

CURRICULUM VITAE

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Ph.D. in Educational Psychology with Emphasis on cognition and technology,
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Current Projects

Medical Simulation Grant

I am working with nursing professors at UMKC College of Nursing to develop an NIH grant that will develop a 3D virtual simulation for training nursing students.

Virtual training for Preservice Teachers Grant

I submitted a New Media and Learning grant that would develop a virtual training program for the preservice teachers in the Institute for Urban Education.

Book Chapter

I am a co-author with Diane Hui of a chapter in the book, Information Communication Technologies for Enhanced Education and Learning: Advanced Applications and Developments. Our chapter is titled, Understanding the Effectiveness of Collaborative Activity in Online Professional Development with Innovative Educators through Intersubjectivity.

Geoworld's Grant

I am Co-PI on a Kaufman Foundation grant that creates a high school geoscience program in Second Life. My focus is on problem-based learning and assessment of learning. This program is designed to teach urban students advanced geosciences concepts using a series of virtual worlds that allow them to engage in collaborative activities and respond to simulations based on four geosciences worlds. I will also implement a research study using cultural historical activity theory.

Presentation at E-Learn Conference in Canada, October 1007.

I presented on the Geoworlds project and the potential to use AI bots in Second Life environments designed to simulate problem-solving scenarios.

Studies of MMPOGs

I am working with professors in three other universities to design a study of their collaborative course taught in Second Life, a Massive MultiPlayer Online Game. This 3-D collaborative virtual learning environment will be the location of a virtual campus that will use the multiple learning objects and collaborative online forums to aid in developing advanced student learning processes. Our studies will focus on the use of Artificial Intelligent Agents in the development of problem-based learning environments.

Problem-Based Learning and Creativity book chapter

I wrote a chapter in the upcoming book, Problem-Based Learning and Creativity. My chapter is titled, Using Cultural Historical Activity Theory to Understand how Group Collaboration Impacts an Online Problem-Based University Course.

Virtual Instructors Pilot Research Group

I am a researcher in the Virtual Instructors Pilot Research Group (VIPRG) which is part of the IEEE Computer Society Technical Committee on Learning Technology. I am a member of the research team on the VIPRG Human Behavior, Instruction, and learning Committees and the Learning Technology Sub-Committee. We are developing modular learning environments based on research in multiple fields of expertise.

New training program for the Nelson-Atkins Art Gallery

I designed a new training program for the Nelson to aid in the preparation of their staff and volunteers for the opening of their new building.

I am co-PI on a NSF grant titled ARROWS: Achieving Recruitment, Retention & Outreach With STEP

Written in conjunction with Dr. Odom of School of Education and the School of Computing and Engineering (SCE) dean, I am in charge of the research and professional development for the high school teachers including the design of problem-based learning modules.

Study of Online Group Problem-Solving

I am currently engaged in data structuring for a study of an online problem-based course I designed and implemented winter 2006 semester. The course, **The Development of a Technology- Based Program in Education (EDCI 573)** has students working in online groups to design and implement a plan of action to address problems in a technology-based educational program. I used cultural-historical activity theory as my methodology to design the study and social language theory to analyze the text data to understand the level of interactions in the groups.

AERA 2006 (American Educational Researchers Assoc.)

Two of my students (one doctoral and one masters level) and me presented at AERA in the Post-Secondary division. I presented on the problem-based learning unit during which the students designed their presentation on their dialogic analysis of a university course taught online collaboratively with a university in the US and a university in Sweden

NECC 2006 (National Educational Computing Conference)

Two of my students and myself presented a presentation on a problem-based learning course that resulted in their presentation of designing curriculum and professional development for educators implementing handhelds in the classroom.

Book Chapter

I have written a chapter for the book *Cases on Global e-Learning Practices: Successes and Pitfalls*. My chapter will be the case study of an educational setting and is titled Online Professional Development for Educators: A Case Study Analysis using Cultural Historical Activity Theory. The book will be published by IDEA Group, USA and be available in October 2006.

Publications

- Russell, D. (2007). Online Professional Development for Educators: A Case Study Analysis using Cultural Historical Activity Theory. *Cases on Global e-Learning Practices: Successes and Pitfalls*. IDEA Group, USA
- Russell, D. (2005). Implementing Online Collaborative Professional Development for Innovative Educators. *Computer Supported Collaborative Learning 2005: The Next 10 Years!* Erlbaum Associates. Waheh, New Jersey.
- Russell, D. (2005). Implementing an Innovation cluster in educational settings in order develop constructivist-based learning environments. *Educational Technology and Society*. Vol. 8, Issue 2.
- Russell, D. (2005). Transformation in an Urban School: Using Systemic Analysis to Understand an Innovative Urban Teacher's Implementation of an Online Problem-Based Unit. *International Journal of Instructional Technology & Distance Learning*. February 2005. Volume 2 Number 2
- Russell, D. & A. Schneiderheinze (2005). Understanding Innovation in Education using Activity Theory. *Educational Technology in Society*: Volume 8, Issue 1, 2005. ISSN: 14364522 (online) and 1176-3647 (print)
- Russell, D & A. Schneiderheinze (2005). Implementing an Innovation Cluster in Educational Settings In Order to Develop Constructivist-Based Learning Environments. *Educational Technology in Society*. Vol.8, Issue 2.
- Russell, Donna. (2004). Paradigm Shift: A Case Study of Innovation in an Educational Setting. *International Journal of Instructional Technology & Distance Learning*. December 2004. Volume 1 Number 12. ISSN 1550-690
- Hui, D., & Russell, D. (2005). Understanding online professional development for educators through the analysis of intersubjectivity in computer-mediated communication. Manuscript submitted for publication to the *Journal of Technology and Teacher Education*
- Russell, D. (2005). Implementing a Collaborative Online Problem-Based Unit in K-12 Educational Settings using a Design Template for Problem-Based Learning. Submitted to the *Interdisciplinary Journal of Problem-Based Learning*.

Journal Reviewer

I am a reviewer for the journal Educational Technology and Society, the Interdisciplinary Journal of Problem-Based Learning, the British Journal of Educational Technology and the journal of Computers and Human Behavior.

Online Dialogic Forum

I moderated an online dialog for February 2005 on Constructivist-Based Reform efforts to the International Forum of Educational Technology & Society (IFETS). I moderated and summarized the 12 day online dialog. I wrote a paper summarizing the forum published in the International Journal for Educational Technology and Society journal

Presentations

International Society for the Learning Sciences, 2006 Conference.

I presented a research paper on the design of online problem-based learning environments in higher education at this conference.

National Educational Computing Conference, July 2006, San Diego.

Two of my students and myself presented a poster session on an online course in my graduate degree program, a degree in Curriculum and Instruction with an emphasis on Learning Technologies. My students created a professional development program and a curriculum for handhelds in a local district. I will discuss my course, 573 Development of a Technology-Based Program in Education, during which they created their professional development program. I also presented a paper on Online Professional Development for Educators at the conference.

American Educational Researchers Association, April 2006. San Francisco. Chairing a panel symposium

I chaired a panel symposium which I wrote on The Design and Implementation of an Online Problem-Based Course. Two of my students who took the course will present their research on an online course implemented collaboratively between a professor in Sweden and a professor in the U.S. This is a panel for the post-secondary division. I am the discussant for a seminar for the Problem-Based Learning SIG.

International Society for Cultural and Activity Research (ISCAR) Seville, Spain. September 24-30 , 2005. Presented a research paper

Title: How Educators Acquire Innovations: Using Activity Theory to Understand Efforts to Implement Innovative Educational Environments.
Chairing a paper session at the conference

Computer Supported Collaborative Learning Conference (June 4-6, 2005) in Taipei, Taiwan (CSCL)

Presented a research paper: Title: *Implementing Online Collaborative Professional Development for Innovative Educators*. Sponsored by International Society of the Learning Sciences. The paper were published in a book titled: *Computer Supported Collaborative Learning 2006: Ten More Years*.

National Educational Computing Conference 2005, Philadelphia, Pennsylvania.
June 26,

International Society for Technology in Education (ISTE SIG)

I presented at a workshop on Online Professional Development for Educators. I was invited by David Moursand (one of the original founders of ISTE) to present at this workshop. The panelists will be asked to work collaboratively on a publication on the topic of technology in educational settings.

American Educational Research Association Conference 2005, Montreal, Canada

Research Division K: Symposium that I chair on the design of research based on **systems analysis and holistic response**. I was invited to send in a proposal.

Teacher Education Division: Presenting a paper on **online professional development** I reviewed proposals for this Division.

Technology, Activity, Cognition, Technology and Learning SIG: Presenting a paper on **Mediated Action in Learning**. I reviewed proposals for TACTL. I was invited to send a proposal.

Technology, Instruction Cognition and Learning SIG: Presenting a roundtable discussion on **Learning and Technology**

National Association of Multicultural Education Conference (NAME) 2004

Member of local planning committee for the NAME 2004 Conference held in Kansas City and hosted locally by the UMKC/SOE. I presented on my work in St. Louis Public with middle school students integrating advanced online work environments. Title: **Youth Leadership and Technology Project**.

International Conference on Education and Information Systems, Technologies and Applications (2004) (IEISTA)

I was accepted to present a full paper at the conference on Online Mediated Dialogs. I reviewed 9 proposals prior to the conference.

**Information Technology in Teacher Education Conference; July 2-6, 2004
(ITTE) Chester, UK.**

I was invited to present a paper and a symposium on systems-analysis of technology-based programs in education.

Children of the Young Years, April, 2005. TanTara, Missouri.

I presented on the use of educational technology in early childhood programs.

**Association of the Advancement of Computing in Education: Society for
Information Technology and Teacher Education: SITE 2003**

Presentation of a paper. Title: Inquiry into Mediated Action: The Implementation

Instructional Experience

Designed new Masters Degree

I designed a new Masters Degree in Curriculum and Instruction with an Emphasis on Learning Technology that is aligned with the NETS standards.

New courses designed and taught as part of the new degree include:

571 Cognition and Technology

572 Assessing the Role of Technology in Education

573 Development of Technology-Based Programs in Education

575 Curriculum Internship

Additional Courses taught at UMKC

EDCI 506 Integrated Curriculum Design

EDCI 595 Action Research

EDRP 502 Advanced Educational Psychology

TCHED 420 Adolescent Development

I taught several courses for the Kansas City Teaching Fellows program.

Webster University

I taught in the online MED program at Webster University. I taught Advanced Child Development.

UMSL

I taught the Psychology of Teaching and Learning in the preservice program at UMSL.

K-12 Instructional Experience

Vashon Compact St. Louis Public School District

I designed and implemented an after-school and summer program called Youth Technology and Leadership Program in Blewitt Middle School in SLPSD.

Rockwood School District

I taught gifted 4th and 5th graders at the Center for Creative Learning, a gifted pull-out program, at the Rockwood School District, a suburban St. Louis

district.