

Jiabin Zhu, Ph.D.

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Education

Purdue University (Ph. D. in Engineering Education) West Lafayette, Indiana, US	May 2013
Purdue University (M.S. in Biomedical Engineering) West Lafayette, Indiana, US	Dec 2008
Chinese Academy of Sciences (M.S. in Optics) Shanghai, China	July 2006
East China Normal University (B.S. in Physics) Shanghai, China	July 2003

Research and Teaching Positions

Assistant Director, Center for Education and Human Development, SJTU	2018-Now
Associate Professor, Graduate School of Education, SJTU	2017-Now
Assistant Professor, Graduate School of Education, SJTU	2013-2016
Research Assistant, School of Engineering Education, Purdue University	2009-2013
Teaching Assistant, the Graduate School, Purdue University	2010-2012

Chaired Projects

Educating Engineering Doctorates for Talent Training in the Process of Establishing Shanghai Science and Technology Innovation Center. Shanghai Educational Science Research Program. PI: Jiabin Zhu. 2021-2023.

上海市教育科学研究项目（2021）《针对上海科创中心高层次创新应用型工程人才缺口开展工程博士专业学位教育的困境与对策》

Program Design in Training the Excellent Engineers: Innovation and Entrepreneurship. Humanities and Social Science Program, Ministry of Education. Co-PI: Jiabin Zhu. No. 17JDGC008. 2017

教育部人文社会科学专项（2017）《面向工程技术人才培养的创新创业模式研究》

Evaluating Senior Design Projects: Design and Implementation of a Valid Instrument. Shanghai Jiao Tong University Educational Research Program. PI: Jiabin Zhu 2019-2020
No. JYJX200179

上海交通大学教育教学研究项目(2019-2020) 《针对本科毕业设计的评教量表构建及其有效性检验》

Shanghai Jiao Tong University Engineering Doctorates Evaluation Project (Commissioned by the Graduate School, SJTU) PI: Jiabin Zhu 2019-Now

上海交通大学非全日制工程博士评估项目 上海交通大学研究生院委托项目 2019-今

The International Learning Experiences and Learning Outcomes Measurement: Constructing a Working Pathway Analysis Model, PI: Jiabin Zhu. *Liberal Arts-Science Interdisciplinary Fund, Shanghai Jiao Tong University* No. 15JCMY05, 2015

上海交通大学文理交叉一般课题（2015）《工程学生国际化学习体验与学习成效测量：作用途径分析模型的构建》

Leadership Development for Engineering Students, PI: Jiabin Zhu. *Humanities and Social Science Program, Ministry of Education* No. 15YJC880147, 2015

教育部人文社科青年项目（2015）《工程人才的领导力培育研究》

The Impact of Educational Reform on Students' Epistemological Development in the Context of "PEOTO" Policy, PI: Jiabin Zhu. *Shanghai Philosophy and Social Science Program, Educational Division*. No. 2014JJY003

上海市哲学社会科学规划教育学专项（2014）《面向“卓越工程师”培养的教学改革对学生认知发展的影响研究》

The Impact of Teaching Innovations on Engineering Students' Cognitive Development, PI: Jiabin Zhu. *Shanghai Philosophy and Social Science Program*, No. 2014JJY003, 2014

上海市浦江人才计划C类（2014）《突破思维定势 培育创新精神：工程人才认知水平的测量与分析》

Selected Publications

Journal Articles

Zhu, J., Yu H., and Zheng T. (2021 forthcoming). Engineering Leadership in a Chinese Industrial Context: An Exploration Using the Four Capabilities Model. *Journal of Engineering Education* (SSCI and SCI indexed)

Zhu, J., Liu R., Liu Q., Zheng T., and Zhang Z. (2019) Engineering Students' Epistemological Thinking in the Context of Project-Based Learning. *IEEE Transactions on Education* (SCI indexed).

Zhu, J., Chen J., McNeill N., Zheng T., Liu Q., Chen B. and Cai J. (2019) Mapping Engineering Students' Learning Outcomes from International Experiences: Designing an Instrument to Measure Attainment of Knowledge, Skills, and Attitudes. *IEEE Transactions on Education*.

Zhu, J., Zhang G., and Liu, Q. (2019) A Study on the Project-based Teaching in Delft University of Technology. *Research in Higher Education of Engineering* 2019 (3) (In Chinese) (CSSCI indexed)

（朱佳斌，张国洋，刘群群，代尔夫特理工大学项目式教学的实践与启示. 高等工程教育研究，2019（3））

Zhu, J., Liu, Q., Liu, S. and Zhang, Z. (2019) A Study on the Engineering Students' Cognition Development and Its Influencing Factors in the Context of Engineering Educational Reform. *Research in Higher Education of Engineering* 2019 (6) (In Chinese) (CSSCI indexed)

朱佳斌，刘群群，刘少雪，张执南. 工程教育改革背景下工科学生认知发展现状与影响

因素研究, 高等工程教育研究, 2019 (6))

Zhu, J., Cox M.F. (2015) Epistemological Development Profiles among Chinese Engineering Doctoral Students in U.S. Institutions: An Application of Perry's Theory. *Journal of Engineering Education* 104, 345-362

Zhu, J., Li, Y., Cox, M.F., London, J., Hahn, J., and Ahn, B. (2013). Validation of a survey for graduate teaching assistants: Translating theory to practice. *Journal of Engineering Education*, 102, 426-443.

Zhu, J., Liu, Q., Cox M.F. (2016) An Empirical Study of Chinese Engineering Doctoral Students' Epistemological Development in U.S. Institutions: Applying Personal Epistemological Developmental Theory to Engineering Education Practice, *Research in Higher Education of Engineering* 2016 (1) (In Chinese) (CSSCI indexed)

(**朱佳斌**, 刘群群, 莫妮卡·库克斯. 认知发展理论在高等工程教育实践中的应用探析——基于留美中国工程博士认知发展的实证研究. 高等工程教育研究, 2016 (1))

Zhu, J., Van der Wende, M., Jiang, X. (2016) Challenges and Strategies for Chinese Higher Education in the Age of Globalization: A Qualitative Study. *Research on Education Tsinghua University* 2016 (3) (In Chinese) (CSSCI indexed)

(**朱佳斌**, 马瑞克·范德文德, 江小华. 全球化背景下中国高等教育的挑战与对策. 清华大学教育研究, 2016(3), 《新华文摘》数字版转载2017 (1))

Liu, Q., **Zhu, J.** (2015) A Comparative Study on European Engineering Master's Training Standards. *Academic Degrees and Graduate Education*, 2015(10), 71-77 (In Chinese). (CSSCI indexed)

(刘群群, **朱佳斌**. 欧洲工程人才培养标准比较研究. 学位与研究生教育, 2015(10), 71-77)

Besterfield, M.B., Cox, M.F., Borrego, M.J., Beddoes, K., & **Zhu, J.** (2015). Changing Engineering Education: Views of U.S. Faculty, Chairs, and Deans, *Journal of Engineering Education*, 103, 193-219.

Cox, M. F., **Zhu, J.**, Cekic, O., Chavela, R, and London, J. (2010). Knowledge or feelings: First-year students' perceptions of graduate teaching assistants in engineering. *The Journal of Faculty Development*, 24, 27-34.

Book/Book Chapters

Zhu, J., Zhang G. and Huang, Y. (2020) One Belt One Road: An Opportunity for Chinese Engineering Education to Go Global? In: China and Europe on the New Silk Road: Connecting Universities Across Eurasia. Edited by: Marijk van der Wende, William C. Kirby, Nian Cai Liu, and Simon Marginson, Oxford University Press.

Zhu, J. (2016) Understanding Chinese Engineering Doctoral Students in U.S. Institutions: A personal epistemology perspective. In the series of *East-West Crosscurrents in Higher Education*. Springer Singapore. (eBook available at <http://www.springer.com/us/book/9789811011351>)

Zhu, J., Yang, B., Liu, Q., Chen, B, (2015) International Summer Programs: An Innovative Learning Platform in a Chinese Context. In Joan A. Rhodes and Tammy M. Milby (Ed.) *Advancing Teacher Education and Curriculum Development through Study Abroad Programs*. IGI Global.

Cox, M.F., **Zhu, J.**, London, J., Hahn, J., and Ahn, B. (2012). Feedback about graduate teaching assistants' pedagogical practices: Content validation of a survey informed from principles of the "How People Learn" framework. In Greta Gorsuch (Ed.), *Working theories for teaching assistant and international teaching assistant development*. Stillwater, OK: New Forums Press.

Cox, M.F., **Zhu, J.**, Lynch, C., & Adams, S.G. (2012). Aligning the Ph.D. and Mentoring Experiences of U.S. Underrepresented Minority Students in Engineering. In S.D. Myers & C. W. Anderson (Eds.), *Dimensions in mentoring: A continuum of practice from beginning teachers to teacher leaders*. Sense Publishers.

Refereed Conference or Symposium Proceedings

Li, Q., **Zhu, J.** (2020) Engineering Students' Epistemological Thinking in the Context of Senior Design Projects. *2020 Proceedings of the ASEE International Forum*.

Huang, Y., **Zhu, J.**, Chen, B., Zhang, Z. (2020) To Start or Not: Impact of Engaging in Technological Innovation and Entrepreneurship Competitive Activities on Engineering Students' Entrepreneurial Intention. *2020 Proceedings of the ASEE International Forum*.

Zhang, G., **Zhu, J.** Yang, D. (2019) Exploring the Educational Outcomes of International Engineering Graduates from Chinese Universities. *2019 Proceedings of the ASEE International Forum*.

Huang, Y., **Zhu, J.** (2019) The Impact of Participation in Multiple International Learning Experiences for Engineering Students. *2019 Proceedings of the ASEE International Forum*.

Liu R., **Zhu, J.** (2018) Personal Epistemology: The Impact of Project-based Learning. *2018 Proceedings of the ASEE International Forum*.

Chen J., **Zhu, J.**, Zheng, T. (2017) An Exploration of Female Engineering Students' Functional Roles in the Context of First-year Engineering Courses. *2017 Proceedings of the ASEE International Forum*.

Hu Y., **Zhu, J.** (2016). Engineering Leadership: An Explorative Qualitative Study Based on the Four Capabilities Model. *2016 Proceedings of the ASEE International Forum*.

Liu Q., **Zhu, J.** (2015). Impact of international collaborative engineering education upon the epistemological development of Chinese engineering students. *2015 Proceedings of the Annual American Society for Engineering Education*.

Liu Q., **Zhu, J.** (2015). Summer courses as a platform for international collaboration in Chinese higher education: An Exploration of Students' Learning Experiences. *2015 Proceedings of the ASEE International Forum*.

Zhu, J. Liu Q., Cox, M.F. (2014). Applying self-authorship theory among Chinese engineering doctoral students in U.S. institutions, *2014 Proceedings of the Annual American Society for Engineering Education*.

Zhu, J., Cox M. F., Branch S., Ahn, B. and London, J. (2013). Recommendations for Engineering Doctoral Education. *IEEE Frontiers in Education Conference*.

Zhu, J., Cox, M.F., & Lynch, C. (2012). Mentoring of Underrepresented Minority Scholars in the Reinvigorating Engineering and Changing History (REACH) Program and the AGE Program: Development of Interactive Learning Modules. *2012 Proceedings of the American Society for Engineering Education*.

Zhu, J., Lynch, C. & Cox, M.F. (2012). Facilitating Graduate Students' Professional Development: Implementation and Evaluation of Learning Activities. *2012 Proceedings of the American Society for Engineering Education.*

Lynch, C., **Zhu, J.,** & Cox, M. F. (2012). Exploring the Diversity in Faculty Careers: Formative and Summative Assessment in a Preparing Future Faculty Course. *2012 Proceedings of the American Society for Engineering Education.*

Zhu, J., & Cox, M.F. (2012). Epistemological Development of Chinese Engineering Doctoral Students in the U.S. Institutions: A Comparison of Multiple Measurement Methods. *2012 Proceedings of the American Society for Engineering Education.*

Cox, M.F., **Zhu, J.,** Ahn, B., Torres-Ayala, A., & Ramane, K. (2012). Recommendations for Promoting Desirable Characteristics in Engineering Ph.D.s: Perspectives from Industry and Academia. *2012 Proceedings of the American Society for Engineering Education.*

Cox, M.F., London, J.S., Ahn, B., **Zhu, J.,** Torres-Ayala, A.T., Frazier, S., & Cekic, O. (2011) Attributes of Success for Engineering Ph.D.s: Perspectives from Academia and Industry, *2011 Proceedings of the American Society for Engineering Education.*

Lynch, C., **Zhu, J.,** & Cox, M.F. (2011). Smoothing the Transition: Design, Implementation and Assessment of a "Preparing Future Professional" Course for Graduate Students, *2011 Proceedings of the American Society for Engineering Education.*

Zhu, J., Cox, M.F., Evangelou, D., Lynch, C., Fentiman, A.W., & Dunston, P. (2011). Experiences of Scholars in the Reinvigorating Engineering and Changing History Program: A Case Study of the First Graduate Student Cohort, *2011 Proceedings of the American Society for Engineering Education.*

Cox, M.F., **Zhu, J.,** Ahn, B., London, J.S., Frazier, S., Torres-Ayala, A.T., Chavela, Rocio. (2011). Choices for Ph.D.s in Engineering: Analyses of Career Paths in Academia and Industry. *2011 Proceedings of the American Society for Engineering Education.*

Zhu, J., Cox, M.F., Adams, SG, Alternative Models of Assessment for 21st Century Engineering Doctoral Students, *2011 Australasian Association for Engineering Education (AaEE) Annual Conference & Exposition in Fremantle, Western Australia.*

Cekic, O., Cox, M.F., & **Zhu, J.** (2010). Industry Participation in the Development of Engineers as Leaders in Work Environments, *2010 Proceedings of the American Society for Engineering Education.*

Selected Awards

Best Paper Award , Engineering Education Division Conference, China Association of Higher Education, Hang Zhou, China.	2017
Shanghai Pujiang Talents , Shanghai Science and Technology Committee, China	2014
Best Dissertation Award , School of Engineering Education, Purdue University, U.S.	2013
Outstanding Graduate Student Research Award , College of Engineering, Purdue University, IN, U.S.	2013
Bilsland Dissertation Fellowship Award , Purdue University, IN, U.S.	2012
Best Graduate Student Paper Award , Graduate Studies Division, American Society for Engineering Education Annual Conference, U.S.	2012
Bilsland Strategic Initiatives Fellowship Award , Purdue University, IN, U.S.	2012