

*Jaehwan Byun*

## DOCTORAL CANDIDATE

Curriculum & Instruction (Instructional Technology)  
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## EDUCATION

- |   |                            |
|---|----------------------------|
| <b>Doctoral Candidate</b><br>Department of Curriculum & Instruction<br>(Specialty area: Instructional Technology)<br>Graduate School, Southern Illinois University, Carbondale, Illinois, USA | Approved<br>December, 2008 |
| <b>M.A. in Educational Technology</b><br>Graduate School,<br>Hanyang University, Seoul, Korea   | February, 2004             |
| <b>Master Teacher</b><br>Intel® Teach to the Future Program,<br>KERIS (Korea Education and Research Information Service), Seoul, Korea  | May, 2003                  |
| <b>B.A. in Educational Technology</b><br>College of Education, Hanyang University, Seoul, Korea   | February, 2001             |

## PUBLICATIONS

- Loh, C. S., & Byun, J. H. (2008). Modding Neverwinter Nights Into Serious Games. In D. Gibson & Y. K. Baek (Eds.), *Digital Simulations for Improving Education: Learning Through Artificial Teaching Environments* (pp. 408-426). Hershey, PA: Information Science Reference
- Loh, C. S., Anantachai, A., Byun, J., & Lenox, J. (2007). Assessing what players learned in serious games: *in situ* data collection, information trails, and quantitative analysis. In Q. Mehdi (Ed.), *Computer Games: AI, Animation, Mobile, Educational & Serious Games (CGAMES 2007)*. Wolverhampton, UK: University of Wolverhampton.
- Byun, J. (2004). The Study of the Development of an Alternative Instructional Systems Design (ISD) Model as a Process of Creating Art. *Unpublished M.A Thesis*: Hanyang University, Seoul, Korea.

## PRESENTATION

- Byun, J. & Loh, C. S. (2009) *Learning Science Through Digital Games*. Paper presented at the Illinois Science Teacher Association (ISTA) 2009 Annual Conference (Science in the South 2009), Carbondale, IL.
- Byun, J. & Hechenberger, D. (2008, February) *Identifying Practical Approaches for Utilizing Arts Based Teaching Methods with Preservice Teachers*. Paper presented at the Association of Teacher Educators (ATE) 2008 Spring Conference, New Orleans, LA.
- Byun, J. & Loh, C. S. (2007, October) *Modding Videogames for Use in the Classroom*. Paper presented at the Annual Conference of the Association for Educational Communications and Technology (AECT 2007), Anaheim, CA.
- Byun, J. & Hechenberger, D. (2007, July) *Arts Based Teaching Methods: Tools for Pre-service Teachers to Engage Diverse Learners*. Paper presented at the Association of Teacher Educators (ATE) 2007 Summer Conference, Milwaukee, WI.
- Loh, C. S., Anantachai, A., Byun, J., & Lenox, J (2007, July) *Assessing What Players Learned in Serious Games: in Situ Data Collection, Information Trails, and Quantitative Analysis*. Paper Presented at the 10<sup>th</sup> International Conference on Computer Games: AI, Animation, Mobile, Educational and Serious Games (CGAMES 2007), Louisville, KY.
- Byun, J., Jones, D. & Loh, C. S. (2007, March) *Modding "Neverwinter Nights" for Video Game-Based Learning in the Classroom*, Paper presented at the Southern Illinois Education Alliance 2007 Conference, 'Closing the Gap – Practical Strategies for All Educators,' Carterville, IL.

## PRODUCTIONS

- |  |                 |
|--|-----------------|
| <b>Saving Adryanee (Serious Game)</b>  | September, 2007 |
| Project No. CILR 7021 of Collaboratory for Interactive Learning Research (CILR), Southern Illinois University Carbondale |                 |
| <b>Arecibo Valley (Serious Games Development Using Neverwinter Nights)</b>   | August, 2006    |
| Project No. CILR 6022 of Collaboratory for Interactive Learning Research (CILR), Southern Illinois University Carbondale |                 |
| <b>Korean Students Association in SIUC Official Websites</b>   | August, 2006    |
| Korean Students Association in Southern Illinois University Carbondale   |                 |
| <b>Instructional Design &amp; Technology Resource Database</b>   | May, 2006       |
| Project No. CILR 6011 of Collaboratory for Interactive Learning Research (CILR), Southern Illinois University Carbondale |                 |

**Instructional Design & Technology Resource Websites** Dec, 2005

Collaboratory for Interactive Learning Research (CILR), Southern Illinois University Carbondale

**Art History education program using PBL (Project Based Learning) method for 4-6 grade students** April, 2003

Institute of Educational Technology (IET), Hanyang University, Seoul, Korea

**AWARDS AND HONORS**

**Finalist for the 2<sup>nd</sup> Serious Game Showcase and Challenge**, with the 'Saving Adryanee' November, 2007

Interservice/Industry Training Simulation and Education Conference 2007 (I/ITSEC), Orlando, Florida

**Cummings Scholarship** April, 2007

College of Education and Human Services, Southern Illinois University Carbondale, Illinois

**Encouragement Prize for the Educational Media Contest for Graduate Students**, with the 'Art History education program using PBL (Project Based Learning) method for 4-6 grade students' April, 2003

'*The 1<sup>st</sup> Media Festival*' hosted by the Korea Association of Educational Information and Broadcasting (KAEIB), Seoul, Korea

**Brain Korea 21 Research Scholarship** March, 2002

Ministry of Education in Korea

**Scholarship** September, 2000

Hanyang University, Seoul, Korea

**Honor scholarship** September, 1994

Hanyang University, Seoul, Korea

**CERTIFICATES**

**Master Teacher's certificate** July, 2002

Intel® Teach to the Future course at Intel co. & Korea Education & Research Information Service (KERIS). Seoul, Korea

**Teacher's certificate**

February, 2001

Secondary School Teacher (Grade II) of Education, Ministry of Education & Human Resources Development, Korea

**PROFESSIONAL EXPERIENCES**

**Research Assistant**

September, 2006  
~ December, 2008

Collaboratory for Interactive Learning Research (CILR), Department of Curriculum and Instruction, Southern Illinois University Carbondale, Illinois

- On-going Project;
  - CILR 603s: Information Trail as Game Assessment
- Completed Project:
  - CILR 7021: Saving Adryanee (Serious Game)
  - CILR 6022: Serious Games Development using Neverwinter Nights
  - CILR 6011: Instructional Design & Technology Resource Database

**Graduate Assistant**

February, 2006  
~ Present

Teacher Quality Enhancement (TQE) Team, Department of Curriculum and Instruction, Southern Illinois University Carbondale, Illinois

- Maintaining websites of Department of Curriculum and Instruction (<http://ci.siu.edu>)
- Administrating on-line class forums
- Technical supports for classes or professors

**Graduate Assistant**

September, 2005  
~ December, 2005

College of Applied Sciences and Arts, Southern Illinois University Carbondale, Illinois

- Developing dental hygiene program websites (<http://www.siu.edu/~sah/tobacco/>)

**Researcher**

March, 2002  
~ July, 2005

Institute of Educational Technology, Hanyang University, Seoul, Korea

- Developing on-line or off-line courses
- Investigating trends of cyber education

**Teaching Assistant**

March, 2003  
~ June, 2003

Department of Educational Technology, Hanyang University, Seoul, Korea

- Course Title: The Next Generation of Instructional Systems Design

**Research assistant**

October, 2002

Institute of Korea Education & Research Information Service (KERIS), Seoul, Korea

- Evaluating e-learning courses of cyber universities

**Researcher**

June, 2001  
~ January, 2002

- Cy-learn team, Hyundai Research Institute, Seoul, Korea
- Blended learning curriculum design and development
    - *'Medical Representative Academy'* for the Korean Pharmaceutical Manufacturers Association (KPMA)
    - *'Leadership Academy'*
  - Operating e-learning courses of the Hyundai Cyber Learning Center (<http://www.cy-learn.co.kr>)
  - Web-sites design (<http://www.cy-learn.co.kr>)

**Assistant Researcher**

August, 2000  
~ May, 2001

- R&D Center, Semsol Information Technology Co, Ltd., Seoul, Korea
- e-Learning courses design
    - *The Learning Strategies for a company member in the Digital Ages*
    - *The Ethical Principle for personnel of 'Lotte Group'*
  - Commitment as a committee member for earning the Certification of *International Standard Organization (ISO) 9001:1994*

**Student Apprentice**

August, 2000

- Cy-Learn Team Hyundai Research Institute, Seoul, Korea
- e-Learning course design
    - *Etiquette in the work place*
    - *The Precautionary Measures for sexual harassment in the work place*

**Research Assistant (Part Timer)**

October, 1999  
~ December, 1999

- KONES Co, Ltd., Seoul, Korea
- Evaluation tool development for elementary school students on-line courses

**Drill Assistant Instructor.**

July, 1997  
~ March, 1999

Army Training Camp for Recruits of Republic of Korean Army, Hong-Chun, Korea

**PROFESSIONAL AFFILIATION**

Association for Educational Communications and Technology (AECT) (2007 ~ current)

Association of Teacher Educators (ATE) (2007 ~ current)

Korean Association for Educational Information and Media (KAEIM) (2002~2007)

**SERVICES**

**Technical Support Team Volunteer** of Association for Educational Communications and Technology (AECT), Orlando, FL.

November, 2008

**Vice President and Web Master** of Korean Student Association in Southern Illinois University Carbondale (KSA in SIUC), Carbondale, Illinois      September, 2007  
~ December, 2008

**Secretary** of the Korean Association for Educational Information and Broadcasting (KAEIB); as of now, Korean Association for Educational Information and Media (KAEIM), Seoul, Korea      March, 2002  
~ December, 2003

## TECHNICAL SKILLS

- Office applications (MS-Word, Excel, Powerpoint, Adobe Acrobat Professional)
- Website development (Dreamweaver, CSS)
- Online database development (e.g. Apache/PHP/mySQL)
- Content Management System (Drupal, WordPress)
- Graphics applications (Fireworks)
- 3D video game authoring toolkit (Neverwinter Nights version 1 & 2)

## REFERENCES

**Christian S. Loh** Professor, Curriculum & Instruction Southern Illinois University Carbondale,  
Carbondale, IL 618.453.4206 [csloh@siu.edu](mailto:csloh@siu.edu)