# YUEQING LI

Assistant Professor
Director of Neuroergonomics Lab
Director of Human-Computer Interaction Lab
Co-Director of Human Factors & Ergonomics Lab
Department of Industrial Engineering
Lamar University, Beaumont, TX 77710

Office: Cherry 2208
Phone: 409-880-7500
Fax: 409-880-8121
Email: yueqing.li@lamar.edu

---

## Research Interests

Neuroergonomics

- Brain-computer interface (BCI)
- Neurocognitive processing
- BCI-based rehabilitation
- BCI-based robotics
- Neural signal-based UAV
- Neuroergonomics

Human-computer interaction (HCI)

- Usability analysis
- Haptic-user interface
- Vibrotactile-user interface
- Intelligent user interface
- User behavior modeling
- Cognitive engineering
- Wearable equipment
- Augmented Reality (AR)-based HCI
- Game-based study design

Human Factors & Ergonomics

- Human factors & ergonomics
- Occupational safety
- Driving safety
- Safety engineering
- Physiological ergonomics
- EMG-based robotics

Date Analytics

- Statistics
- Data mining & algorithm design
- Big data analysis
- Machine learning
- Decision Making
- Neural signal classification

## Honors

**Engineering Faculty Fellow,** *College of Engineering, Lamar University (2017-2020)*

**Eric Malstrom Endowed Memorial Scholarship,** *Department of Industrial Engineering, University of Arkansas (2009-2010).* This scholarship is awarded to the outstanding graduate students with exceptional academic promise in the Department of IE, University of Arkansas.

**Outstanding Graduate Award,** *Nanjing University of Aeronautics and Astronautics (2004-2005)*

**Outstanding Teacher Award**, *Henan Polytechnic University (2002-2003).* This award is given to the most excellent teacher with exceptional teaching and is the highest level award in Henan Polytechnic University.

**Renmin Scholarship,** *Zhengzhou University (1996-2000)*

**Excellent Student Award,** *Zhengzhou University (1996-1998)*

## Education

**North Carolina State University, Department of Industrial and Systems Engineering** **Raleigh, NC**

*Ph. D. in Industrial Engineering/minor in Statistics* (GPA: 3.83/4.0) *Aug 2014*

*Dissertation:* ***Evaluation of collaborative brain-computer interface (BCI) for people with severe motor disabilities***

*Advisor: Prof.* ***Chang S. Nam***

**University of Arkansas, Department of Industrial Engineering** **Fayetteville, AR**

*M. S. in Industrial Engineering* (GPA: 3.83/4.0) *Aug 2009*

*Dissertation:* ***A P300-based brain-computer interface (BCI): effects of luminosity contrast, stimulus duration, interface type & screen size***

*Advisor: Prof.* ***Chang S. Nam***

**Nanjing University of Aeronautics and Astronautics,**

**School of Economics and Management** **Nanjing, China**

*M. S. in Economics* *Mar 2006*

*Thesis:* ***Research on the strategy of Jiaozuo's industry structure adjustment***

*Advisor:* ***Prof. Ruilan Wang***

**Zhengzhou University, School of Physics Engineering** **Zhengzhou, China**

*B. S. in Electronics Engineering* *Jul 2000*

*Thesis:* ***Research on carbon dioxide-based laser medical instrument***

*Advisor:* ***Prof. Dadi Jin***

## Peer-Reviewed Journal Publications

*In Press*

1. Kshirsagar, P., Tcheslavski, G., & **Li, Y.** (2018). On the EEG-based autism diagnostics while using Discrete Wavelet Transform. *Research in Autism Spectrum Disorders* (under review).

2. Zuo, W., **Li. Y.**, & Wang, Y. (2017). Research on the Optimization of R&D Subsidy about Generic Technology of New Energy Vehicle Industry Based on the Three-way Decisions. *Energy Policy* (under review).

3. Tian, Y., Deng Z., Luo, J., & **Li, Y**. (2017). An Intuitionistic Fuzzy Set Based $S^3$VM Model for Binary Classification with Mislabeled Information. *Fuzzy Optimization and Decision Making*, DOI 10.1007/s10700-017-9282-z.

4. Tian, Y., Sun, M., Deng Z., Luo, J., & **Li, Y**. (2017). A new fuzzy set and nonkernal SVM approach for mislabeled binary classification with applications. *IEEE Transactions on Fuzzy Systems,* 1536-1545.

5. Shi, Y., Xiang, Y., Jin, T., & **Li., Y**. (2016). Joint Planning for Spare Parts Inventory and Preventive Maintenance in a Multi-Echelon Network. *International Journal of Inventory Research, 3*, 263-281.

6. **Li, Y.**, & Nam, C.S. (2016) Evaluation of collaborative brain-computer interface for people with motor disabilities. *IEEE Computational Intelligence Magazine, 11*, 56-66.

7. Nam, C.S., Moore, M., Choi, I., & **Li, Y.** (2015). Designing Better, Cost-Effective Brain-Computer Interfaces. *Ergonomics in Design: The Quarterly of Human Factors Applications, October,* 13-19.

8. **Li, Y.**, Jeon, W., & Nam, C.S. (2015). Navigation by vibration: effects of vibrotactile feedback on a navigation task. *International Journal of Industrial Ergonomics*, 46, 76-84.

9. **Li, Y**., Bahn, S., Nam, C.S., & Lee, J. (2014). Effects of luminosity contrast and stimulus duration on user performance and preference in a P300-based brain-computer interface (BCI). *International Journal of Human-Computer Interaction*, 30, 151-163.

10. Nam, C.S., **Li, Y**., Yamaguchi, T., & Smith-Jackson, T.L. (2012). Haptic user interface for the visually impaired: implications for haptically enhanced science learning systems. *International Journal of Human-Computer Interaction*, *28*, 784-798.

11. **Li, Y.**, Nam, C. S., Shadden, B. B., & Johnson, S. L. (2010). A P300-Based Brain-Computer Interface (BCI): Effects of Interface Type and Screen Size. *International Journal of Human-Computer Interaction*, *27*, 52-68.

12. Nam, C. S., **Li, Y.**, & Johnson, S. (2010). Evaluation of P300-Based Brain-Computer Interface (BCI) in Real-World Contexts. *International Journal of Human-Computer Interaction, 26*, 621-637.

13. Wang, Y., Dang, Y., **Li**, Y, & Liu, S. (2010). An approach to increase prediction precision of GM(1,1) model based on optimization of the initial condition. *Expert Systems with Applications, 37*, 5640-5644.

14. Nam, C. S., Jeon, Y., **Li, Y.**, Kim, Y-J., & Yoon, H. (2009). Usability of the P300 Speller: Towards a More Sustainable Brain-Computer Interface. *eMinds: International Journal on Human-Computer Interaction, 1*, 111-125.

15. Nam, C. S., Johnson, S., **Li, Y.**, & Seong, Y. (2009). Evaluation of Human-Agent User Interfaces in Multi-Agent Systems. *International Journal of Industrial Ergonomics, 39*, 192-201.

16. Wang, Y., Dang, Y., **Li, Y.**, & Liu, S. (2009). A new method to improve prediction precision of GM (1, 1) model. *The Journal of Grey System, 21*, 301-308.

17. **Li, Y.**, Wang, R., Cui, X., & Gu, J. (2005). Contributions of NPO to America Employment and Inspiration to China. *Reform of economic system, 3*, 136-139. ISSN 1006-012X (in Chinese)

18. **Li, Y.**, & Zhang, J. (2005). The Sustainable Development of Chinese Economy: Problems and Solutions. *Market Weekly, 1*, 106-108. ISSN 1008-4428 (in Chinese)

19. Gu, J., Wang, R., Cui, X., & **Li, Y.** (2005). Game theory-based analysis of compensation combination of long & short term and handlers' attitude to risk. *Commercial Research, 22*, 164-165. ISSN 1001-148X (in Chinese)

20. Li, D., Zhang, J., **Li, Y.,** Bu, X., & Wang, Ch. (2005). VHDL and the Design of Digital Circuit. *Electric Switchgear, 2*, 6-8. ISSN 1004-289X (in Chinese)

21. Zhang, J., **Li, Y.**, & Wang, F. (2005). How to connect the research to teaching and strengthen the teaching effect in the course of single-chip microcomputer. *Vocational Education Research, 7*, 115-115, ISSN 1672-5727 (in Chinese)

22. Li, Y., Wang, R., & Cui, X. (2004). Discussion of the Urbanization. *Market Weekly, 11*, 55-57. ISSN 1008-4428 (in Chinese)

23. Cui, X., **Li, Y.**, & Wang, R. (2004). Industrial Cluster and Economic Development of the Middle and West China. *Market Weekly, 12*, 18-20. ISSN 1008-4428 (in Chinese)

*Journal (to be submitted)*

1. Mahesh, V., **Li, Y.**, Craig, B. (2018). EMG Analysis of Muscle Pump and Associated Lower Extremity Volume Change in Humans for Various Activities. *Applied Ergonomics*.

2. Dabiran, Y., & **Li, Y.** (2018). The Effect of Background Music on Task Performance. *Psychology of Music*.

3. Dabiran, Y., & **Li, Y**. (2018). The Effect of Music Genre and Tempo on Task Performance. *Work.*

4. **Li, Y.,** & Li, G., Craig, B. (2018). A Review of Port-Related Musculoskeletal Disorders (MSDs). *Ergonomics*.

5. **Li, Y.**, & Li, G. (2018). An evaluation of web maps based on design features cross-culture effect. *International Journal of Human-Computer Interactions.*

6. **Li, Y.**, Mahesh, V., Craig, B. Evaluation of the flooring effect on lower extremity discomfort during food service tray-line jobs. *Ergonomics*.

*In Preparation*

1. **Li, Y.**, Nam, C.S., & Johnson, S. Markov Chain based haptic user behavior analysis: implications for haptically enhanced science learning systems. 75% complete.

2. **Li**, **Y.**, & Nam, C.S. Boosting support vector machine (BSVM): a new algorithm to improve EEG classification. 50% complete.

3. **Li, Y.**, & Nam, C.S. Effect of LED frequency and color: towards a user-specific SSVEP-based brain-computer interface (BCI). 60% complete.

4. **Li, Y.,** & Jian Luo. A new SVM algorithm for EEG classification. 30% complete.

5. Akurke, S., & **Li, Y**. The effect of screen size of smart mobile phone on users' discomfort and the usability. 50% complete.

## Peer Reviewed Conference Proceedings

1. Mahesh, V., **Li, Y.**, & Craig, B. (2017). Effect of flooring on lower extremity discomfort during food service tray-line jobs. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 950-954.

2. Li, G., **Li, Y.**, Zhang, J., **&** Zhang, X. (2017). Design feature and cross-culture based comparative evaluation of web maps. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 818-822.

3. Mahesh, V., **Li, Y.,** & Craig, B. (2017). Effect of walking, running and gradients on muscle pump and edema. In *Proceedings of International Conference on Applied Human Factors and Ergonomics*, 335-342.

4. Akurke, S., **Li, Y.,** & Craig, B. (2017). Effect of smart phone use on upper extremity and neck. In *Proceedings of International Conference on Applied Human Factors and Ergonomics*, 241-249.

5. Juloori, A., **Li, Y.,** & Zhu, W. (2017). Development of a Game-Based and Haptically Enhanced Application for People with Visual Impairment. In *Proceedings of International Conference on Applied Human Factors and Ergonomics*, 186-192.

6. Syed, U., Patil, M., **Li, Y.,** & Craig, B. (2017). Ergonomics Evaluation of a Manual Braking System for Skateboards. In *Proceedings of International Conference on Applied Human Factors and Ergonomics*, 157-164.

7. Yesodha, K., Narasimhan, V., **Li, Y.,** & Criag, B. (2017). Ergonomic Evaluation of Videogame Controllers. In *Proceedings of International Conference on Applied Human Factors and Ergonomics*, 384-391.

8. Ilori, A., **Li, Y.**, Mahesh, V., & Craig, B. (2016). Effect of position: An ergonomics evaluation of police wearable equipment. In *Proceedings of 7th International Conference on Applied Human Factors and Ergonomics*, Orlando, Florida, July 2016.

9. **Li, Y.**, & Nam, C.S. (2015). A collaborative brain-computer interface (BCI) for ALS patients. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting.*

10. Jeon, W., **Li, Y.**, Bahn, S., & Nam, C.S. (2013). Assessing the effectiveness of vibrotactile feedback on a 2D navigation task. In M. Kurosu (Ed.): *Human-Computer Interaction*, Part IV, HCII 2013, LNCS 8007, 594-600.

11. **Li, Y.**, Woo, J., & Nam, C.S. (2012). A preliminary research on P300-based BCI application for people with motor disabilities. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting, 56*, 1049-1053.

12. Johnson, S., **Li, Y.**, Nam, C.S. & Yamaguchi, T. (2011). Analyzing user behavior within a haptic system. In J.A. Jacko (Ed.): *Human-Computer Interaction*, Part II, HCII 2011, LNCS 6762, 62-70.

13. **Li, Y.**, Johnson, S., & Nam, C.S. (2011). Haptically enhanced user interface to support science learning of visually impaired. In J.A. Jacko (Ed.): *Human-Computer Interaction*, Part IV, HCII 2011, LNCS 6764, 68-76.

14. Yamaguchi, T., Johnson, S., Kim, H.N., **Li, Y.**, Nam, C.S., & Smith-Jackson, T. L. (2009). Haptic Science Learning System for Students with Visual Impairments: A Preliminary Study. In C. Stephanidis (Ed.): *Universal Access in HCI*, HCII 2009, LNCS 5616, 157-166.

15. **Li, Y.**, Nam, C.S., & Choo, Y-G. (2009). Towards optimizing P300 Speller matrix design while decreasing human error. In *Proceedings of 17th World Congress on Ergonomics*, Beijing, China.

16. Nam, C.S., Johnson, S., & **Li, Y.** (2008). Environmental Noise and P300-Based Brain-Computer Interface (BCI). In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, *52*, 803-807.

## Book Chapters

1. Johnson, S., Yamaguchi, T., **Li, Y.**, Kim, H.N., & Nam, C.S. (2010). Analyzing the behavior of users with visual impairments in a haptic learning application. In V. Rice (Eds): *Advances in understanding human performance neuroergonomics, human factors design, and special populations*, 675-683.

## Technical Reports

1. Nam, C.S., **Li, Y.,** & Kim, Y-J. (2007). Experimental evidence on team coordination and collaboration within a distributed logistics network. In *A human-centered approach to sense and respond logistics*, 23-44.

## Presentations

1. Mahesh, V., **Li, Y.**, & Craig, B. (2017). Effect of flooring on lower extremity discomfort during food service tray-line jobs. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 950-954.

2. Li, G., **Li, Y.**, Zhang, J., **&** Zhang, X. (2017). Design feature and cross-culture based comparative evaluation of web maps. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 818-822.

3. Mahesh, V., **Li, Y.,** & Craig, B. (2017). Effect of walking, running and gradients on muscle pump and edema. In *Proceedings of International Conference on Applied Human Factors and Ergonomics*, 335-342.

4. Akurke, S., **Li, Y.,** & Craig, B. (2017). Effect of smart phone use on upper extremity and neck. In *Proceedings of International Conference on Applied Human Factors and Ergonomics*, 241-249.

5. Juloori, A., **Li, Y.,** & Zhu, W. (2017). Development of a Game-Based and Haptically Enhanced Application for People with Visual Impairment. In *Proceedings of International Conference on Applied Human Factors and Ergonomics*, 186-192.

6. Syed, U., Patil, M., **Li, Y.,** & Craig, B. (2017). Ergonomics Evaluation of a Manual Braking System for Skateboards. In *Proceedings of International Conference on Applied Human Factors and Ergonomics*, 157-164.

7. Yesodha, K., Narasimhan, V., **Li, Y.,** & Criag, B. (2017). Ergonomic Evaluation of Videogame Controllers. In *Proceedings of International Conference on Applied Human Factors and Ergonomics*, 384-391.

8. Li, G., Li, Y., Zhang, J., Zhang, X. (2017). A Design Feature and Cross-Culture Based Comparative Evaluation of Web Maps. In *Southwest HFES Symposium*, June 9, 2017, San Antonio, TX.

9. Makarla, J., Kukadia, A., Abraham, A., Asnani, S., Nittala, L., Li, Y. (2017). Evaluation of Manual Typing and Speech Recognition-Based Typing in Microsoft Word for People with Visual and/or Motor Disabilities. In *Southwest HFES Symposium*, June 9, 2017, San Antonio, TX.

10. Modi, K., Dave, P., Rana, D., Raval, D., Vaishnav, C., Li, Y. (2017). Evaluation of a Holographic Head-Up Display to Enhance Driving Safety. In *Southwest HFES Symposium*, June 9, 2017, San Antonio, TX.

11. Mahesh, V., Li, Y., Craig, B. (2017). Effect of Motion Type and Inclination on Muscle Activity and Edema. In *Southwest HFES Symposium*, June 9, 2017, San Antonio, TX.

12. Akurke, S., Li, Y., Craig, B. (2017). Effect of screen size of Smartphone on neck and arms. In *Southwest HFES Symposium*, June 9, 2017, San Antonio, TX.

13. Dabiran, Y., Li, Y., Craig, B. (2017). Evaluating the effect of music on cognitive task performance. In *Southwest HFES Symposium*, June 9, 2017, San Antonio, TX.

14. Juloori, A., Li, Y., Zhu, W. (2017). Development of a Serious Game for the Visually Impaired. In *Southwest HFES Symposium*, June 9, 2017, San Antonio, TX.

15. Ilori, A., **Li, Y.**, Mahesh, V., and Craig, B. (2016). Effect of position: An ergonomics evaluation of police wearable equipment. In *Proceedings of 7th International Conference on Applied Human Factors and Ergonomics*, Orlando, Florida, July 2016.

16. Chodapaneedi, T., Illori, A., Sibbadi, B., Allam, V., Gandi, R., **Li, Y.**, Craig, B. (2016). Order Input Interface for People with Speech and Hearing Impairment at a Drive-Thru. In Houston Human Factor and Ergonomics Society 2016 Symposium, Houston, Texas, June 2016.

17. Mahesh, V., **Li, Y.**, & Craig, B. (2016). Evaluation of flooring on comfort and fatigue in trayline duties. IIE Annual Conference, Anaheim, California, May 2016.

18. **Li, Y.**, & Nam, C.S. (2015). A collaborative brain-computer interface (BCI) for ALS patients. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*.

P19. **Li, Y.** (2015). A collaborative brain-computer interface (BCI). Houston Human Factor and Ergonomics Society 2015 Symposium, Houston, Texas, June 2015.

20. Jeon, W., **Li, Y.**, Bahn, S., & Nam, C.S. (2013). Assessing the effectiveness of vibrotactile feedback on a 2D navigation task. In M. Kurosu (Ed.): *Human-Computer Interaction*, Part IV, HCII 2013, LNCS 8007, 594-600.

21. **Li, Y.**, Woo, J., & Nam, C.S. (2012). A preliminary research on P300-based BCI application for people with motor disabilities. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, *56*, 1049-1053.

22. Johnson, S., **Li, Y.**, Nam, C.S. & Yamaguchi, T. (2011). Analyzing user behavior within a haptic system. In J.A. Jacko (Ed.): *Human-Computer Interaction*, Part II, HCII 2011, LNCS 6762, 62-70.

23. **Li, Y.**, Johnson, S., & Nam, C.S. (2011). Haptically enhanced user interface to support science learning of visually impaired. In J.A. Jacko (Ed.): *Human-Computer Interaction*, Part IV, HCII 2011, LNCS 6764, 68-76.

24. Yamaguchi, T., Johnson, S., Kim, H.N., **Li, Y.**, Nam, C.S., & Smith-Jackson, T. L. (2009). Haptic Science Learning System for Students with Visual Impairments: A Preliminary Study. In C. Stephanidis (Ed.): *Universal Access in HCI*, HCII 2009, LNCS 5616, 157-166.

25. **Li, Y.**, Nam, C.S., & Choo, Y-G. (2009). Towards optimizing P300 Speller matrix design while decreasing human error. In *Proceedings of 17th World Congress on Ergonomics*, Beijing, China.

26. Nam, C.S., Johnson, S., & **Li, Y.** (2008). Environmental Noise and P300-Based Brain-Computer Interface (BCI). In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, *52*, 803-807.

27. Nam, C.S., Lyons, J., & **Li, Y.** (2007). Team Coordination and Collaboration within a Distributed Logistics Network. *Annual Symposium on Applied Experimental Research*. Fairfax, VA.

## Posters

1. Syed, U., Kanaparthi, S., Paul, N., Treesha, M., Li, Y., Craig, B. (2017). Evaluation of a skateboard manual breaking system. In Southwest HFES Symposium, June 9, 2017, San Antonio, TX.

2. Kallu, C., Dokka, S., Gangadhar, S., Gundabathula, P., Patel, N., Li, Y. (2017). Evaluation of reading media. In Southwest HFES Symposium, June 9, 2017, San Antonio, TX.

3. Oggu, V., Kancherla, S., Namala, B., Saragadam, S., Li, Y. (2017). Comparision of three word processors. In Southwest HFES Symposium, June 9, 2017, San Antonio, TX.

4. Gudapati, J., Jagadeesan, A., Yesodha, K., Li, Y. (2017). Evaluation of MOBAs New Player Training Tutorials. In Southwest HFES Symposium, June 9, 2017, San Antonio, TX.

5. Vanukura, R., Kandakatla, J., Konidhina, M., Satti, S., Penumatsa, S., **Li, Y.**, Craig, B. (2016). Resume Search with Multiple Key-Words of Job Requirement. *Houston Human Factor and Ergonomics Society 2016 Symposium*, Houston, Texas.

6. Illori, A., Li, G., **Li, Y.**, Zhang, J., Craig, B. (2016). Effects of Category Wording and Color Contrasts on the Usability of a Library Website in a Language-Diverse Institution. *Houston Human Factor and Ergonomics Society 2016 Symposium*, Houston, Texas.

7. Patil, N., Kethineedi, S., Dabiran, Y., Saiprem, P., Li, G., **Li, Y.**, Craig, B. (2016). Evaluation of User Experience in Different Instant Messaging. *Houston Human Factor and Ergonomics Society 2016 Symposium*, Houston, Texas.

8. Dabiran, Y., Navuluri, S., Piya, S., **Li, Y.**, Craig, B. (2016). Music Ergonomics: A Study on Violin/Viola Shoulder Rest. *Houston Human Factor and Ergonomics Society 2016 Symposium*, Houston, Texas.

9. Johnson, S., **Li, Y.**, Jeon, Y., Kim, Y-J., & Nam, C.S. (2008). A P300-Based Brain-Computer Interface (BCI): Towards a Non-muscular Communication System for People with Neuromuscular Impairments. *Arkansas Chapter of the Society for Neuroscience Annual Meeting*, Little Rock, AR.

## Teaching Experience

**Lamar University** **Beaumont, TX**

***Assistant Professor***

***Undergraduate***

INEN 2373 Engineering Economics (*Fall 2015, Spring 2015, Fall 2016, Fall 2017, Summer 2017*)

INEN 4320 Statistical Decision Making (*Spring 2015, Spring 2016, Spring 2017, Spring 2018*)

INEN 4376 Occupational Ergonomics (*Fall 2014, Fall 2015, Fall 2016*)

ENGR 4301 Work Design (*Fall 2014*)

***Graduate***

INEN 5382 Enterprise Business Intelligence *(Spring 2018)*

INEN 5376 Occupational Ergonomics (*Fall 2014, Fall 2015, Fall 2016, Fall 2017*)

INEN 5301 Human-Computer Interaction (*Spring 2015, Spring 2016, Spring 2017*)

INEN 5320 Statistical Decision Making (*Spring 2015, Summer 2015, Spring 2016, Summer 2016, Spring 2017*)

INEN 5374 Human Factors Engineering (*Summer 2015, Summer 2016*)

**North Carolina State University** **Raleigh, NC**

***Teaching Assistant***

ISE 352 Work analysis and design (undergraduate) (*Fall 2013, Spring 2014)*

ISE 540 Human factors in systems design (graduate), *Spring 2013*

**Henan Polytechnic University** **Jiaozuo, China**

***Faculty (Lecturer)***

Theory of Circuit (*Spring 2002)*

C programming (*Spring 2002, Spring 2003)*

Theory of Robotics (*Fall 2002)*

Theory of Control (*Fall 2001)*

Theory of transducer (*Fall 2001, Fall 2002)*

Theory of Electronic Technology *(Spring 2001)*

Design of Experiment (*Spring 2001)*

Special English for Electronics (*Fall 2000)*

Introduction to Computers (*Fall 2000)*

## Professional Experience

**Lamar University** **Beaumont, TX**

*Assistant Professor of Industrial Enginering (Aug 2014-present)*

- Found Human-Computer Interaction (BCI) Lab
- Found Neuroergonomics Lab
- Co-Direct Human Factor & Ergonomics Lab

**North Carolina State University** **Raleigh, NC**

*Research Assistant, Teaching Assistant (Aug 2011-Aug 2014)*

- Develop vabrotactile-user interface
- Develop SSVEP-based brain-computer interface (BCI)

- Develop collaborative SSVEP-based BCI
- Develop adaptive SVM algorithm for online BCI

**University of Arkansas** **Fayetteville, AR**

*Research Assistant (Aug 2006-Aug 2011)*

- Develop haptic-user interface for people with visual impairment (National Science Foundation funded research)
- Develop P300-based brain-computer interface (BCI)
- Develop intelligent multi-agent user interface

**Blue Light Corporation** **Ningbo, China**

*Marketing Manager (Feb 2006–Aug 2006)*

- Design marketing strategy for south China
- Design pricing system for south China
- Build marketing network in South China

**Nanjing University of Aeronautics & Astronautics** **Nanjing, China**

*Research Assistant (Sep 2003-Feb 2006)*

- Analyze the industry structure of Jiaozuo City, Henan Province
- Build a dynamic system model with gray system theory
- Design the system goal of the economy development

**Henan Polytechnic University** **Jiaozuo, China**

*Faculty (Lecturer), (Jul 2000–Aug 2003)*

- Serve as mentor of more than 150 undergraduates
- Participate in multiple research projects

## Services

**Professional & Community Service**

- **Journal Reviewer:** Brain-Computer Interfaces (since 2014), IEEE Computational Intelligence Magazine (CIM) (since 2016), Virtual Reality Journal (since 2016), Neural Computing and Applications (since 2016), Journal of Clean Energy (since 2016), Springerplus (since 2016),
- **Conference Proceedings Reviewer:** HFES 2015, HFES 2016, HFES 2017
- **Panels:** NSF GRFP Panels (2016)
- **Conference Session/Track Chair/Co-chair:** ACTG HFES 2016, CEDM HFES 2016, AHFE 2017, Southwest HFES Symposium 2017

**University Service**

- **Graduate Advisor:** Advise graduate student courses in Department of Industrial Engineering at Lamar University.
- Advise senior design projects for undergraduate.
- Assist Industrial Engineering Open House to local high school students.
- Assist new faculty hiring in Department of Industrial Engineering at Lamar University.

## Affiliates

Human Factor and Ergonomics Society (HFES)

Institute of Industrial Engineers (IIE)

Committee of Safety and Operations in Texas Department of Transportation

TEES (Texas A&M Engineering Experiment Station)

## Research Funding

- Zhang, J., Wang, S., **Li, Y.**, "MRI: Acquisition of a Hybrid CPU/GPU High Performance Computing Cluster for Research and Education at Lamar University", $516,031, National Science Foundation, 9/2017 – 8/2020.

- Xiang, Y., **Li, Y.**, "Integrated Framework of Degradation-based Reliability Modeling and Adaptive Maintenance Logistics", $5000, Research Enhancement Grant, Lamar University, 9/2017 – 8/2018.

- **Li, Y.,** Peterson, D., Petroff, N., "Robotic Exoskeleton for Rehab", $2,500, Texas A&M Engineering Experiment Station (TEES), 6/2017-6/2018.

- Zhu, W., **Li, Y.**, "3D Printing a Prosthetic Hand for a Rehabilitation System", $2,100, Gill Foundation, 6/2016 – 12/2016.

- **Li, Y.**, "Research on Work-Related Musculoskeletal Disorders (MSDs) in Port Industry", $28,150, Center for Advances in Port Management, 1/2016 – 7/2017.

- **Li, Y.**, "Develop a Haptically Rendered and Game-Based Science Learning System for People with Visual Impairment", $5000, Research Enhancement Grant, Lamar University, 9/2015 – 8/2016.

## Graduate Advising

**Doctor of Engineering Advisor**

- Guanlong Li, Doctoral of Industrial Engineering, Lamar University, Since Jan 2016

**Master Thesis Advisor**

- Anirudh Juloori, Master of Industrial Engineering, Lamar University, Since Sep 2015
- Saishyam Akurke, Master of Industrial Engineering, Lamar University, Since Sep 2015
- Vishnu Mahesh, Master of Industrial Engineering, Lamar University, graduated in Aug 2017
- Yalda Dabiran, Master of Industrial Engineering, Lamar University, graduated in Aug 2017
- Karankumar Modi, Master of Industrial Engineering, Lamar University, Since Jan 2017
- Md Manjurul Ahsan, Master of Industrial Engineering, Lamar University, Since Feb 2017
- Nirupom Paul, Master of Industrial Engineering, Lamar University, Since Aug 2017

**Master Thesis Committee**

- Bipul Mainali, Master of Civil Engineering, Lamar University, Since Jan 2018
- Krishna Sowjanya Pallem, Master of Industrial Engineering, Lamar University, Since Feb 2016
- Sumit Piya, Master of Industrial Engineering, Lamar University, graduated in May 2017
- Prachi Kshirsagar, Master of Electrical Engineering, Lamar University, graduated in May 2017

**Doctor of Engineering Committee**

- Mehmet Burak Cankaya, Doctoral of Industrial Engineering, Lamar University, graduated in Aug 2017
- Abrash Abedi, Doctoral of Industrial Engineering, Lamar University, graduated in May 2017
- Ankit Lakshmanan Iyer, Doctoral of Industrial Engineering, Lamar University, Since Nov 2016
- Yue Shi, Doctoral of Industrial Engineering, Lamar University, Since Aug 2017

**Doctoral of Philosophy Committee**

- Yan Fang, Ph.D of Chemical Engineering, Lamar University, Since April 2016