

Dr. Jibo HE

Tenured Associate Professor

CONTACT INFORMATION

Department of Psychology
Wichita State University
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<http://www.usee.tech>

ACADEMIC POSITIONS

Tenured Associate Professor, Dept. of Psychology Wichita State University	2017-present
Assistant professor, Dept. of Psychology, Wichita State University	2012-2017
Entrepreneurship Incubator Partner, iBeeHub Incubator, New York	2016-present
Invited guest professor, Dept. of Psychology, Peking University	2014-present
Research scientist, Transportation Research and Innovation Lab, State Farm Insurance Company	2010-2012
Microsoft Research Asia	2006

EDUCATION

PhD, Psychology	University of Illinois	2007-2012
MA, Psychology	University of Illinois	2007-2010
BA, Economics	Peking University	2004-2007
BS, Psychology	Peking University	2003-2007

EXPERTISE

Programming Languages

Proficient in Python, Java, Matlab (Psychtoolbox), Objective-C, Swift;
Familiar with C++, PHP, HTML, CSS, Lisp, Act-R, E-Prime, Presentation, Latex;
Smartphone development for iPhone, Android, Android Wear, Google Glass

Statistics Packages

SAS, SPSS, R

User Experience Research

Eye-tracking experiment design and data analysis
Focus group, Paper prototyping, Cognitive task analysis, Heuristic evaluation, Card sorting, A/B testing, Usability benchmarking etc.

User Interface Design

Morae, Photoshop, Axure, Persona, Invision, JustInMind

RESEARCH INTERESTS

- Experimental Psychology
- Cognitive Psychology
- Human factors
- Driver distraction

- Driver fatigue
- Aviation safety
- Eye movement
- Human-machine interaction
- Visual cognition
- Attention
- Computer vision
- Usability
- Mobile devices
- Augmented reality
- Virtual reality
- Mixed reality

PATENTS

- Fields B M, **He J**, Nepomuceno J A, et al. (2016). Real-time driver observation and scoring for driver's education: U.S. Patent 9,275,552[P]. 2016-3-1.
- He, J.** & Ren, Z.Q. (2015). Vehicle operator impairment detection system and method. Serial No. 62/151,765; Filed April 23, 2015; Docket No. 46841-PRO.
- He, J.**, Fields, B. M., Roberson, S., Cielocha, S., Peng, J., & Coltea, J. (2015). System and method to monitor and reduce vehicle operator impairment. U.S. Patent No. 8,981,942. Washington, DC: U.S. Patent and Trademark Office. 17 Mar. 2015.
- He, J.**, Fields, B. M., Roberson, S., Cielocha, S., Peng, J., & Coltea, J. (2015). System and method to adjust insurance rate based on real-time data about potential vehicle operator impairment. U.S. Patent No. 8,930,269. 6 Jan. 2015.
- Plummer, B. A., Brown, P. A., **He, J.**, Fields, B. M., Roberson, S., Cielocha, S., & Peng, J. (2016). Systems and methodologies for real-time driver gaze location determination and analysis utilizing computer vision technology. U.S. Patent No. 9,275,532. 1 Mar. 2016.
- He, J.**, & Patterson, J.. Non-invasive biofeedback system. U.S. Patent No. 20,160,066,835. 10 Mar. 2016.
- He, J.** & Chaparro, B. (Patent pending). Computer program, system, and method for observation and communication for mobile settings, mobile applications, and wearable mobile devices; Serial No. 62/069,005; Filed October 27, 2014; Docket No. 46799-PRO
- He, J.**, Chaparro, B., & Wang, L. (Patent pending). Lens mount for a wearable mobile device; Serial No. 62/069,027; Filed October 27, 2014; Docket No. 46840-PRO

REFEREED JOURNAL PUBLICATIONS

- He, J.**, Choi, W., Yang, Y., Lu, J.S., Wu, X.H., & Peng, K.P. (in press). Detection of Operator Drowsiness Using Google Glass. *Applied Ergonomics*. [SCI Index, SJR Rank = Q1, Impact Factors = 1.713].
- Maiti, A., Jadliwala, M., **He, J.**, & Bilogrevic, I. (in press). Side-Channel Inference Attacks on Mobile Keypads using Smartwatches, *IEEE Transactions on Mobile Computing*. [SCI Index, SJR Rank = Q1, Impact Factors = 2.456].
- Sanchiz, M., Chin, J., Chevalier, A., Fu, W. T., Amadiou, F., & **He, J.** (2017). Searching for information on the web: Impact of cognitive aging, prior domain knowledge and complexity of the search problems. *Information Processing & Management*, 53, 281–294. [SCI, SSCI Index, Impact Factors = 1.397].
- Turner, C. J., Chaparro, B. S., & **He, J.** (2016). Text Input on a Smartwatch

- QWERTY Keyboard: Tap vs. Trace. *International Journal of Human– Computer Interaction*, 1-8. [SCI,EI Index, SJR Rank = Q1, Impact Factors = 1.476].
- Wu, X.H., He, J.*, Ellis, J., Choi, W., Wang, P.F., & Peng, K.P., & (2016). Which is a Better In-Vehicle Information Display? A Comparison of Google Glass and Smartphones. *IEEE Journal of Display Technology*.12 (11), 1364-1371. [SCI,EI Index, Impact Factors = 1.925].
- Wang, W., Hernandez, I., Newman, D. A., He, J., & Bian, J. (2016). Twitter Analysis: Studying US Weekly Trends in Work Stress and Emotion. *Applied Psychology*, 65(2), 355-378. [SCI Index, SJR Rank = Q1, Impact Factors = 1.179].
- Goldstein, G., He, J., Ruthven, L., & Walker, J. (2016). An Introduction to the Ruthven Impairment Assessment (RIA): A Stability Study. *Applied Neuropsychology: Adult*, 1-7. [SCI Index, Impact Factors = 0.694].
- He, J., Chaparro, A., Wu, X., Crandall, J., & Ellis, J. (2015). Mutual interferences of driving and texting performance. *Computers in Human Behaviors*, 52, 115-123. [SSCI Index, Impact Factors = 2.880].
- He, J. Choi, W., McCarley, J.S., Chaparro, B., & Wang, C. (2015). Texting while driving using Google Glass: Promising but not distraction-free. *Accident Analysis & Prevention*, 81,218-229. [EI Index, SRJ Rank = Q1, Impact Factors = 2.070].
- Cheng, Z., Zhuo, G., Yue, Z., & He. J. (2015). Own-race faces capture more attention than other-race faces: Evidence from response time and N2pc ERP signal. *PLOS ONE*. 10(6):e0127709. doi:10.1371/journal.pone.0127709. [SCI Index, Impact Factors = 3.54].
- Wang, W., & He, J. (2015). Smartphones: A game changer for psychological research. *Journal of Ergonomics*. 5(2). doi: 10.4172/2165-7556.1000e136
- He, J., Chaparro, A., Nguyen, B., Burge, R. J., Crandall, J., Chaparro, B., Ni, R., & Cao, S. (2014). Texting while driving: Is speech-based text entry less risky than handheld text entry? *Accident Analysis & Prevention*, 72, 287-295. [EI Index, SRJ Rank = Q1, Impact Factors = 2.070].
- He, J., Choi, W., & Ellis, J. (2014). Driving and texting performance when drivers text behind the wheel. *Journal of Ergonomics*, 3,1-2.
- He, J., McCarley, J. S., & Kramer, A.F. (2014). Lane keeping under cognitive distraction: Performance changes and mechanisms. *Human Factors*, 56, 414-26. [SCI, SSCI Index, SRJ Rank = Q2, Impact Factors = 1.370].
- He, J., Bryant, L., Stover, C., & Patterson, J.A. (2014). Measuring heart rate with webcam and mobile devices: A performance validation study. *International Journal of Applied Science and Technology*.
- He, J., Roberson, S., Fields, B., Peng, J., Cielocha, S., & Coltea, J. (2013). Fatigue detection using smartphones. *Journal of Ergonomics*, 3, 1-7.
- He, J. (2013). Head-up display for pilots and drivers. *Journal of Ergonomics*, 3, 1-2.
- He, J. (2013). Drowsiness detection and management. *Journal of Ergonomics*, 3, 118.
- He, J., Becic, E., Lee, Y.C., & McCarley, J. S. (2011). Mind wandering behind the wheel: Performance and oculomotor correlates. *Human Factors*, 53, 13-21. [SCI, SSCI Index, SRJ Rank = Q2, Impact Factors = 1.370].

- He, J.**, & McCarley, J. S. (2010). Executive working memory load does not compromise perceptual processing during visual search. *Attention, Perception, & Psychophysics*, 72, 308-316. [SCI, SSCI Index, Impact Factors = 1.782].
- Fu, W.T., Kannampalli, T. G., Kang, R., & **He, J.** (2010). Semantic imitation in social tagging. *ACM Transactions on Computer-Human Interaction*, 17, 1-37.
- He, J.**, Li, N., & Li, T. (2010). Adult attachment and incidental memory for emotional words, *Interpersona: an international journal on personal relationships*, 4 (suppl. 1), 1-20.
- Li, N., **He, J.**, & Li, T. (2009). Gender difference of insecure attachment: Universal or culture-specific? *Behavioral and Brain Sciences*, 32, 36-37. [SCI, SSCI Index, Impact Factors = 20.415].
- Li, T., Wan, L., **He, J.**, Qin, H.P., Guo, X.F., & Wang, .X.N. (2008). Attachment style, social support and loneliness of college students, *Chinese Journal of Behavioral Medicine*, 17, 1115-1117.
- Li, T., **He, J.**, Guo, X.F., & Lu, X.M. (2006). Adult attachment and social support of self-learning students, *Chinese Journal of Behavioral Medicine*, 15, 1019-1020.

MANUSCRIPT UNDER REVIEW

- Turner, C.J., Chaparro, B.S., **He, J.** (submitted). Text Entry on a Smartwatch QWERTY Keyboard While Walking.
- Cao, S., Ho, A.S., & **He, J.** (submitted). Modeling and predicting mobile phone touchscreen typing using an intergraded cognitive architecture.
- Liu, X.F., Zhang, Q., & **He, J.** (submitted). Claiming to be Good in Parts or in Whole? The Joint Effect of Headline and Body Copy on Ad Effectiveness. *Journal of Business Research*
- He, J.**, Wu, X.H., Crager, K., Yang, Y., McCarley, J.S., Jadliwala, M. ,Peng, K.P., (invited publication.) Do wearable devices bring distraction closer to drivers? comparing smartphones and Google Glass. *Applied Ergonomics*.
- Maiti, A., Murtuza, J., **He, J.** & Bilogrevic, I. (under review). Side-channel inference attacks on mobile keypads using smartwatches. *Transactions on Information Forensics & Security*.
- He, J.**, Sun, Q., Persinger, J., & Ni, R., & Jadliwala, M. (under review). Does smartwatch bring distractions closer to drivers? *PLOS ONE*.
- Ren, Z. Deng, Y., Dai, **He, J.** (under review). A deep learning framework to detect cell-phone usage while driving. *IEEE Transactions on Human-Machine Systems*
- He, J.**, Wu, X.H., Chaparro, A., Peng, K.P., & Zhou, R.G. (under review). Texting while driving: Attention share or attention switch? *Computers in Human Behavior*.
- Sun, Q., Xia, J.H., **He, J.**, Foster, J., Falkmer, T., & Lee, H. (under review). Towards Unpacking Older Drivers' Visual-motor Coordination: A Gaze-based Integrated Assessment System. *Geriatrics*.
- He, J.**, Chaparro, B., Persinger, J., Haskins, C., & Ellis, J. (under writing). A Data Logging Toolkit for Mobile Usability Research: A Case Study. *Journal of Usability Studies*

REFERED PROCEEDINGS

- Anindya Maiti, Kirsten Crager, Murtuza Jadliwala, and **Jibo He**, "RandomPad: Usability of Randomized Mobile Keypads for Defeating Inference Attacks", to appear in the *Proceedings of the IEEE EuroS&P Workshop on Innovations in Mobile Privacy & Security (IMPS)*, Paris, France, April 2017.
- Maiti, A., Armbruster, O., Jadliwala, M., & **He, J.** (2016). Smartwatch-Based Keystroke Inference Attacks and Context-Aware *Protection Mechanisms*. *The Proceedings of the 11th ACM on Asia Conference on Computer and Communications Security (ASIACCS)*, Xi'An, China, May 30 – June 3, 2016.
- Maiti, A., Murtuza, J., **He, J.** & Bilogrevic, I. (2015). (Smart) watch your taps: A comprehensive study of side-channel keystroke inference attacks on modern touchpads using smartwatches. *Annual Computer Security Applications Conference*. Los Angeles, CA, December 7-11, 2015.
- Anindya Maiti, Murtuza Jadliwala, **Jibo He**, and Igor Bilogrevic. "(Smart)Watch Your Taps: Side-Channel Keystroke Inference Attacks using Smartwatches," *ACM International Symposium on Wearable Computers (ISWC)*, 2015.
- Rafi, M., Chandrasekaran, B., Kusmez, B., Steck, J. E., & **He, J.** (2016). A Dynamic Heads-Up Air Traffic Locator & Collision Advisory Display Using Google Glass. In *AIAA Guidance, Navigation, and Control Conference* (p. 1627-1635).
- Gannon, E., Chaparro, B., **He., J.**, Gao, X.F. (2016). RSVP reading on a smart watch. *Proceedings of Human Factors and Ergonomics Society*, Washington DC, September 19–23, 2016.
- He, J.** , Chaparro, B., Zhong, Q. (2016). Tools and techniques for assessing mobile user experience. *The Conference of User Experience Professionals Association*, Seattle, WA.
- Wang, W., Hernandez, I., Newman, D. A., **He, J.** & Bian, J. (2016). Twitter analysis: U.S. weekly trends in work stress and emotion. *The 31st Annual Conference of the Society for Industrial and Organizational Psychology*, Anaheim, CA.
- Wang, W., Zeman, B., Bian, J., & **He, J.** (2015). Happiness on Twitter: Are emotions contagious across geographic boundaries? *The 4th World Congress on Positive Psychology*. Lake Buena Vista, FL.
- He, J.**, Choi, W., Yang, Y., & Ren, Z.Q. (2015). Detection of Operator Drowsiness Using Google Glass. *Proceedings of Human Factors and Ergonomics Society*, Los Angeles, U.S.A., October 26–30, 2015.
- He, J.**, Ellis, J., Choi, W., Wang, P.F., & Simons, D. (2015). Driving while reading using google glass versus using a smartphone: Which is more distracting to driving performance? *The 8th International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design*, Snowbird, Salt Lake City, Utah, USA, June 22-25, 2015.
- Chaparro, B., **He, J.**, Turner, C., & Turner, K. (2015). Is touch-based text input practical for a smartwatch? *17th International Conference on Human-Computer Interaction*, Los Angeles, CA, USA, 2-7 August 2015.
- Phan, M., **He, J.**, & Chaparro, B. (2015). Can you judge a video game by its cover? An exploration of subjective impressions and eye movement patterns.

17th International Conference on Human-Computer Interaction, Los Angeles, CA, USA, 2-7 August 2015.

- Canare, D., Chaparro, B., & He, J. (2015). A comparison of gaze-based and gesture-based input for a point-and-click task. *17th International Conference on Human-Computer Interaction*, Los Angeles, CA, USA, 2-7 August 2015.
- He, J., Chaparro, A., Crandall, J., Turner, C., Turner, K., & Ellis, J. (2014). Mutual interferences of driving and texting performance. *Proceedings of Human Factors and Ergonomics Society*, Chicago, IL, October 27–31, 2014.
- He, J., Chaparro, B., & Haskins, C. (2014). USee: A mobile usability research tool using Google Glass. *Proceedings of Human Factors and Ergonomics Society*, Chicago, IL, October 27–31, 2014.
- He, J., Ang, C. W., Miller, A. J., Maddali, V., Gaspar, J. G., Carbonari, R. S., ... & Mathewson, K. E. (2014). Keep your mind on the road: Predicting mind-wandering while driving using classification of pre-probe oscillatory brain activity and driving performance. *Journal of Vision*, *14*(10), 635-635.
- He, J., Chaparro, A., Nguyen, B., Burge, R., Crandall, J., Chaparro, B., Ni, R., & Cao, S. (2013). Texting While Driving: Is Speech-Based Texting Less Risky than Handheld Texting? *Automotive User Interfaces and Interactive Vehicular Applications*, Eindhoven, Netherlands, October 28 – 30, 2013.
- He, J., Fields, B., Peng, J., Cielocha, S., Coltea, J., & Roberson, S. (2013). Driver fatigue detection using a webcam or a smartphone. *Proceedings of the 6th the Eye, the Brain and the Auto World Research Congress*, Dearborn, MI, September 16 - 18, 2013.
- He, J., Fields, B., Peng, J., Cielocha, S., Coltea, J., & Roberson, S. (2013). Fatigue detection using smartphones. *International Conference on Psychology and Application*, Beijing, China, August 14-16, 2013.
- Ren, Z. Q., Wang, C. & He, J. (2013). Vehicle detection using Android smartphones. *7th International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design*. Bolton Landing, New York, June 17-20, 2013.
- He, J., & McCarley, J. S. (2011). Effects of cognitive distraction on lateral lane keeping performance. *Proceedings of Human Factors and Ergonomics Society*, Las Vegas, NV, September 19-23, 2011.
- **Best paper award**
- Fu, W.T., He, J., Kannampallil, T., & Kang, R. (2009). Conformity out of diversity: Effects of different information goals on tagging behavior. *International Conference of Human-Computer Interactions*, San Diego, CA, July 19-24, 2009.
- Kang, R., Kannampallil, T., He, J., & Fu, W.T. (2009). Conformity out of diversity: Dynamics of information needs and social influence of tags in exploratory information search. *International Conference of Human-Computer Interactions*, San Diego, CA, July 19-24, 2009.
- He, J., Becic, E., Lee, Y.-C., & McCarley, J. S. (2009). Identifying mind-wandering behind the wheel. *Proceedings of Human Factors and Ergonomics Society*, San Antonio, Texas, October 19-23, 2009
- He, J. (2008). SurfLogger: A logging browser and data processing method in

web-based studies. *Proceedings of Society of Computer in Psychology*, Chicago, IL, November 13, 2008.

Wang, S., Jing, F., He, J., & Yang, J. (2007), IGroup: Presenting Web Image Search Results in Semantic Clusters. *Proceedings of the 2007 Conference on Human Factors in Computing Systems*, San Jose, California, USA, April 28 - May 3, 2007.

Jing, F., Wang, S., He, J., Du, Q., & Zhang, L. (2007). Long Query Suggestion List: Prioritized or Organized. *Proceedings of 12th HCI International*. Beijing, China.

REFERED CONFERENCE ABSTRACTS

Chin, J., Chevalier, A., He, J., & Fu, W.T. (2014, April). *Linking knowledge in the head to knowledge in the world: Age differences in web exploration with the search engine*. Paper presented at the Cognitive Aging Conference. Atlanta, GA.

He, J. (2014, September). *Mobile technology to monitor drowsiness*. Paper presented at the 71th Annual Kansas Public Health Association Fall Conference, Topeka, KS.

Choi, W., He, J., & Ellis, J. (2014, April). *Does more attention improve or impair lane keeping performance?* Paper presented at the Capitol Graduate Research Summit, Topeka, KS.

* WSU Graduate School Scholarship for the Capitol Graduate Research Summit.

He, J., Chaparro, A., Crandall, J., Turner, C., Turner, K., & Ellis, J. (2014, April). *Mutual Interferences of Driving and Texting Performance*. Paper presented at the Capitol Graduate Research Summit, Topeka, KS.

He, J., Fields, B., Peng, J., Cielocha, S., Coltea, J., & Roberson, S. (2013, September). *Drive fatigue detection using a webcam or a smartphone*. Paper presented at the Eye, the Brain & the Auto, Ann Arbor, MI.

He, J., & McCarley, J. S. (2008, November). *The role of executive working memory in visual search: What difference does high load make?* Poster presented at the 16th Annual Conference on Object Perception, Attention, and Memory, Chicago, IL.

He, J., & McCarley, J. S. (2008, November). *Does short-term memory load influence visual search? An Oculomotor study*. Poster presented at the 20th Annual Convention of the Association for Psychological Science, Chicago, IL.

Li, T., He, J., Li, N. (2006, July). *Adult attachment and incidental memory for emotional words*. Paper presented at Biannual International Conference of the International Association for Relationships Research (IARR). Rethymnon, Greece.

BOOK CHAPTERS

He, J., Chaparro, B., Siu, C., & Strohl, J. (2014). Mobile eye tracking. In Bergstrom, J.R. & Schall, A. (Eds.), *Eye Tracking in User Experience Design*. Burlington, MA: Morgan Kaufmann.

He, J. (2009). Behavioral and physiological measures of user experience. In Zhou, R.G. (Eds.), *Measure User Experience*. Beijing, China: Mechanical Industrial

Publisher.

TECHNICAL REPORTS

- He, J.** (2013). Visual Behaviors and Vehicle Dynamics of Driver Fatigue. Technical report for the Intelligent Vehicle Group at State Farm Insurance.
- He, J.** (2012). Driver fatigue detection with a webcam - Technical implementation. Technical report for the Intelligent Vehicle Group at State Farm Insurance.
- He, J.** (2012). Framework for detection of driver fatigue and distraction. Technical report for the Intelligent Vehicle Group at State Farm Insurance.

INVITED PRESENTATIONS

- He, J.** (2013). Visual behaviors and vehicle dynamics of drowsy drivers. Presented at State Farm Insurance.
- He, J.** (2012). Use Automations to Help Impaired Drivers. Invited talk at the HumanFirst program at the University of Minnesota.
- He, J.** (2012). Drowsy Alert: Detect Driver Fatigue Using Smartphones. innovationReady presentation at State Farm Insurance.
- He, J.** (2011). "State Farm is there" with Distracted Drivers. Invited talk at State Farm Insurance.

FUNDING (TOTAL FUNDED AMOUNT: \$ 1,008,621)

Co.PI. Youth Fund of Natural Science Foundation of China (2017---2019);
The Development of User Experience Model of Information Visualization and Its Application;
Award amount: RMB 210, 000 (equivalent to \$ 30,484)

PI. Federal Aviation Administration Center of Excellence (2016-2019)
The Use of Head-Mounted Display and Wearable Devices in Simulator-based Pilot Training.
Award amount: \$ 289,908

Co. PI. National Science Foundation (NSF) (2016)
CSR: Small: Surviving Cybersecurity and Privacy Threats in Wearable Mobile Cyber-Physical Systems (REU supplement)
Award amount: \$ 23,044

Co. PI. National Science Foundation (NSF) (2016-2019)
EAGER: A Cloud-assisted Framework for Improving Pedestrian Safety in Urban Communities using Crowd-sourced Mobile and Wearable Device Data
Award amount: \$287,925

Co. PI. National Science Foundation (NSF) (2015-2018)

Surviving Cybersecurity and Privacy Threats in Wearable Mobile Cyber-Physical Systems.

Award amount: \$380,000

P.I. Vigo Technologies Inc. (2015)

On-road driving study to evaluate a wearable Bluetooth headset to monitor driver fatigue (Phase 2)

Amount: \$17,325

P.I. Vigo Technologies Inc. (2015)

Use wearable Bluetooth headset to monitor driver fatigue (Phase 1)

Amount: \$9,681

P.I. Kansas Innovation Award (2015)

Develop mobile usability toolkit for usability research, and enhance uSee Glass for usability observation

Amount: \$10,000

Co-P.I. Chinese National Science Foundation (2014-2016)

Driver inattention state detection based on gaze concentration

Amount: \$37,000 (230,000 RMB)

P.I. State Farm Insurance Company (2014)

Optimize the smartphone-based collision warning system for nighttime performance.

Amount: \$67,869.

P.I. State Farm Insurance Company (2014)

Development of a collision warning system using iPhone and Android.

Amount: \$64,270.

Co-P.I. John A See Research Award (2014)

Wearable Computing and Smart Phone Apps for Pilot Safety

Amount: \$10,000

Co-P.I. Wesley OB-GYN Hospital (2014 - 2015)

E-Whiteboard and Google Glass Application

Amount: \$ 25,270

P.I. Preferred Mental Health Management, LLC (2014)

Validate the Ruthven Impairment Scale

Amount: \$1,500

Co.P.I. Regional Center for Transportation Research, Department of Transportation (2014)

Evaluate how texting using Google Glass influences driving performance

Amount: \$17,748

P.I. Wichita State University-Award for Research/Creative projects (2014)

Develop a Google Glass application to detect fatigue for pilots and drivers

Amount: \$4,000

P.I. Wichita State University-Multidisciplinary Research Project Award (MURPA)
(2013)

Validate the accuracy and reliability to measure heart rate remotely with a webcam or a smartphone

Amount: \$7,500

P.I. State Farm Insurance Company (2012 - 2013)

Identify visual indicators and vehicle dynamics of driver fatigue

Amount: \$30,000

AWARDS AND HONORS

Innovation Award: Newsmaker, WSU	10/2015
Innovation awards by Wichita Business Journal	02/2015
Kansas Innovation Award, WSU	01/2015
Faculty of Excellence Award, WSU	11/2014
John A See Research Award (\$10,000), WSU	05/2014
Health Care Innovation Award (\$7,000), WSU	05/2014
Technology Innovation Award (\$7,000), WSU	05/2014
Coleman Entrepreneurship Fellow, WSU	08/2013
Most Valuable Graduate Award, UIUC	08/2012
Best student paper award, Human Factors & Ergonomics Society	09/2011
Outstanding Internship Award, State Farm Insurance	08/2011
Graduate College Travel Fund, UIUC	09/2009
Birnbaum Fellow, Society for Computer in Psychology	11/2008
Graduate College Travel Fund, UIUC	10/2008
Psychology Department Travel Fund, UIUC	09/2008
Herbert Woodrow Fellowship, UIUC	04/2008
Outstanding Involvement Human Factors Ergonomics Society, UIUC	09/2007
Cherry 21st Century Scholarship, Peking University	10/2006
Excellent Student Leadership, Peking University	10/2006
Star of Tomorrow Internship Award, Microsoft	09/2006
Karamay Scholarship, Peking University	10/2005
Excellent Individual in Social Practice, Peking University	10/2005
President's Undergraduate Research Fellowship, Peking University	05/2005
Dean's Award for Academic Excellence, Peking University	10/2004
Excellent Members of the Students Service Team, Peking University	10/2004

MEDIA COVERAGE

Dr. Jibo He's work and research lab have received academic recognition and media attention. More than twenty media have reported Dr. He's work in driving safety and mobile technology, including Bloomberg News, Kansas City Star, Glass Almanac, New York Public Radio, APA Monitor, Insurance News, KAKE News, Wichita Business Journal, Wichita Eagle, KFDI news etc.

AD HOC REVIEWER

Human Factors

Journal of Experimental Psychology: Applied

Safety Science

International Journal of Internet Science

The Annual Meeting of the Cognitive Science Society

Acta Psychologica Sinica

International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design

The Conference on Psychology and Applications

IEEE Transactions on Human-Machine Systems

Human Factors and Ergonomics Society Conference

Transportation Research Part F: Traffic Psychology and Behavior

IEEE Transactions on Intelligent Transportation Systems

New School Psychology Bulletin's Editorial Board

International Conference on Psychology and Application

TEACHING EXPERIENCE

I am rated as a full five-star professor for my teaching in RateMyProfessor.com
See it at <http://www.ratemyprofessors.com/ShowRatings.jsp?tid=1901092>

Graduate Courses:

Engineering Psychology

Computer Application for Social Science

Human Factors and Engineering Psychology

Advanced Statistics for Psychology

Social Cognition

Undergraduate courses:

System and Theories

General Psychology

Industrial/Organizational Psychology

Human Factors

Introduction to Statistics

Vision and Space Lab

Introduction to Psychology

Psychology of Love

WORK EXPERIENCE

Research Scientist State Farm Insurance; Champaign, IL 2010-2012

- Conduct user experience study of online quote system
- Lead the development of smartphone applications for driver fatigue and distraction detection using Android and iPhone

Software Developer SR Research Inc.; Toronto, CANADA 2010

- In charge of developing a statistics software for the analysis of eye movement data using Python and PyQt.

Usability Researcher EPTCO Group; Champaign, IL 2009-2012

- Optimize an e-commerce website for better search engine rank and user experience.

Research Assistant Accounting Department, UIUC; Champaign, IL 2009

- In charge of questionnaire design and data analysis.
- Data-mining a huge pdf files.

Research Scientist Microsoft Research; Beijing, CHINA 2006

- In charge of HTML coding and user interface design for “Lyra”, a web search engine
- In charge of user test design and paper writing for “Lyra” & “IGroup”
- Excellent evaluation for my internship program
- Two papers named “Long Query Suggestion List: Prioritized or Organized” and “Presenting Web Image Search Results in Semantic Clusters” are respectively accepted by the top conferences in ACM Human Computer Interaction (HCI)

ACADEMIC AFFILIATION

- Human Factors and Ergonomics Society
- American Psychological Society
- Vision Science Society
- User Experience Professionals Association