

Fuzhan Nasiri, PhD

Lecturer (Assistant Professor) in Facility & Environment Management
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ACADEMIC EXPERIENCE

<i>Lecturer (Assistant Professor)</i>	Bartlett School of Graduate Studies, University College London (UCL), UK, 2011-Present
<i>Associate Research Scientist</i>	Centre for Green Chemistry & Green Engineering, Yale University, USA, 2010-2011
<i>Postdoctoral Associate</i>	Centre for Green Chemistry & Green Engineering, Yale University, USA, 2009-2010
<i>Postdoctoral Fellow</i>	Groupe d'Études et de Recherche en Analyse des Décisions (GERAD), HEC Montreal, Canada, 2007-2009
<i>Research Assistant Researcher</i>	School of Engineering, University of Regina, Canada, 2003-2007 <i>Systems Automation and Productivity Research Centre, Sharif University of Technology, Iran, 2001-2002</i>

BACKGROUND

Post-Doctoral Certificate	<i>Environmental Engineering, Yale University, USA, 2010</i>
Ph.D.	<i>Environmental Systems Engineering, University of Regina, Canada, 2007</i>
M.Sc.	<i>Industrial Systems Engineering, Sharif University of Technology, Iran, 2002</i>
B.Sc.	<i>Industrial Systems Engineering, Sharif University of Technology, Iran, 1998</i>

SERVICE

Guest Editor, Journal of Facilities Management (Emerald), Special issue on Sustainable Infrastructure Management (to appear in 2014)
Stream Organiser, The Young OR Conference (Infrastructure stream), The Operational Research Society, 9-11 April 2013.
Coordinator, UCL Infrastructure Management Research Group, 2012-present
Editorial Board, Journal of Environmental Systems Research (Springer), 2012-present
Organiser and host, UCL FM-Exchange Seminars (Infrastructure Series), 2011-present
Session Chair, Workshop on Game Theory in Energy, Resources, and the Environment, Montreal, Oct. 25-26, 2007
Review Assistant to Editor-in-Chief, Journal of Environmental Informatics, 2003-2004
Reviewer (2003-present):
Journal of Facilities Management (Emerald)
Journal of Environmental Management (Elsevier)
International Journal of Sustainable Transportation (Taylor & Francis)
Journal of Stochastic Environmental Research & Risk Assessment (Springer)

Journal of Cleaner Production (Elsevier)
 Journal of Environmental Engineering (ASCE)
 Journal of Environmental Modeling & Assessment (Springer)
 Journal of Environmental Modeling & Software (Elsevier)
 Energy Policy (Elsevier)
 Water Resources Management (Springer)
 Journal of Water Research (Elsevier)
 International Journal of Water (Inderscience)
 The Science of the Total Environment (Elsevier)
 Computational Management Science (Springer)
 Economics of Innovation and New Technology (Taylor & Francis)
 Automatica (Elsevier)
 Journal of Hazardous Materials (Elsevier)
 Journal of Information Sciences (Elsevier)
 Energy Sources Journal, Part-A (Taylor & Francis)
 Journal of Environmental Informatics (ISEIS)

TEACHING

<i>Course Leader</i>	Physical Asset Management, Bartlett School of Graduate Studies, University College London, 2011-
<i>Instructor</i>	Sustainable Facility Management, Bartlett School of Graduate Studies, University College London, 2011
<i>Guest Lecturer</i>	ENVE-360/F&ES-910 (Green Engineering & Sustainable Design), Yale University, USA, 2010
<i>Lab Instructor</i>	Introduction to Computer Programming, Department of Computer Science, First Nations University of Canada (SIFC), 2004-2006
<i>Teaching Assistant</i>	Introduction to Computer Programming, Department of Computer Science, First Nations University of Canada, 2003
<i>Teaching Assistant</i>	Engineering Economics, Department of Industrial Engineering, Sharif University of Technology, Iran, 2001

AWARDS and FUNDING

Provost's Teaching Award (Outstanding Contribution in Teaching & Learning), University College London (UCL), 2013
 UCL Grand Challenges Grant (Sustainable Cities): Assessment and Management of Infrastructure Resilience (with Andy Chow and Afzal Siddiqui), EPSRC-UCL, 2013-
 FM Sector Skills Assessment, UK Asset Skills Council (With Alexi Marmot), 2014-
 EMININN: Environmental Macro Indicators of Innovation (Life Cycle analysis of the Built Environment Technologies), (FP7-European Commission: UCL and 6 other European partners), 2013-
 UCL Grand Challenges (Sustainable Cities): Water Reuse Infrastructure Design, Configuration, and Planning (With Sarah Bell), 2012-2013
 ARUP Global Research Challenge Research Award: Urban Water Reuse Network Modeling and Optimisation, 2011-2012
 Postdoctoral Fellowship, Yale University - National Science Foundation (NSF), 2009-2010
 GERAD Fellowship, Groupe d'Études et de Recherche en Analyse des Décisions (GERAD), 2007-2009

NSERC Industrial R&D Postdoctoral Fellowship, Natural Sciences and Engineering Research Council of Canada (NSERC), approved for 2007-2010

NSERC Visiting Postdoctoral Fellowship, Natural Sciences and Engineering Research Council of Canada (NSERC), approved for 2007-2009

Faculty of Engineering Research Scholarship, School of Engineering, University of Regina, 2003-2007

Associated Engineering Scholarship, Associated Engineering Ltd., SK, Canada, 2004-2006

University of Regina Graduate Scholarship, Faculty of Graduate Studies, University of Regina, 2004-2005

CERTIFICATIONS & TRAINING

2012	Teaching & Learning in Higher Education	Institute of Education (University of London)
2012	Education on Stage (Theatrical Skills in Teaching)	University College London (UCL)
2009	Fundamentals of Teaching in Engineering	Yale University
2005	Teaching Development	University of Regina
2000	Technology Management	Sharif University of Technology
1998	Quality Assurance Systems	Sharif University of Technology

MEMBERSHIP

- The Institute for Operations Research and the Management Sciences (INFORMS)
- The Institute for Sustainable Infrastructure (ASCE)
- The Operational Research Society
- Society of Environmental Engineers (SEE)
- System Dynamics Society (UK Chapter)

PAPERS in JOURNALS

F.Mafakheri and **F.Nasiri** (2014). "Postgraduate Research Supervision at a Distance: A Review of Challenges and Strategies", *Studies in Higher Education*, accepted-in press

F.Mafakheri and **F.Nasiri** (2014). "Modeling of Biomass-to-Energy Supply Chain Operations: Applications, Challenges and Opportunities", *Energy Policy*, 67, 116-126

J. Si, **F. Nasiri**, P. Heng, T. Li (2014). "Variation in Ecosystem Service Values in Response to Land Use Changes in Zhifanggou Watershed of Loess Plateau: A Comparative Study", *Environmental Systems Research*, (2), 1-10

F. Mafakheri and **F. Nasiri** (2013). "Revenue Sharing Coordination in Reverse Logistics", *Journal of Cleaner Production*, 59, 185-196.

F. Nasiri, T. Savage, R. Wang, N. Barawid, and J.B. Zimmerman (2013). "A System Dynamics Approach for Urban Water Reuse Planning: A Case Study from the Great Lakes Region", *Stochastic Environmental Research and Risk Assessment*, 27 (3), 675-691.

F. Nasiri and G. Zaccour (2010). "Renewable Portfolio Standard Policy: A Game-theoretic Analysis", *INFOR*, 48 (4), 251-260

W. Mo, **F. Nasiri**, M. Eckelman, Q. Zhang, and J.B. Zimmerman (2010). "Measuring the Embodied Energy in Drinking Water Supply Systems: A Case Study in the Great Lakes Region", *Environmental Science & Technology*, 44 (24), 9516-9521

F. Nasiri and G. Zaccour (2009). "An Exploratory Game-Theoretic Analysis of Biomass Electricity Generation Supply Chain", *Energy Policy*, 37 (11), 4514-4522

- F. Nasiri, A. Manuilova and G. H. Huang (2009). "Environmental Policy Analysis in Transportation Planning: An Optimality Assessment Approach", *International Journal of Sustainable Transportation*, 3 (2), 1-22
- F. Nasiri and G. H. Huang (2008), "A Fuzzy Decision Aid Model for Environmental Performance Assessment in Waste Recycling", *Journal of Environmental Modeling and Software*, 23 (6), 677-689
- F. Nasiri and G. H. Huang (2008), "Integrated Capacity Planning for Electricity Generation: An Environmental Policy Analysis Approach", *Energy Sources Journal, Part B: Economics, Policy and Planning*, 3 (3), 259-279
- F. Mafakheri, F. Nasiri, and M. Moussavi (2008). "Project Agility Assessment: An Integrated Decision Analysis Approach", *Journal of Production Planning & Control*, 19 (6), 567-576
- F. Nasiri and G. H. Huang (2007). "Ecological Viability Assessment: A Fuzzy Multiple-Attribute Analysis with respect to Three Classes of Ordering Approaches", *Ecological Informatics*, 2 (2), 128-137
- F. Nasiri, I. Maqsood, G. H. Huang and N. Fuller (2007). "Water Quality Index: A Fuzzy River-Pollution Decision Support Expert System", *American Society of Civil Engineers (ASCE) Journal of Water Resources Planning & Management*, 133 (2), 95-105
- F. Nasiri, G. H. Huang and N. Fuller (2007). "Prioritizing Groundwater Remediation Policies: A Compatibility Analysis Decision Aid", *Journal of Environmental Management*, 82 (1), 13-23
- F. Mafakheri, L. Dai, D. Slezak, and F. Nasiri (2007). "Project Delivery System Selection under Uncertainty: A Multi Criteria Multi-Level Decision Aid Model", *ASCE Journal of Management in Engineering*, 23 (4), 200-206

EDITORIALS

- F. Nasiri and M. Pitt (2011). "Defining Risk in Facilities Management" (Editorial), *Journal of Facilities Management*, 9 (3).
- M. J. Eckelman and F. Nasiri (2011). "Thinking in Systems" (Book Review), *Journal of Industrial Ecology*, 15 (1), 156-157.

PAPERS in CONFERENCES & WORKSHOPS

- F. Nasiri, M. Shouler, and S. Tahir. "District Water Reuse Network Optimisation", *The 18th Young OR Conference of the Operational Research Society*, Exeter, UK, 9-11 April, 2013.
- M. Shouler, S. Tahir, and F. Nasiri. "Water-reuse Networks", *The 38th CIBW062 International Symposium on Water Supply and Drainage for Buildings*, Edinburgh, Scotland, UK, 27-30 August, 2012.
- T. Savage, R. Wang, F. Nasiri, N. Barawid, and J.B. Zimmerman. "Municipal Water System Planning and Optimization: Exploring Water Reclamation and Reuse from Water Utilities' Perspectives", *International System Dynamics Society Conference*, Washington, D.C., USA, July 24-28, 2011.
- F. Nasiri, T. Savage, R. Wang, N. Barawid, and J.B. Zimmerman. "A System Dynamics Approach for Urban Water Reclamation-Reuse Planning: A Case Study from the Great Lakes Region", *Engineering Sustainability 2011*, Pittsburgh, PA, USA, April 10-12, 2011.
- F. Nasiri, T. Savage, R. Wang, N. Barawid, and J.B. Zimmerman. "Urban Water Reclamation-Reuse Planning and Management: A System Dynamics Approach", *CRM-GERAD-MITACS Joint Workshop on Decision Analysis and Sustainable Development*, Montreal, QC, Canada, September 27-28, 2010.
- F. Nasiri and G. Zaccour, "A Game-Theoretic Analysis of Biomass Electricity Generation Supply Chain", *The 2009 Decision Sciences Institute Annual Meeting*, New Orleans, LA, USA, November 14-17, 2009.
- F. Nasiri and G. Zaccour, "Renewable Portfolio Standard: A Game-theoretic Analysis", *The INFORMS Annual Meeting (Invited Speaker - Section: Energy, Natural Resources, and the Environment)*, San Diego, CA, USA, October 11-14, 2009.

- F. Nasiri** and G. Zaccour, "Analyzing Biomass Utilization for Power Generation in Canada: A Game-Theoretic Approach", Workshop on Dynamic Games in Management (Section: Energy and Resources), Montreal, May 2-3, 2008.
- F. Nasiri** and G. Huang, "Capacity Planning for Electricity Generation with Energy-Environmental Targets", *Workshop on Game Theory in Energy, Resources, and Environment*, Montreal, October 25-26, 2007.
- F. Nasiri** and G. Huang, "Waste Recycling Programs in Canada: A Fuzzy Multiple Attribute Environmental Performance Analysis", accepted at The *Joint International Conference on Computing and Decision Making in Civil and Building Engineering*, Montreal, June 14-16, 2006.
- F. Nasiri**, G. Huang and N. Fuller, "A Compatibility Analysis Decision Aid for Selecting the Optimal Groundwater Remediation Technologies", accepted at The *International Conference on Environmental Management (ICEM)*, Hyderabad, India, October 28-30, 2005.
- F. Mafakheri, L. Dai, D. Slezak and **F. Nasiri**, "Selecting the Optimal Project Delivery System: A Rough-AHP Decision Aid", In Proceedings of the *International Workshop on Rough Sets and Soft Computing in Intelligent Agent and Web Technology (IEEE / WIC / CM International Joint Conference)*, Compiègne, France, September 19-22, 2005.
- F. Nasiri**, G. Huang, I. Maqsood, and N. Fuller, "Water Quality Index: A Multiple Criteria Approach", accepted at The *Third International Conference on River Basin Management*, Bologna, Italy, September 6-8, 2005.
- F. Nasiri**, G. Huang and G. Fuller, "A Fuzzy State-Space HOQ Model for Solid Waste Management", accepted at The *19th International Conference on Solid Waste Technology & Management*, Philadelphia, PA, USA, March 21-24, 2004.
- S. Khanmohammadi, **F. Nasiri** and M. Charmi, "Delay Time Estimating in Project Management Using Fuzzy Delays and Fuzzy Probabilities", In Proceedings of the *International ICSC Conference on Computational Intelligence (CIM2001)*, Bangor, UK, June 19-21, 2001.

OTHER PUBLICATIONS

- F. Nasiri** and G. Zaccour (2010). "Renewable Portfolio Standard Policy: A Game-theoretic Analysis", *Les Cahiers du GERAD*, 68, 1-19 (Ref. # G-2010-68)
- F. Nasiri** and G. Zaccour (2008). "A Game-Theoretic Framework for Analyzing Biomass-based Electricity Generation", *Les Cahiers du GERAD*, 70, 1-22 (Ref. # G-2008-70)
- F. Nasiri**, "Development of Fuzzy Multiple-Attribute Decision Aid Methodologies for Energy-Environmental Policy Analysis and Assessment." *PhD Dissertation*, University of Regina, 2007 (Supervisor: Prof. G. H. Huang)
- F. Nasiri**, "Fuzzy-Logic Based Decision Making Model Implementation in Project Control and Planning." *Master of Applied Sciences Thesis*, Department of Industrial Engineering, Sharif University of Technology, 2002 (Supervisor: Prof. S. T. Akhavan Niaki)
- F. Nasiri** (2003). "Dual Time-Probability Algorithm in Project Planning & Control Based on Fuzzy Beliefs", *Sharif Industrial Engineering Magazine*, 34, 29-35.

SUPERVISORY

PhD students:

Oriana Landa Cansigno, Bartlett School of Graduate Studies, University College London (1st Supervisor), 2014-

Hartini Yahya, Bartlett School of Graduate Studies, University College London (1st Supervisor), 2013-

Jin Si, Bartlett School of Graduate Studies, University College London (1st Supervisor), 2012-

Eleni Georgiou, School of Engineering, University College London (2nd Supervisor), 2012-

Jamie Bull, Bartlett School of Graduate Studies, University College London (2nd Supervisor), 2011-

MSc students:

A total of 11 MSc students have completed their studies under my supervision.

Research assistants:

Nikolas Anezakis, Bartlett School of Graduate Studies, University College London (UCL), 2014-

Jonathan Wilcox, Bartlett School of Graduate Studies, University College London (UCL), 2012-2013

Troy Savage, Centre for Green Chemistry and Green Engineering, Yale University, New Haven, CT, 2009-2011

Ranran Wang, Centre for Green Chemistry and Green Engineering, Yale University, New Haven, CT, 2009-2011

Nico Barawid, Centre for Green Chemistry and Green Engineering, Yale University, New Haven, CT, 2009-2011

PROFESSIONAL EXPERIENCE

UCL Consultant, Infrastructure Systems Group, ARUP, London, UK, 2012

Municipal Systems Analyst, Urban Management Development Deputyship, Municipality of Tehran, Iran, 2002 – 2003

Project Planning & Control Engineer, Industrial Engineering & Project Planning Department, SULIRAN Co. (design and manufacturing of steel structures and buildings), Tehran, Iran, 1999 – 2000

Quality Assurance Intern, PARSKHODRO Co. (car manufacturer), Tehran, Iran, 1997 – 1998