

Mahdi M. Najafabadi

EDUCATION

- 2020 PhD in Information Science, University at Albany, State University of New York (SUNY)
- 2014 Master of Public Administration, University at Albany, SUNY
- 2007 Master of Business Administration, Sharif University of Technology
- 2004 Bachelor of Computer Engineering, University of Tehran

TEACHING EXPERIENCE

- 2019 – 2022 Invited Instructor, International Business School (IBS) and Intensive English Language Program (IELP) by the Massry Center for Business, University at Albany, NY
 - **Competitive Project Management** (9-Day Crash-Course Workshop)
- 2019 – 2020 Visiting Assistant Professor, Massry Center for Business (School of Business), Department of Information Systems and Business Analytics University at Albany, NY
 - **Managing Information Technology** (MBA)
 - **Data Analytics in Business** (ITM Undergrad)
 - **Business Systems Analysis and Design** (ITM Undergrad)
 - **Advanced Excel with VBA**
 - **Information Technology for Business** (ITM Undergrad)
- 2014 – 2018 Course Designer and Instructor of Record, Information Science (Informatics) Department, University at Albany, NY
 - **IT Project Management** (INF Undergrad)
- 2015 – 2016 Teaching Assistant, Informatics, University at Albany, NY
 - **Information in the 21st Century** (INF 100 – Undergrad)
 - **Introduction to Data and Databases** (INF 021 – Undergrad)
 - **Business Dynamics and Simulation Modeling** (ITM 624 – Grad)

SELECT WORK HISTORY

- 2020 – 2022 Postdoctoral Research Associate, Center for Systems and Community Design, School of Public Health, City University of New York (CUNY)
- 2020 – 2021 Research Consultant, York University – *Part Time*
- 2014 – 2019 Graduate Assistant, Department of Informatics, University at Albany, SUNY
- 2017 – 2017 Student Assistant, New York State Office of the Information Technology Services
- 2012 – 2013 Graduate Research Assistant, Center for Technology in Government (CTG)
- 2010 – 2012 Senior Program Manager (Process Engineering BPI/BPR), TOSAN
- 2009 – 2010 Management Consultant (Project Management IT Solutions), Tadbir-Omran Engineering
- 2008 – 2009 Management Consultant (Project Management Process Reengineering), ACECR JD-Nasir
- 2004 – 2008 Team Lead / Program Manager / Managing Director / Product Manager, ASHNA Secure

SELECT PUBLICATIONS AND PRESENTATIONS

Peer Reviewed Journal Publications

- Accepted (Upcoming)** Tofighi, M., Asgary, A., Merchant, A., Shafiee, M., Najafabadi, M. M., Naderi, N., Arabi, M., Heffernan, J., Wu, J.; Modelling COVID -19 Transmission in a Hemodialysis Center Using Simulation Generated Contacts Matrices. *PLOS ONE*.

- 2021** Karami, A., Zhu, M., Goldschmidt, B., Boyajieff, H. R., & Najafabadi, M. M. [COVID-19 Vaccine and Social Media in the U.S.: Exploring Emotions and Discussions on Twitter](#). *Vaccines*, 9(10), 1059.
- 2021** Asgary, A., Najafabadi, M. M., Wendel, S. K., Resnick-Ault, D., Zane, R. D., & Wu, J. [Optimizing planning and design of COVID-19 drive-through mass vaccination clinics by simulation](#). *Health and Technology*.
- 2021** Valtchev, S. Z., Asgary, A., Chen, M., Cronemberger, F. A., Najafabadi, M. M., Cojocar, M. G., & Wu, J. [Managing SARS-CoV-2 Testing in Schools with an Artificial Intelligence Model and Application Developed by Simulation Data](#). *Electronics*, 10(14), 1626.
- 2021** Asgary, A., Cojocar, M., Najafabadi, M., Wu, J., [Simulating Preventative Testing of SARS-CoV-2 in Schools: Policy Implications](#). *BMC Public Health*, 21(1), 125.
- 2021** Asgary, A., Valtchev, Z., Chen, M., Najafabadi, M., Wu, J., [Artificial Intelligence Model of Drive Through Vaccination Simulation](#). *International Journal of Environmental Research and Public Health*. Special Issue: Big Data and Mathematical Modeling in Biomedicine.
- 2020** Asgary, A., Najafabadi, M., Karsseboom, R., Wu, J.; [A Drive-through Simulation Tool for Mass Vaccination during COVID-19 Pandemic](#). *Healthcare* 8(4):469.
- 2019** Luna-Reyes, L. F., & Najafabadi, M., [The US open data initiative: The road ahead](#). *Information Polity*, 24(2), 163–182.
- 2018** Najafabadi, M., Domanski, R. J., [Hacktivism and Distributed Hashtag Spoiling on Twitter: Tales of the #IranTalks](#), *First Monday*, 23(4).

Conference Proceedings and Presentations

- 2021** Najafabadi, M., Asgary, A., Tofighi, M. A., Shafiee, M., Ma, P.; [A Two-Stage Hybrid Simulation Method to Model Disease Transmission through Calculating a Contacts Matrix: The Case of an ICU](#). *2021 International System Dynamics Conference*.
- 2019** Harrison, T., F. Luna-Reyes, L., Pardo, T., De Paula, N., Najafabadi, M., & Palmer, J., [The Data Firehose and AI in Government: Why Data Management is a Key to Value and Ethics](#). *Proceedings of the 20th Annual International Conference on Digital Government Research* (pp. 171–176). UAE, Dubai: ACM Press.
- 2017** Najafabadi, M., & Luna-Reyes, L. F.; [Open Government Data Ecosystems: A Closed-Loop Perspective](#). *Proceedings of the 50th Hawaii International Conference on System Sciences* (pp. 2711–2720). Waikoloa Village, HI: IEEE Computer Society.
- 2017** Najafabadi, M.; [A Research Agenda for Distributed Hashtag Spoiling: Tales of a Survived Trending Hashtag](#). *Proceedings of the 18th Annual International Conference on Digital Government Research* (pp. 21–29). Staten Island, NY: ACM Press.
- 2015** Najafabadi, M., Bahaddin, B., Feyzibehnagh, R. Deegan, M., Andersen, D. F., Luna-Reyes, L. F., Macdonald, R., Rich, E.; [A Learning Science Protocol for Evaluation of a Sustainability-based Learning Environment](#). *The 33rd International System Dynamics Conference*, Cambridge, MA.
- 2015** Najafabadi, M., et al.; [Empowering Sustainable Decision Making: CoastalProtectSim in Action](#). *Proceedings of the 16th Annual International Conference on Digital Government Research* (pp. 340–342). Phoenix, AZ: ACM Press.
- 2013** Najafabadi, M., et al.; [Revitalizing the capital district leveraging a regional code enforcement repository](#). *Proceedings of the 14th Annual International Conference on Digital Government Research* (pp. 275–276). Quebec City, Canada: ACM Press.

Books and Book Chapters

- 2020** Najafabadi, M., Modeling an Open Data Ecosystem: The Case of Food Service Establishments Inspection in New York State, State University of New York at Albany [PhD Thesis]
- 2016** Sayogo, D. S., Najafabadi, M., Tayi, G. K., & Pardo, T. A.; [Privacy, Confidentiality, and Security Challenges for Interoperable Data Platforms in Supply Chains](#). In H. Jarman & L. F. Luna-Reyes (Eds.), *Private Data and Public Value*. Springer International Publishing.

Public Webinars and Joint Presentations

- 2021** Generating A Simulation-based Contacts Matrix for Disease Transmission Modelling at Special Settings using AnyLogic simulation modeling software platform at the *26th International Computer Conference Computer Society of Iran*
- 2020** Drive-Through Mass Vaccination Clinic Simulation Model. Presented at the COVID-19 Math Modelling Seminar, by *The Fields Institute for Research in Mathematical Sciences*.
- 2020** Drive-Through Mass Vaccination Clinic Simulation Model. Presented at the COVID-19 Modelling Webinar Series, by *The Council for Scientific and Industrial Research (CSIR)*, South Africa.

Instructed and Facilitated Workshops

- 2021** Understanding the effectiveness of Good Samaritan Laws in the State of Connecticut through System Dynamics Modeling Group Model Building (GMB) with Field Experts (Five different sessions with public servants from different professions)
- 2020** Project Management Institute's Upstate New York Branch (PMIUNY) Project Management Professional (PMP) Preparation workshop (Topic: Project Cost Management)
- 2020** University at Albany's Intensive English Language Program (IELP) and School of Business's winter session (3 weeks) on Corporate Project Management (CPM)
- 2019** PMIUNY's PMP Preparation workshop (Topic: Project Cost Management)
- 2019** University at Albany's IELP and School of Business's winter session (3 weeks) on (CPM)
- 2018** University at Albany's School of Business Workshop for the Evening MBA (EMBA) Program
- 2017** University at Albany's School of Business Workshop for the EMBA Program
- 2016** Massachusetts Institute of Technology (MIT) Sloan School of Business MBA Program Orientation Workshop on Systems Thinking and Business Dynamics
- 2016** University at Albany's School of Business Workshop for the EMBA Program

Departmental / Focused Group Research Presentations

- 2021** Agent-Based Simulation of COVID-19 Transmission in an Intensive Care Unit and the Resulting Contacts Matrix for the Toronto General Hospital at the internal meeting of Toronto General Hospital's Management Team
- 2021** Systems Science Simulation Model's Interactive Interface Decision-Support Tool on How to Intervene to Reduce Opioid Use Disorder (OUD) and Its Corresponding Fatalities at the meeting with New York State's Cayuga County and Columbia County public health officials
- 2021** Systems Science Simulation Model's Interactive Interface Decision-Support Tool on How to Intervene to Reduce OUD and Its Corresponding Fatalities at the Helping to End Addiction Long-term (HEAL) Data Dashboard meeting

- 2021** A Drive-through Simulation Tool for Mass Vaccination during COVID-19 Pandemic at the joint session of York University's ADERSIM and Pathmind's Reinforcement Learning team
- 2021** Systems Science Simulation Model's Interactive Interface Decision-Support Tool on How to Intervene to Reduce OUD and Its Corresponding Fatalities at the New York State's HEALing Communities Study (HCS) Data Workgroup meeting
- 2021** Systems Science Simulation Model's Interactive Interface Decision-Support Tool on How to Intervene to Reduce OUD and Its Corresponding Fatalities at the NIH HCS Consortium
- 2021** Systems Science Simulation Model's Interactive Interface Decision-Support Tool on How to Intervene to Reduce OUD and Its Corresponding Fatalities at the New York State's HEAL Initiative Steering Committee
- 2020** A Drive-through Simulation Tool for Mass Vaccination during COVID-19 Pandemic at the joint session of York University's ADERSIM and the Artificial Intelligence modeling group
- 2020** Agent-Based Simulation of COVID-19 Transmission in an Intensive Care Unit: The Case of the Toronto General Hospital at the joint simulation modelers session of York University's ADERSIM and the Department of Mathematics & Statistics
- 2018** Modeling an Open Data Ecosystem – A Dynamic Theory of the Foodservice Establishments Case. Presented at the 37th System Dynamics Colloquium, Massachusetts Institute of Technology (MIT).
- 2017** Modeling an Open Data Ecosystem – A Research in Progress. Presented at the New Trends in Informatics Research (NTIR), University at Albany.
- 2016** A Proposal for Modeling an Open Data Ecosystem. Presented at the New Trends in Informatics Research (NTIR), University at Albany.
- 2015** IT Management Traps: What to consider as a manager in an IT service provider. Presented at the Informatics Brownbag Series, University at Albany.
- 2014** Possibilities in the Age of Big Data – Examining the Public Value Potential of Novel Use of Log File Data. Presented at the Meeting of NYS ITS public sector "Cluster CIOs Meeting".

VOLUNTEERED SERVICE

- 2017 – 2021** Reviewed research/practice papers for the *Journal of Information Science*; *First Monday*; *ACM Health*; *Informatics*; *Information Processing and Management*; the *International Journal of Libraries and Information Studies*; the *Americas Conference on Information Systems (AMCIS)*; and the *International Conference of System Dynamics (ISDC)*
- 2017 & 2020** Facilitated Project Management Professional (PMP) certification preparation workshop for the Project Management Institute Upstate New York (PMIUNY) chapter
- 2015 & 2018** Systems Thinking Workshop, School of Business Executive MBA program, University at Albany
- 2015** Organized the Nessw Trends in Informatics Research (NTIR) seminar in University at Albany
- 2015** Presented an introductory to algorithms and programming seminar (for PhD peers)
- 2013 – 2016** Organized three semi-annual UAlbany-WPI-MIT System Dynamics colloquiums
- 2012 – 2017** Volunteered in scientific and field-specific conferences (AMCIS, ISDC, DG.O, ICEGOV, etc.)

SELECT PROFESSIONAL CERTIFICATIONS

- + *CompTIA Security+*
- + *Project Management Professional (PMP)*
- + *IT Infrastructure Library (ITIL) v3.0 Foundation*