

# Design ICT-enhanced scaffolding mechanisms focusing on self-regulation processes in problem-based learning environments

**Professor Xun Ge**

Jeannine Rainbolt College of Education  
The University of Oklahoma

November 29, 2017 (Wednesday)

18:00 – 19:30

Swire Lounge, Robert Black College, HKU  
(Chair: Dr Maggie Wang)



## Abstract:

In this seminar, a conceptual framework will be presented and discussed to examine closely the complex interrelationships between self-regulation processes and ill-structured problem solving processes during PBL based on the previous research (Ge, Law, & Huang, 2016). This framework illustrates the iterative processes among problem-solving stages (i.e., problem representation and solution generation) and self-regulation phases (i.e., planning, execution, and reflection). This seminar will help us to understand the role of self-regulation in ill-structured problem solving, design effective scaffolding strategies and develop valid assessment for self-regulated learning in PBL using ICT tools.

## Reference:

Ge, X., Law, V., & Huang, K. (2016). Detangling the Interrelationships Between Self-Regulation and Ill-Structured Problem Solving in Problem-Based Learning. *Interdisciplinary Journal of Problem-Based Learning*, 10(2). Available at: <http://dx.doi.org/10.7771/1541-5015.1622>

## About the speaker:



**Xun Ge** is Professor and Chair in the Department of Educational Psychology at the University of Oklahoma. She holds a PhD in Instructional Systems from the Pennsylvania State University.

Her primary research interest involves scaffolding students' complex and ill-structured problem solving and self-regulated learning through designing instructional scaffolds, cognitive tools, learning technologies, and open learning environments (e.g., virtual learning community, game-based learning, inquiry-based learning, and problem-based learning). Currently, she is working with her collaborators from OU and Norman Public Schools on a project investigating the impact of guided inquiry design for makerspace, funded by Institute of Museum and Library Services.

Professor Ge is a productive scholar, and her works have been published in 2 edited books, 17 book chapters, and about 50 journal articles, let alone over one hundred and conference presentations and proceedings. She is the recipient of three prestigious awards – 2012 Outstanding Journal Article, 2004 Outstanding Journal Article, and 2003 Young Scholar by American Educational Communications and Technology.



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