

Computer Science and Engineering
University of South Florida, FL 33620
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Education

Vanderbilt University, Nashville, TN
Ph.D. in Computer Science, August 2005
Master of Science in Computer Science, January 2002

University of Southern California, Los Angeles, CA
Graduate level coursework in Physics, 1999

Jilin University, Changchun, Jilin, China
Bachelor of Science in Physics, July 1997

Experiences

Instructor III and Director of Broadening Participation in Computing, Computer Science and Engineering, University of South Florida, 2020-present

Instructor II, Computer Science and Engineering, University of South Florida, 2012-2020

- **BPC Committee co-chair (2018- present)**
Led the USF team for the NCWIT Learning Circle Project
Develop BPC departmental plans
- **Faculty Advisor of WiCSE (2012-present)**
Created outreach programs
Created mentoring programs
Organized diversity focused conference trips for women students

Instructor I, Computer Science and Engineering, University of South Florida, 2005-2012

Courses taught:

- **Program Design**, 2009, 2015-present
Teaches how to design a program of moderate complexity in C. Topics include functions, pointers, recursive functions, dynamic memory allocation, header files, structure, file I/O, program design, and compile, test, and debug C programs on a networked Unix/Linux system.
- **Programming Concepts**, 2005- 2015
An introductory programming class in java. Topics include problem solving, program design, implementation, and testing, object-oriented concepts including classes, objects, and encapsulation.

- **Computer Animation, 2005 – present**
Covered storyboarding, camera control, hierarchical character modeling, inverse kinematics, keyframing, motion capture, dynamic simulation, and facial animation. Software: Autodesk Maya, Adobe Premiere
- **Ethical Issues/Professional Conduct, 2013 – present**
Discusses ethical issues in the computing fields such as privacy, intellectual properties, freedom of expression, safety, and workplace ethics.
- **Program Design for Information Technology, 2016-present**
Teaches how to design a program of moderate complexity in C. Topics include functions, pointers, recursive functions, structure, file I/O, program design, and compile, test, and debug C programs on a networked Unix/Linux system.
- **Intro to Discrete Structures, 2006 – 2012**
An introductory course in Discrete Mathematics oriented toward Computer Science and Engineering. Topics include Logic and Logical proofs, Sets, Functions, Algorithms, Relations, Induction, Recursion, Counting principles, Probability theory, Boolean algebra, Graph and Trees
- **Computers and Impact on Society, 2011 - 2015**
Discusses the components of a computer system, software categories, the impact on methods of conducting business, the impact of unethical conduct, internet, the components and the global impact of the World Wide Web, the impact of technology on society, computer privacy, piracy, and security measures.
- **Advanced Java, 2005 – 2007**
A comprehensive and balanced introduction to Java, as a whole software package for solving real world problems. Topics include fundamentals of the object-oriented programming concepts in the context of Java environment, graphic user interface, JSP, Servlet, databases and networks.

Instructor, STEM Research for Scholars pre-college program at University of South Florida, 2012-2015

- Designed and taught the computer science course. Students applied their creativity in problem solving in the context of computer animation, bioinformatics, computer security, and computer programming.

Professional Activities

Speaking Engagements

- Panelist, “Women in Cybersecurity”, USF, June 2019
- Presenter, Advisory board meeting, CSE department, USF, October 2019
- Reader for Significant of the Order, Graduation Ceremony, College of Engineering, University of South Florida, May 2018
- CSE Roadshow presentation, Great American Teach-in, Bowers-Whitley Career Center, November 19, 2015
- Reader for Order of Engineer History, Graduation Ceremony, College of Engineering, University of South Florida, May 2012

- “What is Computer Science and Engineering?”, Great American Teach-in, November 19, 2015
- “Computer Science and Engineering at University of South Florida”, May 9, 2012, WISE Bayshore High School field trip, lab tour
- “Programming Concepts”, Science Curriculum: A Look into the Future, Chamberlain High School, October 19, 2007, Tampa, Florida
- “Computer Animation”, ACM USF Student Chapter, University of South Florida, October 2005
- “Synthesizing and Evaluating Data-Driven Motion Transitions”, University of South Florida, April 2005
- “Synthesizing and Evaluating Data-Driven Motion Transitions”, North Carolina Central University, April 2005
- “Just Noticeable Difference for Motion Transitions”, The Midgraph Workshop, November 2004, Chicago, IL
- “Computing the Duration of Motion Transitions: An Empirical Approach”, ACM Symposium on Computer Animation, August 2004, Grenoble, France
- “An Empirical Approach to Using Interpolation as a Transition Method”, The Midgraph Workshop, St Louis, MO, November 2003
- “An Empirical Approach to Using Interpolation as a Transition Method”, Invited seminar presentation, CS With-it seminar, EECS, Vanderbilt University, October 2003
- “An Evaluation of a Cost Metric for Selecting Transitions between Motion Segments”, ACM Symposium on Computer Animation, July 2003, San Diego, CA

Professional Services

- Committee co-chair, Departmental Broadening Participation in Computing Committee, 2018-present, University of South Florida
- Faculty advisor for WICSE (Women in Computer Science and Engineering) at USF, 2012-present, University of South Florida
- Faculty representative of USF in NCWIT (National Center for Women & Information Technology), 2011- present
- Member of departmental Undergraduate Program Committee, 2007 – 2018, University of South Florida
- Member of departmental Outreach Committee, 2006 – 2007, University of South Florida
- Member of departmental Infrastructure Committee, 2005 – 2007, University of South Florida

Awards and Honors

- USF Women in Leadership & Philanthropy Dr. Kathleen Moore Faculty Excellence Award, 2020
- Outstanding Undergraduate Teaching Award, University of South Florida, 2011

- Innovative Teaching Grant, University of South Florida, 2008
- Teaching/Research Assistantship, Vanderbilt University, Nashville, TN 1999-2004
- McMinn Fellowship, Vanderbilt University, Nashville, TN, 1999-2000

Publications

Wang, J, Goldgof, D., Christensen, K., “WiCSE: Impact of a Women’s Support Group on Increasing the Percentage of Women Students in a Department of Computer Science and Engineering”, draft accepted by American Society for Engineering Education 2019

Sulav Malla, Jing Wang, William Hendrix, Ken Christensen, “CS2 Student Success at University of South Florida”, IEEE Frontiers in Education, 2019, abstract accepted

Wang, J., and B. Bodenheimer, “Optimization and Empirical Evaluation of Motion Transitions”, *ACM Trans. Graph.* 27, 1, March 2008

Wang, J., and B. Bodenheimer, “Computing the Duration of Motion Transitions: An Empirical Approach”, *2004 ACM SIGGRAPH/Eurographics Symposium on Computer Animation*, pp. 337-346, Grenoble, France, August 2004

Wang, J., and B. Bodenheimer, “An Evaluation of a Cost Metric for Selecting Transitions between Motion Segments”, *2003 ACM SIGGRAPH/Eurographics Symposium on Computer Animation*, pp. 232-238, San Diego, CA, July 2003