

## Curriculum Vita

### I-Chun Tsai

Ph.D.  
School of Information Science & Learning Technologies  
University of Missouri-Columbia

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Instructional Technology  
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## EDUCATION

- Aug. 2003 - May 2008      **School of Information Science and Learning Technologies**  
University of Missouri- Columbia, Missouri  
**Doctor of Philosophy (Ph.D.)**  
Major: Learning Technologies  
Supporting Field: Educational Psychology & Special Education  
Dissertation Topic: The Social Nature of Learning to Teach in an Online Community of Practice
- Sep. 1998 - Jan. 2000      **Department of Educational Technology**  
Tamkang University, Taipei, Taiwan  
**Master of Arts**  
Major: Educational Technology  
Thesis Title: The Application of Case Method in Secondary Teacher Preparation: The Development of Teaching Cases
- Feb. 2000 - Oct. 2000      **Extension Education**  
Public Service Center, Tamkang University, Taipei, Taiwan  
**Computer Extension Education**  
Major: 40 credits in computer skills and knowledge
- Sept. 1995 - June 1998      **Teacher Education Program**  
Center for Teacher Education, Tamkang University, Taipei, Taiwan  
**Teaching License for Secondary Education**  
Major: Secondary School Education
- Sept. 1994 - June 1998      **Department of Business Administration**  
Tamkang University, Taipei, Taiwan  
**Bachelor of Business Administration**  
Major: Business Administration

## TEACHING LICENSES

### Computer Teaching License

Teaching skills and knowledge of Computer and multimedia software (i.e. Dreamweaver, Flash, PhotoImpact, etc.) in Junior and Senior High School

### Data Process Program Teaching License

Teaching Data Process Program in Industrial Vocational Senior High School

### Business Teaching License

Teaching Business Program in Industrial Vocational Senior High School

## PROFESSIONAL PUBLICATIONS

### Refereed Journal Articles

- Tsai, I.-C., Tong, Y.-P., & Laffey, J. (accepted, 2012). Exploring how students' self-regulated learning influences the social nature of online learning. *International Journal of Learning Technology*.
- Galyen, K., Tsai, I.-C., & Laffey, J. (accepted, 2012). The relationship between learning satisfaction and social ability in completely online learning courses. *Open Education Research*. (CSSCI)
- Tsai, I.-C., Galyen, K., Xie, X., & Laffey, J. (2012). Using Activity Theory to Examine Social Interaction of Online Learning. *Open Education Research*, 18(5), 49-57. (CSSCI)
- Tsai, I.-C. (2012). Understanding the social nature of an online community of practice for learning to teach. *Journal of Educational Technology and Society*, 15(2), 271-285. (SSCI)
- Tsai, I.-C. (2011). Levels and patterns of participation and social interaction in an online learning community for learning to teach. *Journal of Interactive Learning Research*, 22(2), 191-239. Chesapeake, VA: AACE. Retrieved from <http://www.editlib.org/p/33056>. (SSCI)
- Laffey, J. & Tsai, I.-C. (2010). Design research for context awareness. *Open Education Research*, 16(6), 60-67. (CSSCI)
- Laffey, J., Tsai, I.-C., Amelung, C., Hong, R.-Y., Galyen, K. & Goggins, S. (2010). The Role of Social Information for Social Ability, Sense of Community and Satisfaction in Online Learning. *Open Education Research*, 16(3), 136-143. (CSSCI)
- Tsai, I.-C., Laffey, J., & Hanuscin, D. (2010). Effectiveness of an online community of practice for learning to teach elementary science. *Journal of Educational Computing Research*. 43(2), 225-258. (SSCI)
- Tsai, I.-C., Kim, B., Liu, P. J., Kumalasari, C., Goggins, S. P., & Laffey, J. M. (2008). Building a model explaining the social nature of online learning. *Journal of Educational Technology and Society*, 11(3), 198-215. (SSCI)
- Yang, C.-C., Tsai, I.-C., M.-H., Kim, B., & Laffey, J., D. (2006). Exploring the relationships between students' academic motivation and social ability in online learning environments. *The Internet and Higher Education*, 9, 277-286.

### Refereed Conference Proceedings

- Tsai, I.-C., Galyen, K., Xie, X., & Laffey, J. (2010). Using Activity Theory to Examine Social Interaction of Online Learning. Proceedings of AACE World Conference on Education Multimedia and Hypermedia. Toronto, Canada.
- Galyen, K., Tsai, I.-C., & Laffey, J. (2010). The relationship between learning satisfaction and social ability in completely online learning courses. Proceedings of AACE World Conference on Education Multimedia and Hypermedia. Toronto, Canada.
- Social Computing Research Group (SCRG). (2006). Social Nature of Online Learning in Sakai. Proceedings of AACE World Conference on Education Multimedia and Hypermedia. Orlando, FL.
- Tsai, I., Nuankhieo, P., Wu, C., & Chang, Y. (2005). Supports of group awareness for synchronous and asynchronous collaboration. Proceedings of AACE World Conference on E-Learning. Vancouver, C.A.
- Tsai, I.-C., & Wu, C.-H. (2005). Teachers' needs of an online learning community assisting professional development. Proceedings of AACE World Conference on E-Learning. Vancouver, C.A.
- Shen, D., Tsai, I.-C., & Wu, C.-H. (2005). Course management systems v.s. online instructors' needs. Proceedings of AACE World Conference on E-Learning. Vancouver, C.A.
- Social Computing Research Group (SCRG). (2005). Understanding computer mediated social experience:

implications for CSCL. Proceedings of the Annual Conference of Computer Supported Collaborative Learning. (pp. 550-551). Taipei, Taiwan. Lawrence Erlbaum Associates. Hillsdale NJ.

Kim, B., Yang, C., & Tsai, I. (2005). Review of computer-mediated collaborative concept mapping: Implication for future research. Proceedings of the Annual Conference of Computer Supported Collaborative Learning. Taipei, Taiwan.

Tsai, I.-C. , Wu, C.-H., & Kao, H.-F. (2004). Applying Case Study in Preparing to Teach Online Courses: the Development of Online Teaching Cases. Proceedings of AACE World Conference on E-Learning. Washington D.C.

### **Refereed Interactional Paper Presentations**

Tsai, I.-C., Laffey, J., & Hanuscin, D. (2009, April). Understanding the social nature of an online community of practice for learning to teach. Paper presented at the 2009 Annual Conference of American Educational Research Association, San Diego, California.

Tsai, I.-C., Laffey, J., & Hanuscin, D. (2009, April). Effectiveness of an online community of practice for learning to teach elementary science. Paper presented at the 2009 Annual Conference of American Educational Research Association, San Diego, California.

Laffey, J., Tsai, I.-C., Amelung, C., Young, R., Galyen, K., & Goggins, S. (2009, April). The role of social information for social ability, sense of community and satisfaction in online learning. Paper presented at the 2009 Annual Conference of American Educational Research Association, San Diego, California.

Hong, R., Galyen, K., Laffey, J., & Tsai, I.-C. (2009, April). Social comparison visualization for fostering participation in online learning. Paper presented at the 2009 Annual Conference of American Educational Research Association, San Diego, California.

Tsai, I.-C., Tong, Y.-P., & Laffey, J. (2008, April). Exploring how students' self-regulated learning influences the social nature of online learning. Paper presented at the 2008 Annual Conference of American Educational Research Association, New York, USA.

Tsai, I.-C., Yang, C.-C., & Laffey, J. (2008, April). Differences in student-instructor and Student-peers social interactions in explaining satisfaction in online learning. Paper presented at the 2008 Annual Conference of American Educational Research Association, New York, USA

Nuankhie, P., Tsai, I.-C., Goggins, S., & Laffey, J. (2007). Comparing the social interaction pattern of online one-on-one peer and small group collaboration activities. Paper presented at the IEEE International Symposium on Multimedia (ISM2007) Conference, Taichung, Taiwan, ROC.

Goggins, S., Laffey, J., & Tsai, I.-C. (2007). Cooperation and groupness: Community formation in small online collaborative groups. Paper presented at the GROUP'07 Conference of Association for Computing Machinery (ACM), Sanibel Island, Florida, USA.

Tsai, I.-C., & Hanuscin, D. (2007, April). Hammering a Nail with a Saw: The Constraints of "One-Size-Fits-All" Technology in Supporting Online Communities of Science Teachers. Paper presented at the Annual Conference of American Educational Research Association, Chicago, MI, USA.

Tsai, I.-C., Kim, B., Liu, P. J., Kumalasari, C., Goggins, S. P., Laffey, J. M., & Amelung, C. (2007, April). Building a Model Explaining the Social Nature of Online Learning. Paper presented at the Annual Conference of American Educational Research Association, Chicago, MI, USA.

Tsai, I.-C., Yang, C.-C., Cho, M.-H., Kim, B., Laffey, J., D. (2006, April). Exploring the relationships between students' academic motivation and social ability in online learning environments. Paper presented at the Annual Conference of American Educational Research Association, San Francisco, USA.

Lee, C. & Tsai, I.-C. (2004). No Kidding- Exploring the Effects of Stories through the Window of Schema

Theory. AECT, Chicago, Illinois.

Tsai, I.-C. (2000). The Application of Case Method in Secondary Teacher Preparation: The Development of Teaching Cases. (unpublished master thesis ) Tamkang University.

Kao, H.-F. & Tsai, I.-C. (2000). The Application of Case Method in Teacher Education: The Development of Teaching Cases. Annual Conference for Teacher Colleges, National Shin-Chu Teacher College.

Tsai, I.-C. & Kao, H.-F. (1999). The Application of Case Methods in Teacher Education. Conference of the revolution and invention in the teaching of Elementary and Junior High School, National Kaohsiung Normal University.

## RESEARCH EXPERIENCE

Jan. 2011 – Present	<b>Online Learning Community for Learning to Teach: eTRAIN (electronic Teacher Resource And Information Network, <a href="http://www.uakron.edu/etrain">http://www.uakron.edu/etrain</a> )</b> Title: <b>Primary Investigator</b>
Dec. 2006 – June 2010	<b>Context-aware Activity Notification System (CANS) Prototype Design Project (FIPSE, <a href="http://fipse.missouri.edu/">http://fipse.missouri.edu/</a>)</b> Title: <b>Research Assistant</b>
Aug. 2005 – Aug. 2008	<b>Nurturing Elementary Teachers' Work (NETwork) Project - Online Learning Community for K-8 Teachers</b> Title: <b>Primary Investigator</b>
Aug. 2005 – Aug. 2008	<b>Sakai Social Awareness Research Project (Social Computing Research Group, SCRG)</b> Title: <b>Student Investigator</b>
Jan. 2005 - July 2006	<b>Online Learning Experience Research Project (SCRG)</b> Title: <b>Student Investigator</b>
Aug. 2004 - Jan. 2005	<b>Social Computing Research Project (SCRG)</b> Title: <b>Student Investigator</b>
Aug. 2004 - Jan. 2005	<b>Social Awareness Research Project (Peer Collaboration)</b> Title: <b>Primary Investigator</b>
Aug. 2004 - Jan. 2005	<b>Course Management System Research Project (Peer Collaboration)</b> Title: <b>Primary Investigator</b>
Aug. 2004 - Jan. 2005	<b>Concept Mapping Research Project (Peer Collaboration)</b> Title: <b>Primary Investigator</b>
Aug. 2005 - Dec. 2005	<b>SISLT Webcast Project</b> Title: <b>Staff</b> in the Reflector
Sept. 2003 - Jan. 2004	<b>Technologies of Special Education - Case studies Research Project for Applying Technologies in Special Education</b> Title: <b>Research Assistant</b>
Aug. 2003 - Jan. 2004	<b>ShowMe the World - Global Education Research Project</b> Title: <b>Research Assistant</b>
July 1998 - June 2000	<b>National Science Council Project: A Study of Development, Application and Evaluation of Case Methods in Enhancing Professional Competencies of Pre-service Teachers (I &amp; II)</b> Project Administrator: Dr. Kao, Hsun-Fung, Dean of College of Education, Tamkang University, Taipei, Taiwan Title: <b>Research Assistant</b>

Jan. 1998 - Feb. 1999      **Ministry of Education Project: An investigation research in the teaching materials of Junior High School Social Studies Curriculum**  
 Project Administrator: Dr. Chang, F.C.I., President , Tamkang University, Taipei, Taiwan  
 Title: **Research Assistant**

## TEACHING EXPERIENCE

Aug. 2008 – present      **Assistant Professor for Master Program of Instructional Technology**  
 5150:610 Introduction to Instructional Technology  
 5150:632 Web-based Learning System  
 5150:633 Multimedia and Hypermedia  
 5150:635 Emerging Technologies for Instruction  
 5150:639 Strategies for Online Learning/Teaching

Jan. 2008 – May 2008      **Co-instructor** (with Dr. James Laffey)  
 ISLTQ9469: Designing Performance Support System (DPSS)  
 Target Audience: Graduate Students

Jan. 2006 – Dec. 2007      **Lead Instructor**  
 ISLT4660/7360: Introduction to Web Development  
 Target Audience: Undergraduate & Graduate Students

Aug. 2005 – Jan. 2008      **Mentor**  
 Digital Media Zone  
 Target Audience: Undergraduate & Graduate Students

June 2005 - Dec. 2005      **Assistant Instructor**  
 ISLT4631/7631: Introduction to Digital Media  
 Target Audience: Undergraduate & Graduate Students

Aug. 2005 - Dec. 2005      **Assistant Instructor**  
 ISLT4364/7364: Digital Media Authoring Systems (Flash)  
 Target Audience: Undergraduate & Graduate Students

Jan. 2005 - May. 2005      **Teaching Assistant**  
 ISLT9440: Learning with the Internet  
 Target Audience: Graduate Students

June 2004 - Aug. 2004      **Teaching Assistant**  
 ISLT7368: Technology Across the Curriculum  
 Target Audience: Graduate Students (In-service Teachers)

July 2007, Jan. 2007, & Oct. 2006      **Trainer**  
 iMovie Training

April 2005      **Trainer**  
 PowerPoint, iMovie, Nvu, & FolioTek Training  
 Target Audience: Students in ISLT9440 course

Oct. 2004      **Trainer**  
 PowerPoint & SmartBoard Training  
 Target Audience: Graduate students in College of Education

## WORK EXPERIENCE

Aug. 2010 - Present      **Master Program of Instructional Technology, Dept. of Educational Foundations and Leaderships, University of Akron (Ohio) (<http://www.uakron.edu/>)**  
 Title: **Assistant Professor**

- Aug. 2008 - Aug. 2010
- Duty: Teach courses in the master program of Instructional Technology.  
Advise students enrolled in the master program of Instructional Technology  
Conduct research in the field of Instructional Technology
- Master Program of Instructional Technology,  
Dept. of Educational Foundations and Leaderships, University of Akron  
(Ohio) (<http://www.uakron.edu/>)**  
Title: **Visiting Assistant Professor**
- Dec. 2006 - present
- Duty: Teach courses in the master program of Instructional Technology.  
Advise students enrolled in the master program of Instructional Technology  
Conduct research in the field of Instructional Technology
- Context-aware Activity Notification System (CANS) Prototype Design  
Project (FIPSE, <http://fipse.missouri.edu/>)**  
School of Information Science and Learning Technologies,  
University of Missouri- Columbia, Missouri  
Title: **Research Assistant**
- Duty: Take the lead in the research work including design, implementation,  
data collection, data analysis, and the writing of research reports to  
assist the design process.  
Work on prototypes of social awareness notification tools
- Aug. 2005 - Jan. 2008
- Digital Media Zone (<http://zone.missouri.edu/>)**  
School of Information Science and Learning Technologies,  
University of Missouri- Columbia, Missouri  
Title: **Mentor, Assistant or Lead Instructor**
- Duty: Teach and assist teaching some multimedia courses, including Intro to  
Web Development, Flash, and Intro to Digital Media.  
Prepare and design course instruction and materials.  
Facilitate students' online learning activities, discussion, and completing  
assignments in the online learning environments (i.e. Blackboard,  
WebCT, and Sakai)  
During the face to face working hours, I assisted students from all the  
Zone courses to solve their problems or questions.
- Jan. 2004 - July 2005
- Technology Center -Reflector of the College of Education**  
University of Missouri- Columbia, Missouri  
Title: **Staff**
- Duty: Assisted students using technologies, such as software, projectors,  
movie editors, web development software, and designed training  
instructions.  
Served as a trainer in the software & hardware trainings, including  
PowerPoint, SmartBoard, iMovie, and Nvu trainings, provided by the  
Reflector.  
Participated in SISLT Webcast Project: developing the instructions of  
setting radio shows and assist setting up the radio shows
- March 2002 - May 2003
- National Science Council Project: Mathematics Education Discipline  
Planning**  
Project Administrator: Dr. Horng, Wann-Sheng, Professor of Dept. of  
Mathematics of National Taiwan Normal University, Taipei, Taiwan  
Title: **Research Assistant (Full-time)**
- Duty: Set up the Mathematics Education Discipline Web-site  
Data analysis & Information seeking  
Organized conferences about Mathematics education
- July 2001 - Feb. 2002
- Chong-Yi Senior High School**  
Taipei, Taiwan

	<p>Title: <b>Teacher &amp; Chief of Instruction</b>  Duty: Taught computer for 7-9th grades and business and database process for 10-12th grades  Planned and designed courses schedules for school courses; plan and implement Administrative work of the Teaching Organization</p>
Feb. 2001 - June 2001	<p><b>Tian-Sheng Elementary School</b>  Taipei County, Taiwan  Title: <b>Classroom Teacher (3rd Grade)</b></p>
Jan. 2001 - April 2002	<p><b>InterServ International Inc.</b>  Taipei County, Taiwan  Title: <b>Scriptwriter</b>  Duty: Instructional design for an e-learning course- Telephone Communication for Business</p>
July 2000 - Feb. 2001	<p><b>InterServ International Inc.</b>  Taipei, Taiwan  Title: <b>Learning Consultant for Elementary School Students</b>  Duty: Assisted elementary school students' after-school learning via phone</p>
Sept. 1998 - June 2001	<p><b>National Tamshui Commercial Industrial Vocational Senior High School</b>  Taipei, Taiwan  Title: <b>Night School Teacher for Business</b>  Duty: Taught Economics, Business, and Computer software courses</p>

## SERVICE

### Professional Service

- Dec 2012- MWERA Peer Review for 1 manuscript
- Oct 2012- QM (Quality Matter) Online Course Peer Review for 1 Higher Ed online course
- July 2012- JETS (Journal of Educational Technology & Society) Peer Review for 1 manuscript
- July 2012- QM Online Course Peer Review for 1 online course from Publisher
- June 2012- JETS Peer Review for 1 manuscript
- May 2012- JETS Peer Review for 1 manuscript
- April 2012- Hosted/Presented in Martha Holden Jennings Foundations Grant Evaluation Meeting (Co-PI for the grant)
- March 2012- QM Online Course Peer Review for 1 online course
- March 2012- JETS Peer Review for 1 manuscript
- Feb 2012- JETS Peer Review for 1 manuscript
- Jan 2012- Presented eTRAIN community in Mentor Teacher Orientation for Spring 2012 group
- Jan 2012- Presented eTRAIN community in Student Teacher Orientation for Spring 2012 group
- Aug 2011- Presented eTRAIN community in Mentor Teacher Orientation for Fall 2011 group
- Aug 2011- Presented eTRAIN community in Student Teacher Orientation for Fall 2011 group
- July 2011- JETS Peer Review for 1 manuscript
- May 2011- May 2012: Serve as the second advisor for student organization: Pi Lambda Theta, Beta Lambda Honor Student Organization
- May 2011- Presented at Teaching and Research Colloquium, EFL: Online Teaching Experience



- May 2011- JETS Peer Review for 1 manuscript
- April 2011- Approved Quality Matters G6-12 peer reviewer
- March 2011- JETS Peer Review for 1 manuscript
- Jan 2011- MWERA Peer Review for 1 manuscript
- Jan 2011- Appointed Executive Peer-Reviewers of the JETS
- Aug 2010- Participated in the Cohort Orientation at Quaker Station

### **Committees**

- Aug 2012- Present: Distance Learning Committee (University level)
- Aug 2012- Present: College Level: Executive Committee
- Aug 2012- Present: College Level: Technology Committee (Co-Chair)
- Aug 2012- Present: College Level: Personnel Committee (Co-Chair)
- Aug 2012- Present: Department Level: Personnel Committee
- Jan 2011- Present: Ad hoc/Special Committees Merit Review Committee
- Aug 2011- May 2012: Post secondary Tech Ed Search Committee Member: Assistant Professor Position
- Aug 2011- May 2012: Undergraduate Committee
- Aug 2011- May 2012: College Level: Personnel Committee
- Aug 2011- May 2012: Department Level: Personnel Committee
- Aug 2010- May 2011: Search Committee Member-Visiting Post Secondary 2010
- Aug 2010- May 2011: College Level: Personnel Committee
- Aug 2010- May 2011: Department Level: Personnel Committee (Co-Chair)

### **Professional Affiliations**

- Association for Advancement of Computing in Education (AACE)
- International Society for Technology in Education (ISTE)

## **GRANTS**

### **Internal Grants**

April 2012 Received	\$1,850, Fall 2012-Spring 2013: COE Faculty Research Grant, COE, University of Akron
April 2011 Received	\$2,000, Fall 2011-Spring 2012: COE Faculty Research Grant, COE, University of Akron

### **External Grants**

Nov 2012 Received	\$16,000 Martha Holden Jennings Foundation Grant
May 2011 Received	\$14,145 Martha Holden Jennings Foundation Grant

## **HONORS**

Oct. 2008	<b>John D. Bies International Travel Scholarship</b> College of Education, University of Missouri- Columbia, Missouri
Jan. 2008	<b>Graduate Professional Council Travel Scholarship (2007-2008)</b> College of Education, University of Missouri- Columbia, Missouri



Aug. 2007	<b>Professional Development Funds</b> School of Information Science and Learning Technologies, College of Education, University of Missouri- Columbia, Missouri
Aug. 2007	<b>Student Travel funds</b> School of Information Science and Learning Technologies, College of Education, University of Missouri- Columbia, Missouri
Jan. 2007	<b>Graduate Professional Council Travel Scholarship (2006-2007)</b> College of Education, University of Missouri- Columbia, Missouri
Sept. 2006	<b>Student Travel funds</b> School of Information Science and Learning Technologies, College of Education, University of Missouri- Columbia, Missouri
Oct. 2006	<b>Technology &amp; Industry Education Scholarship (Fall 2006 - Winter 2007)</b> College of Education, University of Missouri- Columbia, Missouri
Jan. 2006	<b>Graduate Professional Council Travel Scholarship (2005-2006)</b> College of Education, University of Missouri- Columbia, Missouri
Oct. 2005	<b>Student Travel funds</b> School of Information Science and Learning Technologies, College of Education, University of Missouri- Columbia, Missouri
Jan. 2005	<b>Graduate Professional Council Travel Scholarship (2004-2005)</b> College of Education, University of Missouri- Columbia, Missouri
Oct. 2004	<b>Technology &amp; Industry Education Scholarship (Fall 2004 - Winter 2005)</b> College of Education, University of Missouri- Columbia, Missouri
Aug. 2004	<b>Student Travel funds</b> School of Information Science and Learning Technologies, College of Education, University of Missouri- Columbia, Missouri
Dec. 2002	<b>Praise of Excellent Teaching Performance (Fall 2002)</b> Chong-Yi Senior High School, Taipei, Taiwan