoy, 2008, “Spatial analysis of oil and gas related accident data to develop a framework for risk assessment and contingency planning”, International Pipeline Conference, Calgary, September 29-October 3.
- Asgary Ali, (2008), “Spatial Analysis of Fire Incidents”, 2008 OAFI Conference, Toronto, Ontario, April 27 to 30.
- Asgary Ali, (2008), “Small Businesses, IT and Business Continuity Planning”, 2008 meeting of the Academy of Business and Information Technology, Monroeville Radisson Hotel, Monroeville, USA, May 1, 2, and 3.
- Asgary Ali, (2008), “Expanding Emergency Management Education to non-Emergency Management Disciplines: Emergency Management as an Elective Course”, Homeland Security Education Summit, Washington D.C., March 2008.
- Asgary Ali, (2008), “Civil Defense and Emergency Management: Similarities and Differences and the Need for Integration”, First Civil Defense Conference, University of Tehran, Tehran, Iran, July 13-14t.
- Asgary Ali, (2008), “Managing Winter Snowstorms in Urban Areas”, 3rd International Conference on Integrated Natural Disaster Management, February 18-19, Tehran, Iran.
- Asgary Ali, (2007), “In search for Principles of Emergency Management”, 2nd International Conference on Integrated Natural Disaster Management, February 13-14, Tehran, Iran.
- Rafeian Mojtaba and Asgary Ali, (2007), “An Analysis of Temporary Resettlement After Bam Earthquake”, 2nd International Conference on Integrated Natural

- Disaster Management, February 13-14, Tehran, Iran.
- Asgary Ali, (2007), "Emergency Management for Ports" 3rd Conference on Ports Safety and Security, February 13-14, Tehran, Iran.
- Asgary Ali, (2006), "The Role of the Canadian Private Sector in Emergency Relief and Reconstruction", Fourteenth Annual CANCAPS Conference Canada in Asia Pacific: Balancing Economics and Diplomacy December 1-3, 2006, York University, Toronto, Ontario
- Asgary Ali, (2006), "Disaster and Emergency Management Education through an Elective Undergraduate Course", Second International Conference in Disaster Education, Madrid, Spain.
- Mamdoohi Amir Reza, Asgary Ali, Sharif Zadegan, Mohammad Hossien, and Ebrahimi Ahmad Reza, 2006, "Applying SDSS Using the Technique of CA to Urban Planning and Management: The Case of Sirjan City", The international conference on problem solving techniques strategies and Techniques, Tehran, Iran.
- Asgary, A. and Levy, J.K. (2006) "Advances in Technological Disaster Analysis: Case Studies of Canadian Technological Disasters", *16th World Conference on Disaster Management*, (Toronto, June 18-21, 2006).
- Asgary Ali, Badri Ali, Rafiean Mojtaba, and Hajinejad Ali, (2006), "Lost and Used Post Disaster Development Opportunities in Bam Reconstruction", I-Rec conference on Post-Disaster Reconstruction: Meeting the Stakeholders needs, May 17-18, Florence, Italy.
- Asgary Ali, Goli Ali, and Afsah-Hosseini, Fatemeh, (2006), "Applications of GIS in Debris Management", First Conference on GIS Applications in Disaster Management, Tehran, Iran.
- Asgary Ali, and Mehregan Nader, (2006), "Estimating Households' Willingness to Pay for Early Warning Systems", Third Early Warning Conference, 27-29 March, Bonn, Germany.
- Asgary Ali, (2005), "Theorizing Disaster and Emergency Management and the Governance Reform, International Conference on Issues Relating to Disaster Management: Challenges for Governance Reform in Asia, School of Law, City University of Hong Kong to be held at Hong Kong during 4-5 March 2005.
- Levy, J.K., Hipel, K.W. & Asgary, A. (2005) Disaster Planning and Management with Dynamic AHP. Eighth International Symposium of the Analytic Hierarchy Process, July 7-10, 2005, Creative Decision Foundations (Editors J.K. Levy and R. Saaty). July 7-10, 2005, University of Hawaii, Honolulu, Hawaii, USA. ISSN 1556-830X (for the CD version of ISAHP2005 Proceedings only).
- Asgary Ali, 2005, "Disaster Analyst: A GIS Based Disaster Analysis Tool", Westman GIS User Conference, Brandon, March 11.
- Asgary Ali, (2005), "Disaster Cost/Loss Data: Current Issues and Future Challenges", 2nd Toulouse-Montreal Conference: The Law, Economics and Management of Large-Scale Risks, 30 September-October 1, 2005, Montreal.
- Asgary Ali, Razani Asad, (2005), "Institutional Gaps in Transfer of Experiences in Post-disaster Housing Reconstruction", *The International Conference on*

- Geohazards, Natural Disasters and Methods of Confronting with Them*, September 27-29. Tabriz.
- Asgary Ali, and Esmaeli Akbar, (2005), "Strategic Planning and Its Applications in Emergency Management", *The International Conference on Geohazards, Natural Disasters and Methods of Confronting with Them*, September 27-29. Tabriz.
- Asgary Ali, (2005), "A Typology of Community Development Theories", Community Development Conference, Tehran, Iran.
- Asgary Ali, (2004), "Privatization of Urban Services: Needs, Methods, Obstacles and Solutions", First Conference on Municipalities and Urban Economy, June 2004, Tehran, Iran.
- Asgary Ali, (2003), "Planning Intersection: Theorizing Planning in Iran", Congress on Rural Development, June 2003, Tehran University, Tehran, Iran.
- Asgary Ali, (2003), "Prospect Theory and Its Applications in Disaster and Emergency Management", Conference on Integrated Disaster Risk Management, Kyoto, July 3-5, Japan.
- Asgary Ali, (2002), "Incorporating Environmental Degradation into Input-Output Tables Using Fuzzy Logic", Forth International Conference on Input-Output Techniques, Montreal, Canada.
- Asgary Ali, (2002), "Rural Households Willingness to Pay for Health Insurance", ARIA Annual Meeting Evolution in Risk and Insurance: Challenges and Opportunities for the Future, September 2002, Montreal, Canada.
- Asgary Ali, (2001), "The Role of Regional and Local Institutions in Regional and Local Development", Conference on New Approach in Regional Development, Tehran, Iran.
- Asgary Ali, (2001), "Developments in Planning Theory and the Iranian Urban Planning System", Oxford Planning Theory Conference, Oxford. England.
- Asgary, Ali, (2000), "Quality of Life Mapping System", Second International Conference on Quality of Life in Cities, Singapore.
- Asgary Ali, (2001), "Applications of GIS in Urban Crime Analysis and Designing Tehran's Crime Analysis System", Conference on Tehran Cultural and Anti-Cultural Development, Tehran, Iran.
- Asgary Ali, and Jadidi, Mehdi, (2001), "The Role and Place of Fire Safety in Urban Development Plans" Conference on Safety and Fire Prevention Engineering, Tehran, Iran.
- Asgary Ali, (2000), "Public Education and Urban Fire Mitigation", Fifth Congress of Urban Mayors and Managers, Tehran, Iran.
- Asgary Ali, (2000), "Response of Institutional Approach to Regional Economic Development Challenges", Seminar on the Iranian Economic Challenges for the Next Decade, Tehran, Iran.
- Asgary Ali, and Rafiean, Mojtaba, (2000), "Senior Citizens and Spatial Changes in Urban Spaces", First International Conference on Senior Citizens in Iran, Tehran, Iran.
- Asgary Ali and Jadidi Mehdi, (2000), "Urban Planning and Fire Incidents", Conference of Fire Engineering and Planning, Tehran, Iran.
- Asgary Ali, (1999), "Urban Planning Education in Iran: Past, Present and the

- Future”, Fifth International Congress of Asian Planning Schools, Seoul, Korea.
- Asgary Ali, and Goli Ali, (1999), “Iranian Regional Information Systems”, 10th Iranian Geographical Congress, Tehran, Iran.
- Asgary Ali, (1998), “Methods of Assessing the Impacts of Environmental and Planning Factors on Urban Land Prices and Their Applications”, Conference on Land and Urban Development, Tehran, Iran.
- Asgary Ali, (1998), “Employment and Poverty During Economic Stabilization: Case study of Iran”, International Conference on Earning Inequality, Unemployment and Poverty in the Middle East and North Africa, Biblos, Lebanon.
- Asgary, Ali, (1998),” Investigating the Trends in Economic Growth of Hamadan Province Using Shift-Share Analysis in the GIS Environment”, Seminar on Economic and Commercial Capabilities of Hamadan Province, University of Bu-Ali Sina, Hamadan, Iran.
- Asgary, Ali, (1998), “Lessons from Communicative Planning Theory for Development Planning”, First Conference for the Third Five-Year Iranian Development Plan, Planning and Budget Organization, Tehran, Iran.
- Asgary Ali, (1998), “A Decision Support Systems for Management of Natural Hazards Risks within the GIS Environment”, International Symposium on Information Technology and Natural Hazards’ Risk Management, 4-6 February, Bangkok, Thailand.
- Asgary Ali, (1998), “Ocean Friendly Urban Planning”, International Planning Congress: Water, Integrated Planning for Sustainable Future, Azarous, Portugal.
- Asgary Ali, and Hosseini Seyed Ali, (1997), “Private Paper Recycling Units in Tehran”, National Seminar on Solid Waste Management, Isfahan, Iran.
- Asgary Ali, (1997), “Assessing the Benefits of Planning Measures to Reduce Risks: Case of Natural Hazard Induced Risks”, 33rd World Planning Congress, Ogaki-Japan, 17-20 September 1997.
- Asgary Ali, (1997), “Impacts of Tehran Metro on the Housing Market”, Second Transportation Engineering Conference, Tehran Traffic Control Co. Tehran, Iran.
- Asgary, Ali, (1997), “Assessing the Economic Benefits of Landslides Hazards Zoning Maps”, International Institute for Seismology and Earthquake Engineering, Second Iranian Seminar on Landslides, Tehran, Iran.
- Asgary, Ali, (1996), “The Impacts of Caspian Sea Level Rise on the Coastal Cities”, International Conference on Integrated Management and Sustainable Development in Coastal Zones. Rimouski, Canada.
- Asgary, Ali, (1995), “Earthquake on the Internet: Towards a Global Earthquake Network”, International Workshop on Harnessing the Communication Revolution: Creation of a Global Disaster Network, Beijing, China.
- Willis K.G., and Asgary Ali, (1995), “Impacts of Earthquake Hazards on the Housing Market”, Proceedings of the Second International Conference in Seismology and Earthquake Engineering, Tehran, Iran.
- Asgary, Ali, (1994), “Earthquake Preparedness Planning: Using System Dynamic Modeling for Evaluating Construction Policy”, Proceedings of the 11th

- Interschool Conference, University of York, York, England.
- Asgary Ali, (1994), "System Dynamic Modeling for Urban Earthquake Risk Estimation", World Conference on Natural Hazard Reduction, Yokohama, Japan.
- Asgary, Ali, (1993), "Public Administration and Strategic Environmental Assessment for Sustainable Development", International Conference of Public Administration and Sustainable Development, Ministry of Labor, October 31, Tehran, Iran.
- Asgary Ali, (1993), "Limitations of Planning Measures for Reducing Earthquake Hazards", International Seminar on Planning and Design in Seismic Risk Areas, University of Catania, Catania, Italy.
- Asgary, Ali (1993), "Earthquake, Health and Well Being of People: A Case Study of Iranian City Regions", 29th Congress of International Society of City and Regional Planners, Glasgow, Scotland.
- Asgary Ali, (1992), "The Role of Regional Accounting in Regional Planning", Regional Accounting Seminar, Hamadan, Iran.
- Asgary Ali, (1992), "Budget Policies and Imbalance Regional Growth", Cities and People Conference, Tabriz, Iran.
- Asgary Ali, (1991), "Economic Roles of Cities in Hamadan Provinces", Hamadan in 2020 Seminar, Hamadan, Iran.

vi) Major invited contributions and/or technical reports

Technical reports

- Asgary Ali, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, "Vulcano Emergency Exercise", Exercise Director, CERG-C in collaboration with Civil Protection Ital, Vulcano Island, Italy (First-Second Week of May each year)
- Asgary Ali et al., 2002, "Estimating the Productivity of Rural Industries in Iran, Ministry of Agriculture, Iran.
- Asgary Ali et al., 2001, "Urban Fire Incidents and National Fire Education Plan", Center for Urban Planning Studies, Tehran, Iran.
- Asgary Ali, et al., 2004, "Transitory Rural Settlements in Iran", Iranian Housing Foundation, Tehran, Iran.
- Asgary Ali, et al., 2001, "Location Analysis and Location Model for the Iranian Agriculture Bank Branches and its Application Iranian Agriculture Bank Using GIS", Agriculture Bank of Iran, Tehran, Iran.
- Asgary Ali, et al., 2000, "Guidelines for Social, Economic, and Environmental Impact Assessment of Road and Rail Projects", Ministry of Roads and Transportation, Tehran, Iran.
- Asgary Ali and Hajinejad Ali, 2000, "Current and the Future Role and Place of Sistan Regional Development", Sistan Region Development Organization. Zabol, Iran.
- Asgary Ali and Ghomashchi Vahid, 1999, "Designing Regional Indexes for Fisheries Development Activities", Iranian Fisheries Company, Tehran, Iran.
- Asgary Ali, 1998, "Feasibility Analysis of GIS Applications in the Iranian Fisheries Company", Iranian Fisheries Company, Tehran, Iran.

Asgary Ali, 1997, "Modeling Rural Resettlement after Natural Disasters", Iranian Housing Foundation, Tehran, Iran.

vii) Other publications (e.g., workshops presented, other publications)

Business Continuity Workshop, Public Safety Canada, Halifax, Nova Scotia, Canada, January 15th, 2013.

Asgary Ali, and Kari Dariyoush, 2013, The Current Status of Academic and Research Journals in Disaster and Emergency Management, IAEM Bulletin, Vol. 30, No. 5, P. 1.

Asgary, Ali and Rowell, Bertie. 2011, Disasters without borders: EM and international trade, IAEM BULLETIN". v. 28 (7) p. 7

Asgary, A., and Tajaddod Nasim, 2011, "It Will Happen Again: What We Can Learn from the October 2010 Hungarian Red Sludge Disaster", IAEM Bulletin, October 2011, 28-29.

Business Continuity Workshop, Public Safety Canada, Halifax, Nova Scotia, Canada, January 15th, 2013.

Spatial Statistics in ArcGIS, 4th Congress of the Islamic World Geographers, University of Sistan & Baloochestan, April 15th, Zahedan, Iran.

Using Virtual World for Disaster and Emergency Management Training and Exercise, Workshop, International Disaster and Risk Conference IDRC Davos 2010, Davos, Switzerland June 4, 2010.

Strategic Vulnerability Assessment of Critical Infrastructure Interdependencies to Volcanic Eruptions, Politecnico di Milano, Milan, Italy, June 17, 2010, Tabletop emergency exercise developed and conducted by me for researchers and professionals involved in ENSUR Project.

Vulcano Isola Volcano Emergency Tabletop Exercise, Vulcano Island, Italy, May 21, 2010. I developed and conducted the exercise for emergency management experts and officials.

Virtual World, Virtual City, and Virtual Planning and Design, Islamic Azad University, Dubai, UAE. April 11, 2010. I was invited to present this topic for Urban Planning and Architecture faculty and students.

Virtual World, Virtual City, and Virtual Planning and Design, Tarbiat Modares University, Tehran, Iran. April 18, 2010. I was invited to present this topic for Urban Planning and Design faculty and students.

GIS as a Tool for Disaster Management, University of Geneva, Swiss, April 2010. This was a 3-hour lecture presented for participants of the professional certificate in Geological Hazards and Risks Management.

Disaster and Emergency Management, University of Geneva, Swiss, February 2010. This was a 3-hour lecture presented for participants of the professional certificate in Geological Hazards and Risks Management.

First International Virtual Emergency Exercise, York University Disaster and Emergency Virtual Lab in Second Life, May 5 and 8, 2009.

Asgary Ali, 2007, "Concept and Characteristics of Resilient Cities", Urban Planning Association, December 23, Tehran, Iran.

Asgary Ali, 2007, "Emergency Management and Public Transit", Municipalities Organization, Tehran, Iran, December 16-17.

Asgary Ali, 2007, "Emergency Management and Public Transit", Municipalities Organization, Tehran, Iran, December 18-19.

- Asgary Ali, 2007, "Emergency Management and Public Transit", Municipalities Organization, Tehran, Iran, December 20-21.
- Asgary Ali, 2007, "What Do Universities Need: Business Continuity or Emergency Management?" Emergency Management for School, Colleges and Universities Conference, Toronto, Oct. 1-2.
- Asgary Ali, 2007, "Estimating Households' Willingness to Pay for Upgraded Building Codes", International Institute of Earthquake Engineering and Seismology", Tehran, February 18.
- Asgary Ali, 2006, "Measuring the Immeasurable: Quantifying the Benefits of Mitigation", Emergency Management Ontario-York University Learning Series, November 9, Toronto.
- Asgary Ali, 2006, "Business Continuity Workshop (3-day workshop)", The Geography Institute, Tehran, University, Tehran, Iran, Summer 2006.
- Asgary Ali, 2006, "Qualitative Research Method Workshop (2-day workshop)", The Geography Institute, Tehran, University, Tehran, Iran, Summer 2006.
- Asgary Ali, 2005, "Probability Based Prediction of Earthquake in the Next 24 Hours", BBC Web site (http://www.bbc.co.uk/persian/science/story/2005/05/050519_mj-aasgari-earthquake.shtml).
- Asgary Ali, 2004, "Emergency Management Workshop for Local Governments (4-day workshop)", Economic Research Institute, Tarbiat Modares University, Tehran, Iran. Summer 2004.
- Asgary Ali, 2004, "Emergency Management Workshop for Local Governments (4-day workshop)", Economic Research Institute, Tarbiat Modares University, Tehran, Iran. Fall 2004.
- Asgary Ali, 2004, Brandon: An Emerging Hub for Disaster and Emergency Education, Science and Technology", *Ecclectica*, March 2004, Science, Published by Brandon University.
- Asgary Ali, 2004, "Business Continuity for Local Governments (1 day workshop)", Tehran Municipality, Tehran, Iran, Summer 2004.
- Asgary Ali, 2003, Critical Infrastructure, C.F.B. Shillo, November 2003.
- Asgary Ali, et al., 1997, "Planning New Functions for Old Abundant Industrial Sites of Ogaki City, Japan", Young Planners Workshop, 12-16 September, Ogaki, Japan.

ii). Invited Presentations

- Asgary Ali, 2014, "Role of Mayors in Emergency Management: Case of Calgary and Toronto Mayor", Iranian City Management Conference, May 2014, Rasht, Iran.
- Asgary Ali, 2014, "Role of Mayors and Council Members in Emergency Management", Tehran City Council, May 2014, Tehran Iran.
- Asgary Ali, 2014, "Applying the 21st Century's Principles of City Building for Delijan" May 2014, Delijan, Iran.
- Asgary Ali, 2014, "Oil Transportation Risks and Emergency Response Problems", Great Lakes Initiative, Great Lakes and St. Lawrence Cities Initiative, 2014 Annual Meeting and Conference, Thunder Bay, Ontario, June 18-20, 2014.

- Asgary Ali, 2004, "Prospect Planning Theory", Faculty of Geography, Tehran University. December 12, 2004,
- Asgary Ali, 2004, "Prospect Theory and Its Applications in Environmental Risk Management", Faculty of Environment, Tehran University, 14 December 2004.
- Asgary Ali, 2004, "Assessing Benefits of Urban Risk Mitigation Measures", 3 March 2004, Federal Department of Town and Country Planning, Malaysia.
- Asgary Ali, 2004, "Prospect Theory and Its Application in Urban Planning", 1 March 2004, Federal Department of Town and Country Planning, Malaysia.
- Asgary Ali, "Disaster Recovery Planning for Municipalities", 27 June 2004, Tehran Municipality, Iran
- Asgary Ali, 2004, "Disaster and Development: Bam Experience", 20 June 2004, Kerman University, Kerman, Iran.
- Asgary Ali, 2003, "GIS Applications in Fisheries, Fisheries Research Center", 25 July 2003, Tehran, Iran.
- Asgary Ali, 2003, "Planning Technology, Iranian Urban Planning Society", July 2003, Tehran, Iran.
- iii). Other (E.g.s. Discussant, Chairperson, Conference organizer etc.)**
- Organizer, Haiti Earthquake: Lessons Learned, York University, January 2011.
- Scientific Board, 2nd International Conference on Integrated Natural Disaster Management, February 18-19, 2008, Tehran, Iran.
- Scientific Board, 2nd International Conference on Integrated Natural Disaster Management, February 13-14, 2007, Tehran, Iran.
- Chairperson and Discussant, 2nd International Conference on Integrated Natural Disaster Management, February 13-14, 2007, Tehran, Iran.
- Chairperson and Discussant, 3rd Conference on Ports Safety and Security, February 13-14, 2007, Tehran, Iran.

Students Supervision

i) Masters

- Leo De Ruiters, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2023.
- Janithra Wimaladasa, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2022.
- Hudson Blue, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2021.
- Wondwosen Agune, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2019.
- Balru, Dumbuya, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2019.
- Crystal Wang, master of transportation Engineering, Department of civil Engineering, York University, 2019 (thesis examiner).
- Lila Dadoust, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2019.

Maryam Shafiei-Sabet, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2018.

Mukesh Chand, 2018, Master of Disaster and Emergency Management, Royal Roads University (thesis examiner).

Behnaz Bakhit, Master of Environmental Studies, Faculty of Environmental Studies, York University, 2017.

Marcin Lewandowski, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2018.

Priscilla Lan Chung Yang, Master of Environmental Studies, York University, 2016.

Luigi Emanuele Alessio, Department of Mechanical & Industrial Engineering, University of Calabria, Italy, 2016, (supervisory committee).

Wesley Lam, 2015, Master of Information Technology, School of Information Technology, York University.

Anida Ghodousi, 2015, Department of Computer Science and Engineering, Faculty of Engineering, York University.

Hedieh Hafezi, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2014.

Tyler Andrews, Master of Disaster and Emergency Management, Royal Roads University, 2014.

Mickaël Heiniger, Specialisation certificate in geological and climate related risk, CERG-C, University of Geneva, 2014.

Sepideh Hamidi, 2014, Master of Information Technology, School of Information Technology, York University (thesis committee).

Zahra Amin Nayeri, Master of Information Technology, School of Information Technology, York University (thesis examination committee).

Sepehr Pashang, Master of Information Technology, School of Information Technology, York University, 2013.

Nazir Houssain, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2013.

Deane Johanis, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2012.

Lori Latenderese, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2011.

Tannaz Zargarian, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2011.

Anjum Imtiaz, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2011.

Salma Zahedi, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University, 2011.

Issa Bartav, 2007-2008, "Spatial Analysis of Urban Crime: Case of Zahedan", Department of Geography, Sistan & Balouchestan University.

Anna Baka, Master of Disaster and Emergency Management Program, School of Administrative Studies, York University.

Soheila Rostami, Master of Disaster and Emergency Management Program, School of Administrative Studies, School of Administrative Studies, York University

Benjamin Pantin, Master of Disaster and Emergency Management Program,

- School of Administrative Studies, School of Administrative Studies, York University
- Md Abdul Halim, "Vulnerability to Cyclone in Bangladesh", Faculty of Environmental Studies, York University, 2008.
- Jeremy Paulus, "Cross Border Hazard Mitigation Planning: Case of Blue Water Bridge", Faculty of Environmental Studies, York University, 2008.
- Somayeh Mohammadi, "Post Disaster Physical Planning opportunities: Case of Bam earthquake", University of Sistan and Baloochestan, 2008.
- Zahra Asgarizadeh, "Households Preferences for Different Housing Attributed in New Housing Developments: Case of Navab Neighborhood-Tehran", Department of Urban & Regional Planning, Tarbiat Modares University, Tehran, Iran, 2008.
- Mehdi Ramezanzadeh, "Rural Residents' Preferences for Flood Mitigation Measures", Faculty of Geography, University of Tehran.
- Najmodin Rashnu, 2004, "Design and Development of a Decision Support System Using GIS and AHP: Case of Urban Renovation", Department of Urban and Regional Planning, Tarbiat Modares University.
- Khoei Ziba, 2003, "Applications of What-If Planning Support System in Regional Land Use Planning: Case of Abadeh Region", Department of Urban and Regional Planning, Tarbiat Modares University.
- Abbas Pour Eskandar, 2002, "Analysis of Urban Fire Incidents Using GIS, Case of Karaj City", Tarbiat Modares University, Department of Geography and Remote Sensing.
- Akbar Esmaeili, 2002, "Analysis of Park Deficiency in Urban Areas, Case of Tabriz", Tarbiat Modares University, Department of Urban and Regional Planning.
- Asad Razani, 2002, "Application of a GIS based Planning Support Systems (What-If?) For Sustainable Urban Growth Management", Department of Urban and Regional Planning.
- Pedram Rakhshani, 2002, "Application of Integrated Urban Land Use and Transportation Models in Urban Planning in Iran", Department of Urban and Regional Planning.
- Parvaneh Zandi, 2002, "3D GIS Simulation of Old Urban Areas and Development Scenarios", Tarbiat Modares University, Department of Geography and Remote Sensing.
- Behrad Khalil Khah, 2001, "Designing an Object-Oriented GIS for Urban Planning Indices", Tarbiat Modares University, Department of Geography and Remote Sensing.
- Mehdi Mir Shafie, 2001, "Designing Balanced City Districting: Case of Tehran", Tarbiat Modares University, Department of Urban and Regional Planning.
- Mehdi Jadidi, 2001, "The Role and Place of Fire Safety in Urban Development Plans", Tarbiat Modares University, Department of Urban & Regional Planning.
- Arezoo Mizban Shaker, 2001, "Modeling the Impact of Density Changes on Urban Transportation", Tarbiat Modares University, Department of Urban and Regional Planning.
- Naghmeh Behboodi, 2001, "Applications of GIS in Analysis of Historical Cities: Case Study of Bastam Historic City", Tarbiat Modares University,

Archeology.

- Reza Badr, 2000, "Applications of GIS and Remote Sensing in Urban Physical Development: Case Study of Namin", Tarbiat Modares University, Department of Geography and Remote Sensing.
- Shams Al-din Safarpour, 2000, "Identification of Road Construction Path Using GIS and Remote Sensing Methods", Tarbiat Modares University, Department of Geography and Remote Sensing.
- Tahereh Karimi, 2000, "Suitability Mapping for Tourism Development in Coastal Urban Areas Using GIS and Remote Sensing", Department of Geography and Remote Sensing.
- Hossein Hosseini, 2000, "Technical and Economic Evaluation of Bafgh Rail Project", Project and Construction Management.
- Mahmood Abdullah Zadeh, 2000, "Location Analysis of Fishing Ports Using GIS and Remote Sensing", Tarbiat Modares University, Department of Geography and Remote Sensing.
- Alireza Meraji, 1999, "Virtual Reality and Art", Tarbiat Modares University, Art Research.
- Goodarz Freidooni, 1999, "Ranking Rural Development in Kordestan Province in the GIS Environment", Tarbiat Modares University, Department of Geography and Remote Sensing.
- Ali Goli, 1998, "Designing Regional Information Systems Using GIS on the Internet: Case of Takab County", Tarbiat Modares University, Department of Geography and Remote Sensing.
- Gholamreza Mostafa Zadeh, 1997, "Social Ecology of Miandoab City", Tarbiat Modares University, Department of Geography and Remote Sensing.

ii) Doctoral

- Mohammadi, Ahmad, 2018-ongoing, Lassonde School of Engineering, Department of transportation, York University (thesis committee member).
- Oluwadunsin Ajulo, 2018-ongoing, School of Architecture and the Built Environment, niversity of Newcastle, Australia, (thesis committee member).
- Masoud Zamanipoor, 2019-ongoing, Tehran, Iran, Department of Health in Disasters, School of Public Health Tehran University of Medical Sciences.
- Ayub Pazhouhan, Department of Management and Entrepreneurship, Faculty of Social sciene Kermanshah, Iran, 2018-2021.
- Thi Dieu Chinh Luu, 2018, School of Architecture and the Built Environment University of Newcastle, Australia, (thesis external examiner).
- Sandra Elvin, 2014, Faculty of Environmental Studies, York University (thesis examination committee).
- Lisa Farnell, 2015, Department of Mathematics, York University (thesis examination committee).
- Golshani Zahra, 2009-ongoing, "Preferences for Adaptation to Climate Change", University of Illinois at Urbana-Champaign, USA.
- Majid Parishan, 2011, Tarbiat Modares University. Department of Geography and Rural Planning.
- Mohammad Reza Rezaei, 2011, "Determining Urban Social Resilience: Case of Tehran Metropolitan Area Tarbiat Modares University. Department of Geography and Urban Planning.
- Ali Goli, 2002, "Analysis of Transitional Rural Settlements in Iran using Fuzzy

Logic”, Tarbiat Modares University. Department of Geography and Rural Planning.

Jafar Ghaderi, 2002, “Modeling Home Ownership in Urban Areas of Iran”, Tarbiat Modares University. Department of Economics.

Nemat Akbari, 2001, “Spatial Analysis of Social Demand for Higher Education in Iran”, Tarbiat Modares University, Department of Economics.

Ali Hajinejad, 2001, Institutional Analysis of Sistan Regional Development Organization’, Tarbiat Modares University, Department of Geography and Rural Planning.

iii) Post-Doctoral

Mohammadali Tofighi, ADERSIM, Disaster & Emergency Management, York University, 2019-2023.

Ali Baligh, ADERSIM, Disaster & Emergency Management, York University, 2023-2024.

Koorosh Attarian, ADERSIM, Disaster & Emergency Management, York University, 2023-2024.

Jenaro Nosedal Sanchez, Disaster & Emergency Management, York University, 2016-2018

Alireza Ghaffari, Disaster & Emergency Management, York University, 2008-2010.

COURSES TAUGHT

i) Undergraduate

Fundamentals of Emergency Management

Field Placement

Business Continuity Planning

Directed Reading in Applied Disaster and Emergency Studies

Directed Studies in Applied Disaster and Emergency Studies

Introduction to Physical Planning and Critical Infrastructure

Emergency Planning and Management

Emergency Management Laws & Regulations

Disaster and Development

Disaster and Emergency Practicum

Conflict Resolution

Conceptual and Applied Issues in Disaster Studies

ii) Graduate

Topics in Business Continuity

Advanced Disaster and Emergency Management

Research Methods in Disaster and Emergency Management: Quantitative Methods

Directed Readings

Individual Directed Study, Faculty of Environmental Studies

Principles and Methods of Regional Planning

Physical Planning of Rural Settlements

Spatial Econometrics

Urban and Regional Models

Regional Planning Methods

Urban Planning Methods
Planning Theory
Computer Applications in Urban Planning
GIS Applications in Urban Planning
Urban Economics
Spatial Economics
GIS Applications in Rural Planning
Computer Applications in Project Management
Financial Management of Projects

UNIVERSITY SERVICE

i) Internal: University level

Senate's Appeals Committee, York University, 2013-2015
Senate's Ad-Hoc Committee, York University, 2013-2015. Chair and Member, 2011-2014.
Senate Ad Hoc Committee, 2005-2009.
Brandon University Senate, January 2005 to July 2005.
Senate Library Committee, Brandon University, 2004-2005.
Brandon University Research Committee, January 2004-July 2005.

ii) Internal: Faculty Level

Executive Committee of the Council, Faculty of Liberal Arts and Professional Studies, York University, 2014-2016.
Academic Honesty, Faculty of Liberal Arts and Professional Studies, York University, 2013- 2014.
Petition Committee, Faculty of Graduate Studies, York University, 2013-2015. Member, LA&PS Petition Committee, 2010-2012, York University.
Vice Chair, Atkinson Faculty Council, York University, July 2005-2009.

iii) Internal: School/Department level

Executive Director, Advanced Disaster, Emergency & Rapid Response Simulation, York University, 2015-present.
Area Coordinator, Bachelor of Disaster & Emergency Management, York University, 2013-2017.
Hiring Committees, School of Administrative Studies, 2014, 2015, 2017
Research Committee, School of Administrative Studies, York University. 2016-2018.
Graduate Program Director, Disaster and Emergency Management, York University, 2010-2013.
International Committee, School of Administrative Studies, 2014-2016. File Preparation Committee, School of Administrative Studies, 2014.
Tenure and Promotion Committee, School of Administrative Studies, 2014-2016. Undergraduate Area Coordinator, Bachelor of Disaster and Emergency Management, School of Administrative Studies, York University, 2013-2015.
Graduate Program Director, Master of Disaster and Emergency Management Program, 2010- 2013.
Member, Teaching and Training Committee, School of Administrative Studies, York University, July 2007-2009.

Member, Research Committee, School of Administrative Studies, York University, July 2007- 2009.

Member, Emergency Management Program Advisory Committee, York University, 2005-Now. Lead Proponent, Proposal for Master of Arts in Disaster and Emergency Management. School of Administrative Studies, York University, 2006 –2007.

Member, A-DES (Applied Disaster and Emergency Management) Advisory Committee, Brandon University, 2003-2005.

Member, Economic Research Institute Research Committee, Tarbiat Modares University, 1998- 2002.

Chair, Department of Applied Disaster and Emergency Studies, Brandon University, 2004-2005.

iv) External/community service

President, International Association of Emergency Managers – Canada, July 2007-2009. Board Member, International Association of Emergency Managers, July 2007-2009.

Member, Program Committee Marquis Project (NGO), Brandon Manitoba, 2004-2005. Volunteer, Brandon Correction Services, Brandon, Manitoba, 2003-2005.

PROFESSIONAL MEMBERSHIP

International Association of Emergency Managers (IAEM)

Ontario Association of Emergency Managers (OAEM)

Disaster Recovery Information Exchange (DRIE)

Canadian Risk and Hazard Network (CRHNet)

ICOMOS Canada

Aerial Evolution Association of Canada

IEEE

International Society of City & Regional Planners (ISOCARO)

HONOURS & AWARDS

Dean's Award for Research Excellence (DARE), 2020, Faculty of Liberal & Professional Studies, York University.

York University Research Leaders Award, 2019, York University.

York University Research Leaders Award, 2015, York University.

Outstanding Paper of 2014, Journal of Disaster Prevention and Management International Association of Emergency Managers, Award for Public Awareness, 2012.

Certificate of Recognition, Outstanding Contribution to Teaching and Learning & The Student Experience, May 2012. York University.

Merit Award, York University, 2012, 2011, 2010, 2009, 2008, 2007.

International Association of Emergency Managers, 2008.

Ministry of Higher Education Scholarship, Ministry of Higher Education-Iran, 1987- 1989.

Ministry of Higher Education Scholarship, Ministry of Higher Education-Iran, 1993- 1996.

Distinguished Master Students of the Year, Ministry of Higher Education-Iran, 1991.

IOI Training Program Scholarship, International Ocean Institute, 1997.

Distinguished Researcher of the Year, Urban Studies Institute, Iran, 2003.