

# XINYUN PENG

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## EDUCATION

<b>Ph.D.</b> Learning Design and Technology, Pennsylvania State University (PSU) (GPA 4.0)	08/2016 - present
<b>M.Ed.</b> Instructional Design and Technology, University of Oklahoma (OU) (GPA 4.0)	01/2013 - 05/2015
<b>B.S.</b> Biotechnology, Sichuan Normal University (SICNU)	08/2006 - 07/2010

## DESIGN PROJECTS

<b>Spectrum</b> PSU Teaching and Learning with Technology - A web-based application for facilitating instructors' reflective teaching and students' reflective learning - Researching on the possible affordances of Spectrum for the student's use - Making mock-ups of new ideas using Adobe XD	10/2019-present
<b>Website Redesign</b> PSU The Leonhard Center - The center needed to renovate the outdated website - Made the flowchart according to person's needs - Designed the layout and developed the mock-ups	10/2019-present
<b>PinYing</b> - A new learning method and a software application for Chinese to learn English pronunciations - Based in OU - Worked as a UX researcher in a team of 15: including programmers, designers/researchers and a professor studying Chinese literature	07/2015-04/2016
<b>Course Design</b> Motivation for High Performance - A 2-day face-to-face course in the training series for Oklahoma State Government staff - Designed the instructional content and training activities - Wrote guidance documents for both facilitator and participants, and prepared the multimedia elements	11/2015
<b>Course Review and Revision</b> OU Economic Development Institute (EDI) courses - Online learning courses of economic development topics, carried out on Moodle - Revised the outdated courses by modifying contents, structures and layouts	08/2014-05/2015
<b>Learning Environment Design</b> OU Education-Architecture interdisciplinary Design Competition - Topic: The Classroom for the Future (in 2025) - Each team designed its own learning space based on the understanding of the topic - Designed educational pedagogy which determined the functions of the learning space - <b>Championship</b> team member	09/2014-10/2014

## RESEARCH PROJECTS

<b>Online Academic Integrity</b> - A project for the Penn State World Campus - Research on the online academic dishonesty issues - Conduct qualitative and quantitative data collection and analysis through interviewing faculty and students	10/2018-04/2019
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## STEM Pillars

07/2017-12/2017

- A IMLS (Institute of Museum and Library Services) funded research project
- Aims to increase interests of rural families with young children in STEM (science, technology, engineering, math) topics through informal learning
- 6-member project team
- Participated as a core member for data collection, data analysis, and revision of interventions

## Children's Garden

01/2017-present

- A design-based research project
- Based on a 3-day summer camp for young children focusing on geoscience learning
- Responsible for day 3 data analysis and revision of interventions for the next iteration

## Working Memory and Cognitive Load

08/2016-present

- A project for the Learning Design dept of Penn State World Campus
- Studies how working memory functions and how cognitive load impacts learning process and outcomes
- Work in a team of three, the director of Learning Design Research and the other graduate student

## WORK EXPERIENCES

### Research Assistant, Leonhard Center, College of Engineering, PSU

08/2019-present

- Conduct data collection and analysis for faculty's teaching-related projects
- Conduct interviews and focus groups with faculty and students

### Research Assistant, Penn State World Campus R&D Team

08/2016-05/2019

- Prepared materials and forms for IRB
- Conducted research project on the dynamic model of working memory and cognitive load with 2 other teammates
- Conducted research project on online academic integrity (with 1 other teammate)

### Social Media Intern, Innovate Learning Review

12/2017-05/2018

- Wrote weekly news articles about e-learning emerging researches

### Orientation Leader, International Students Orientation, PSU

08/2017

- Prepared and organized orientation activities
- Led new students for 2 days to know about the university and their future school life

### Course Designer, Economic Development Institute, OU

09/2014-04/2016

- Design and develop online courses on Moodle LMS
- Cooperate with instructors on the organization of contents
- Course topics include strategic planning, marketing, entrepreneurship, etc.

### Media Design Intern, The Nature Conservancy (TNC) Oklahoma Chapter

09/2014-03/2015

- Finalized the visual elements (photos, videos and links) for an online virtual tour project
- Designed brochures, booklets and time lapse
- Added educational components for TNC Oklahoma website
- Maintained TNC Oklahoma Facebook page

### Research Intern, Center for Teaching Excellence (CTE), OU

01/2014-05/2014

- Helped instructional designers with their daily routines
- Acquired familiarity of CTE's functionalities in faculty development and teaching
- Researched on online course design strategies and tools
- Analyzed MOOCs platforms (Janux, Coursera and edX)

## SKILLS | TOOLS

**Design:** Adobe Creative Suite (Dreamweaver, InDesign, XD, Photoshop, Lightroom, Premiere, Illustrator, Captivate)

**Data Analysis:** SPSS, R, NVivo, V-Note, GraphPad Prism

**Misc:** HTML5, CSS, Javascript, Git, iMovie, Audacity, Samplitude, GarageBand

## PUBLICATIONS

Shearer, R., Yu, J., **Peng, X.** (2019) Cognitive Load and Working Memory: A System View of Measurement

Accepted

Zimmerman, H. T., **Peng, X.**, Kim, S. H., Land, S. M. (2019) Learning through making to support environmental sciences understandings model building in a watershed summer program. *International Journal of Science and Mathematics Education*

Manuscript in review

Luo Z., **Peng X.**, Shi H., Gong C., Qian Z., Yang L (2011). Comparison of the protective effects of truncated bFGF and native bFGF against murine lung carcinoma. *Int J Mol Med*. 28(1):3-8. PMID: 21503566

**Peng X.**, Yang H., et al. (2009) Research Progress of DNA Repair Enzyme MGMT, *China Medical Engineering* 17 (2): 94-98

Gong C., Shi S., **Peng X.**, Kan B., Yang L., Huang M., Luo F., Zhao X., Wei Y., Qian Z(2009). Biodegradable thermosensitive injectable PEG-PCL-PEG hydrogel for bFGF antigen delivery to improve humoral immunity, *Growth Factors*, 27(6): 1-7. PMID: 19919526

Gou M., Zheng L., **Peng X.**, Men K., Zheng X., Zeng S., Guo G., Luo F., Zhao X., Chen L., Wei Y., Qian Z (2009). Poly(epsilon-caprolactone)-poly(ethylene glycol)-poly(epsilon-caprolactone) (PCL-PEG-PCL) nanoparticles for honokiol delivery in vitro. *Int J Pharm*. 375(1-2):170-6. PMID: 19427143

## PRESENTATIONS

**6<sup>th</sup> International Workshop on Advanced Learning Sciences (IWALS 2018)**

- **Poster** (Cognitive Load and Working Memory: A Theoretical Framework for Measurement)
- **Talk** (Informal Science Learning through Making to Support Model Building: A Collective Case Study of the Watershed Summer Program)

06/06/2018-  
06/08/2018