

## CURRICULUM VITAE

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<b>EDUCATION</b>	
1995	<b>Doctor of Philosophy</b> , Industrial Engineering, University of Cincinnati, Cincinnati, Ohio
1991	<b>Master of Science</b> , Industrial Engineering, University of Cincinnati, Cincinnati, Ohio
1982	<b>Bachelor of Science</b> , Mechanical Engineering, South China University of Technology, Guangzhou, PR China
<b>EXPERIENCE</b>	
08/02-present	<b>Associate Professor</b> , Graduate Program in Health Services Administration, Xavier University, Cincinnati, Ohio <u>Courses taught</u> <ul style="list-style-type: none"><li>• Quantitative Methods for Health Care Management</li><li>• QI Techniques for Health Care Management</li></ul> <u>Research interests</u> <ul style="list-style-type: none"><li>• Avoidable hospital conditions</li><li>• Effectiveness of ambulatory care</li><li>• Hospital readmission</li><li>• Success factors for ethics committees in healthcare organizations</li><li>• Resource use and outcomes of stroke patients</li></ul>
06/96-present	<b>Adjunct Professor</b> , Department of Mechanical, Industrial and Nuclear Engineering, University of Cincinnati, Cincinnati, Ohio <u>Courses taught</u> <ul style="list-style-type: none"><li>• Applied Regression Analyses</li></ul>
08/04-05/08	<b>Member</b> , Health Improvement Collaborative, Greater Cincinnati Health Council, Cincinnati, Ohio
02/02-12/06	<b>Consultant</b> , Catholic Healthcare Partners, Cincinnati, Ohio <u>Project involved</u> <ul style="list-style-type: none"><li>• Statistical analyses of hospital mortality data</li><li>• Evaluation of the impact of a disease management program on</li></ul>

- hospitalized heart failure patients
  - Evaluation of the impact of a partnership on a disease management program for hospitalized heart failure patients
- 08/96-07/02     **Assistant Professor**, Graduate Program in Health Services Administration, Xavier University, Cincinnati, Ohio
- Courses taught
- Quantitative Methods for Health Care Management
  - CQI Techniques for Health Care Management
- 06/99-09/99     **Consultant**, Cincinnati Branch of American Children Foundation, Cincinnati, Ohio
- Enrollment of children in working families to State Children Health Insurance Program (SCHIP)
- 05/94-08/96     **Data Analyst**, Graduate Program in Health Services Administration, Xavier University, Cincinnati, Ohio
- Projects involved
- ChoiceWise handbook evaluation
  - Hospital readmission as quality indicator
  - Physician resource management in New Brunswick, Canada
  - Teaching evaluation database
  - Student application database
- 09/95-12/95     **Instructor**, Department of Mechanical, Industrial and Nuclear Engineering, University of Cincinnati, Cincinnati, Ohio
- Course taught
- Ergonomics
- 09/91-10/95     **Research Assistant**, Fernald Environmental Restoration Management Corporation, Fernald, Ohio
- Projects involved
- Job requirement evaluation
  - Ergonomics risk assessment in work place
  - Redesign of workstation
- 07/93-05/95     **Research Associate**, Department of Mechanical, Industrial and Nuclear Engineering, University of Cincinnati, Cincinnati, Ohio
- Projects involved
- Ergonomic risk factor classification and assessment
  - Postural classification and assessment
  - Prototype design of computer peripheral equipment
- 06/93-05/94     **Statistics Consultant**, Bethesda Work Capacity Centers, Cincinnati,

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	Ohio
	<u>Project involved</u>
	<ul style="list-style-type: none"><li>• Statistical analyses of injury data</li></ul>
09/90-08/92	<b>Teaching Assistant</b> , Department of Mechanical, Industrial and Nuclear Engineering, University of Cincinnati, Cincinnati, Ohio
	<u>Courses assisted</u>
	<ul style="list-style-type: none"><li>• Experimental design</li><li>• Ergonomics</li><li>• Other Industrial Engineering courses</li></ul>
06/91-09/91	<b>Research Assistant</b> , H. B. Maynard and Company, Inc., Pittsburgh, Pennsylvania.
	<u>Project involved</u>
	<ul style="list-style-type: none"><li>• Development of an ergonomic assessment system to be used as a supplement to the MOST Work Measurement System®</li></ul>
04/91-08/91	<b>Research Assistant</b> , Maintenance Department, University Hospital, Cincinnati, Ohio
	<u>Projects involved</u>
	<ul style="list-style-type: none"><li>• Ergonomics risk assessment</li><li>• Implementation of a physical exercise program to reduce the risk of injury and improve work efficiency</li></ul>
09/89-06/90	<b>Research Assistant</b> , Department of Industrial Engineering, Western Michigan University, Kalamazoo, Michigan
	<u>Project involved</u>
	<ul style="list-style-type: none"><li>• Optimization of production speed</li></ul>
12/83-08/89	<b>Deputy Director</b> , Department of Technology Exchange, Guangdong Science and Technology Exchange Center with Foreign Countries, Guangzhou, PR China
	<u>Responsibilities</u>
	<ul style="list-style-type: none"><li>• Technology innovation turnkey projects</li><li>• International trade</li></ul>

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## PUBLICATIONS

### Peer-Review Publications

1. **Guo L**, Hariharan S. Patients Are Not Cars and Staff Are Not Robots: Impact of Differences between Manufacturing and Clinical Operations on Process Improvement. *Knowledge and Process Management: The Journal of Corporate Transformation*. 2012;19(2):53-68.

2. Chung ES, **Guo L**, Casey DE, Bartone C, Menon S, Saghir Syed, Mital A, Kereiakes DJ. Relationship of National Heart Failure Quality Measure Composites to Clinical Outcomes. *American Journal of Medical Quality*. 2008;23(3):168-175.
3. **Guo L**, Chung ES, Casey DE, Snow R. Redefining Hospital Readmissions to Better Reflect Clinical Course of Care for Heart Failure Patients. *American Journal of Medical Quality*. 2007;22(2):98-102.
4. **Guo L**, Schick IC. The Impact of Committee Characteristics on the Success of Healthcare Ethics Committees. *HEC Forum*. 2003;15(3):287-299.
5. Moore LW, Maiocco G, Schmidt SM, **Guo L**, Estes J. Perspectives of Caregivers of Stroke Survivors: Implications for Nursing. *MEDSURG Nursing*. 2002;11(6):289-295.
6. Schmidt SM, **Guo L**, Moore LW, Estes J. Comparison of Stroke Rehabilitation Outcomes and Cost between Long Term Facility and Rehabilitation Hospital. *American Journal of Epidemiology Abstracts*. 2002;155:245.
7. Schmidt S, **Guo L**, Scheer S. Changes in the Status of Hospitalized Stroke Patients since Inception of Prospective Payment System in 1983. *Archives of Physical Medicine and Rehabilitation*. 2002;83(7):894-8.
8. Hankins RW, **Guo L**, Bentley LA. Recruiting Physicians and Long Term Viability: Perspective of Physicians and Practice Managers. *Journal of Health Care Finance*. 2002;29(1):76-86.
9. MacDowell M, **Guo L**, Short A. Preventive Health Services Use, Lifestyle Health Behavior Risks, and Self-Reported Health Status of Women in Ohio by Ethnicity and Completed Education Status. *Women's Health Issues*. 2002;12(2):96-102.
10. **Guo L**, MacDowell M., Levin L., Hornung R., Linn S. How Are Age and Payors Related to Avoidable Hospitalization Conditions? *Managed Care Quarterly*. 2001, 9(4):33-42.
11. Schick I, **Guo L**. Ethics Committees Identify Success Factors: A National Survey. *HEC Forum*. 2001, 13(4):344-360.
12. **Guo L**, Schmidt S, Scheer S. Use of Acute and Subacute Services by Hospitalized Stroke Patients: A Comparison across Payors. *Journal of Nursing Economics*, 2001, 19(3): 107-114.

13. Schmidt S, **Guo L**, Scheer S. Epidemiologic Determination of Community-Based Case Management for Stroke. *Journal of Nursing Administration*, 1999, 29(6):40-48.
14. Hernandez L, Genaidy A, Davis S, **Guo L**. A Study of Musculoskeletal Strain Experienced by Nurses. *Occupational Ergonomics*, 1998, 1(2):1-11.
15. **Guo L**, Genaidy A, Christensen D, Huntington K. Macro-Ergonomic Risk Assessment in the Nuclear Remediation Industry. *Applied Ergonomics*, 1996, 27(4):241-254.
16. Stambough J, Genaidy A, **Guo L**. A Mathematical Lifting Model for the Design of Industrial Lifting Activities. *Journal of Spinal Disorders*, 1995, 8(4):264-277.
17. Perry L, Palmer J, Weyrick B, **Guo L**. 1994, An Effective Preemployment Screening Protocol. *Work*, 1994, 4(4):285-292.
18. Genaidy A, Karwowski W, **Guo L**, Hidalgo J, Garbutt, G. Physical Training: A Tool for Increasing Work Tolerance Limits of Employees Engaged in Manual Handling Tasks. *Ergonomics*, 1992, 35(9):1081-1102.
19. Genaidy AM, Simmons RJ, **Guo L**, Hidalgo J. Can Visual Perception Be Used to Estimate Body Postures? *Ergonomics*, 1992, 36(4):323-329.
20. **Guo L**, Genaidy A, Warm J, Karwowski W, Hidalgo J. Effects of Job-Simulated Flexibility and Strength-Flexibility Training Protocols on Maintenance Employees Engaged in Manual Handling Operations. *Ergonomics*, 1992, 35(9):1103-1117.

#### Proceedings

1. Genaidy AM, **Guo L**, Eckart R, Tischbein D. A Postural Stress Analysis System for Evaluation Body Movements and Positions in Industry. *Ergonomics Society Conference*, 1993, Scotland.

#### Books/Chapters

1. **Guo L**, Genaidy A, Christensen D, Huntington K. Macro-Ergonomic Risk Assessment in the Nuclear Remediation Industry. In S.A. Robertson (ed.), *Contemporary Ergonomics 1995*. London: Taylor & Francis Ltd., 1995.
2. Hernandez L, Genaidy A, Davis S, Alhemoud A, **Guo L**. An Assessment of Musculoskeletal Strain Experienced by Nurses in the Workplace. In S.A. Robertson (ed.), *Contemporary Ergonomics 1995*. London: Taylor & Francis Ltd., 1995.

3. Mital A, **Guo L**. Development of Gross Weight Limit for Wheelchairs for Individuals Suffering from a Cardiac Impairment. In S. Kumar (ed), *Advances in Industrial Ergonomics and Safety IV*. London: Taylor & Francis Ltd., 1992.
4. **Guo L**, Genaidy AM, Lento K, Mital A. Effects of Protective Restraints on Discomfort Perceived in the Wrist. In W. Karwowski and J.W. Yates (ed), *Advances in Industrial Ergonomics and Safety III*. London: Taylor & Francis Ltd., 1991.

#### Non-Refereed Publications

1. **Guo L**. Lessons Learned: Technology-Based Instruction. *The Grapevine: The Xavier Faculty Development Newsletter*, 2001, 2(4): 1&6.

### **PRESENTATIONS**

#### Peer-Reviewed Presentations

1. “Reducing Heart Failure Hospitalizations and Readmissions without Advanced Practice Nursing – A Call to Action.” Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke Conference 2007, American Heart Association, Washington, DC, May 9-11, 2007.
2. “Redefining Readmissions to Better Reflect the Clinical Course of Heart Failure Patients.” American Heart Association Scientific Sessions 2006, Chicago, Illinois, November 12-15, 2006.
3. “The Effect of Heart Failure Trained Advocates on 30 and 60 Day Readmissions,” American Heart Association Scientific Sessions 2006, Chicago, Illinois, November 12-15, 2006.
4. “Redefining Readmissions to Better Reflect the Clinical Course of Heart Failure Patients.” 10<sup>th</sup> Annual Scientific Meeting, Heart Failure Society of America, Seattle, Washington, September 10-13, 2006.
5. “The Effect of Heart Failure Trained Advocates on 30 and 60 Day Readmissions,” 10<sup>th</sup> Annual Scientific Meeting, Heart Failure Society of America, Seattle, Washington, September 10-13, 2006.
6. Scheer S, Schmidt S, **Guo L**. Destinations and Length of Stay of Acute Stroke Survivors in a Large Metropolitan Area. Poster Presentation, 74th Annual Meeting, American Congress of Rehabilitation Medicine, Boston, MA, September 1997.
7. Schmidt S, Scheer S, **Guo L**. Community-Based Epidemiological Study of Stroke Patients for Managed Care. “New Dimensions in Nursing Research: Expanding the Foundations of Practice” Conference, Merrillville, IN, November 1997.

8. Ludke RL, Booth BM, **Guo L.** Early Hospital Readmissions and Premature Discharge. 11th Annual Symposium, The Center for Clinical Quality Evaluation, Arlington, VA, November 1996.
9. Ludke RL, Booth BM, **Guo L.** Early Hospital Readmissions and PRO Quality Indicators. 13th Annual Meeting, Association for Health Services Research and Foundation for Health Services Research, Atlanta, GA, June 1996.

#### Invited Presentations

1. “Data Analysis in Healthcare”, Ethicon, Cincinnati, Ohio. 2013.
2. “Quality Improvement Techniques in the US Healthcare Organizations” Opening Ceremony of Training Program for Hospital Administrators. Zhongshan City, Guangdong Province, the People’s Republic of China. July 27, 2008.
3. “Introduction to the US Healthcare System” Sichuan Provincial Government Administration Delegation of China, Xavier University. 2006.
4. “Introduction to the US Healthcare System” Hunan Provincial Government Administration Delegation of China, Xavier University. 2005.
5. “Quality Improvement in the US Healthcare Organizations, Part 2” Lithuania, 2004.
6. “Quality Improvement in the US Healthcare Organizations, Part 1” Lithuania, 2003.
7. “Comparison of Stroke Rehabilitation Outcomes and Cost between Long Term Care Facility and Rehabilitation Hospital,” 35<sup>th</sup> Annual Meeting, Society for Epidemiologic Research, Palm Desert, California, June 18-21, 2002.
8. “Development and Application of a Regional Health Status Indicator Database,” AUPHA Annual Conference, Los Angeles, CA, 2000.
9. “Health Indicators for Southwest Ohio Counties,” Southwest Ohio Health Data Outreach Workshop, Cincinnati, OH, 2000.
10. “Health Indicators for Northern Kentucky Counties,” Northern Kentucky Health Data Outreach Workshop, Cincinnati, OH, 2000.
11. “Obstacles and Opportunities for Trade Between Mainland China and Businesses in the Greater Cincinnati Area,” Annual Meeting, Ohio Association of Economists and Political Scientists, 1998.

12. "Stroke Victims: A Community-Based Study", Junior Faculty Forum, Xavier University, 1997,
13. "Early Hospital Readmissions and Premature Discharge", the 11th Annual Symposium, the Center for Clinical Quality Evaluation, Arlington, VA, 1996.
14. "Introduction to Ergonomics", China Science Academy, Guangdong Branch, Guangzhou, PR China, 1995.
15. "Protective Equipment", The 63rd All-Ohio Safety & Health Congress & Exhibit, Columbus, OH, 1993.
16. "Ergonomic Risk Assessment: A Case Study", The 62nd All-Ohio Safety & Health Congress & Exhibit, Cincinnati, OH, 1992.
17. "Macroscopic Ergonomic Risk Assessment", Ergonomic Risk Assessment Seminar in Industry: The What, Why and How, Houston, TX, 1992.
18. "Effects of Protective Restraints on Discomfort Perceived in the Wrist", Annual International Industrial Ergonomics and Safety Conference'91, Lake Tahoe, NE, 1991.

## **ARTICLE REVIEWS**

The peer-reviews of the following articles were conducted upon the requests of editors.

1. Consequences of the Uninsured: Hospital, Health Center Costs and Avoidable Hospitalizations. *Journal of Health Care for the Poor and Underserved*, 2006.
2. Sarac I, Bagaric I, Oreskovic S, Reamy J, Lang S. Physician Requirements for the Croat Population in Bosnia and Herzegovina. *Croatian Medical Journal*, 1997, 38(2): 83-87.

## **GRANTS**

1. "Referrals in Point-of-Service Plan." Funded by Arlinghaus Research Grant. 2002.
2. "Comparison of Stroke Rehabilitation Outcomes and Cost between Long Term Care Facility and Rehabilitation Hospital." Funded by the Educational Foundation of Ohio Health Care Association. 2001.
3. "Success Factors of Ethics Committees." Funded by Arlinghaus Research Grant. 2000.



4. “Epidemiological Survey of Stroke Rehabilitation and Hospitalization and Skilled Nursing Environment / Quality, Outcome and Cost. Phase I. Retrospective Study of City-Wide Records of Stroke Patients; Phase II. Prospective Study of Rehabilitation Quality, Outcome and Cost.” Funded by Drake Center, Inc., Cincinnati, Ohio. 1996-1998.

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