

## Curriculum Vitae

**Stephanie Elizabeth August, Ph.D.**  
**Department of Electrical Engineering and Computer Science**  
**Loyola Marymount University**  
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### EDUCATION

- Ph.D. University of California, Los Angeles** June 1991  
Computer Science  
Dissertation title: ARIEL: An Approach to Understanding Analogies in Arguments
- M.S. University of California, Los Angeles** December 1985  
Computer Science  
Thesis title: Analogy Recognition and Comprehension in Editorials
- B.A. University of California, Los Angeles** December 1972  
Slavic Languages,

### ACADEMIC EMPLOYMENT

- Loyola Marymount University, Los Angeles, California  
Department of Electrical Engineering and Computer Science  
Associate Professor August 2005 - present  
Assistant Professor August 1999 - July 2005  
Adjunct Professor/Lecturer August 1993 - May 1999
- Special Assistant to the Chief Academic Officer for Graduate Studies  
July 2010 - May 2012
- University of California, Irvine Spring 1998  
School of Information and Computer Sciences, Lecturer
- University of California, Los Angeles Fall 1994 - Spring 1995  
School of Engineering and Applied Science, Lecturer

### WORK EXPERIENCE

- Side Effects Software, Inc., Santa Monica Oct - Dec 2012  
Professor-in-Residence  
Project manager for 3D animation student cohort  
Side Effects produces procedural 3D animation and visual effects software tools.

Learning Tree International, Reston VA 1997 - 2007  
Instructor and Technical Editor, *Relational Database Design, Tools, and Techniques*

Hughes Aircraft Company, El Segundo, California 1980 - 1993  
Electro-Optical and Data Systems Division, Software Engineer

## **TEACHING/ADVISING**

### Courses Taught

\* Designed or co-designed by instructor(s)

+ Interdisciplinary, team-taught course

CMSI 182 Introduction to Computer Science  
CMSI 185 Computer Programming  
CMSI 186 Programming Laboratory  
CMSI 387 Operating Systems  
CMSI 398/ANIM 398 \*+ Programming 3D Animation Tools  
CMSI 401 Software Engineering Laboratory  
CMSI 402 Senior Project Laboratory  
CMSI 485 \* Artificial Intelligence  
CMSI 486 Introduction to Database Systems  
CMSI 499 Independent Study:  
Advanced Topics in Artificial Intelligence  
Natural Language Understanding  
Scripting for Virtual Worlds  
CMSI 499/599/699 Independent Study: Various Internship Experiences  
CMSI 586 Database Design and Database Systems I  
CMSI 601 Graduate Seminar  
CMSI 641 Software Engineering  
CMSI 677 \* Artificial Intelligence  
CMSI 682 \* Knowledge-based Systems  
CMSI 686 Database Design and Database Systems II  
CMSI 698 Special Studies:  
\* Advanced Topics in Database Systems  
\* Advanced Modeling of Software Systems  
\* Artificial Intelligence Applications  
\* Aspect-Oriented Software Development  
\* Human-Agent-Robot Teamwork  
\* Model-driven Engineering  
\* Multi-agent Systems and Distributed AI  
\* Research Methods  
CMSI 698/ENGL 598 \*+ Special Studies: New Media Workshop  
CMSI 699 Independent Study:  
Artificial Intelligence Applications I, II  
Aspect-Oriented Programming

Data Warehousing  
Knowledge Discovery in Databases  
Learning-focused Digital Interaction  
FFYS 1000 \* Ideas to Code: Introduction to Problem Solving and Programming

#### Advising Responsibilities

- Academic advisor to one cohort of undergraduate majors, 14-18 per year (2013 - present)
- Academic advisor to 85 M.S. Computer Science graduate students (2002 - 2011)
- Advisor on 28 M.S. Computer Science projects (1996 - 2011)
- Project Advisor, M.A. Early Childhood Education - Mathematics, Madeline Schiller: Virtual Children's Museum (2012)
- Advisor, Undergraduate Research Symposium, Bellarmine College of Liberal Arts Psychology, Thomas Ousterhout: The Matrix Has You, Research project (2009)
- Reader, College of Business Administration, Timothy Lui, Senior honors thesis on expert systems (2009)

#### SCHOLARSHIP/CREATIVE WORKS

- \* Denotes undergraduate author
- + Denotes graduate student author

#### Published Works

**August, S.E.**; Hammers, M.L.; Murphy, D.B.\*; Neyer, A.\*; Gueye, P.+ and Thames, R.Q. \* "Virtual Engineering Sciences Learning Lab: Giving STEM education a Second Life™." *IEEE Trans. on Learning Technologies* [Online]. In publication. DOI: [10.1109/TLT.2015.2419253](https://doi.org/10.1109/TLT.2015.2419253)

**August, S.E.**; Fraser, M.A.\* and Vazquez, M.A.\* (2014) "Teaching artificial intelligence as a lab science: basic and informed search" (abstract only). *Proceedings of the 45<sup>th</sup> ACM technical symposium on computer science education (SIGCSE '14)*. ACM, New York, NY, USA, 709-709. DOI: [10.1145/2538862.2544273](https://doi.org/10.1145/2538862.2544273)

**August, S.E.** and Ryoo, J. (2014) "Can 3D virtual world environments and game-based learning effectively teach computer science concepts?" (abstract only). *Proceedings of the 45<sup>th</sup> ACM technical symposium on computer science education (SIGCSE '14)*. ACM, New York, NY, USA, 737-738. DOI: [10.1145/2538862.2544264](https://doi.org/10.1145/2538862.2544264). Presented as a Birds-of-a-Feather Section, SIGCSE '14.

**August, S.E.** (2013) "Tsunami Warning System: a case study of intelligent agents." *27<sup>th</sup> AAAI Conference on Artificial Intelligence, 4<sup>th</sup> Symposium on Educational Advances in Artificial Intelligence*, July 14–18, 2013, Bellevue, WA. <http://modelai.gettysburg.edu/>.

Doran, S.+ and **August, S.E.** (2013) "Reddo: a model driven engineering toolset for embedded software development." *HILT '13 Proceedings of the 2013 ACM SIGAda*

*Annual Conference on High Integrity Language Technology*, 47-48. DOI:  
[10.1145/2527269.2527274](https://doi.org/10.1145/2527269.2527274)

**August, S.E.** (2012) "Enhancing expertise, sociability and literacy through teaching artificial intelligence as a lab science." *119<sup>th</sup> Conference of the American Society for Engineering Education*, June 10-13, 2012, San Antonio, TX.

**August, S.E.**; Neyer, A.\*; Murphy, D.\*; Shokrgozar, D.+; Vales, J.I.+ and Hammers, M.L. (2011) "Engaging students in STEM education through a virtual learning lab." *118<sup>th</sup> Conference of the American Society for Engineering Education*, June 26-29, 2011, Vancouver, BC, Canada.

Neyer, A.\*; **August, S.E.**; and Hammers, M.L. (2011). "Working together: words and math." *Journal of Computing Sciences Colleges*, 26:4, 197-203.

**August, S.E.** and Abrams, L.C.\* (2010) "Database project as source of reinforcement and discovery." *Journal of Computing in Small Colleges*. 25:4, 172-178.

**August, S.E.**; Blythe, J.; and Gabrovsky, P.N. (2010) "Teaching methodology of artificial intelligence and related subjects: meeting industry's needs --- panel discussion." *3<sup>rd</sup> Consortium of Computing Science Colleges Southwest Regional Conference*, March 26-27, 2010, California Lutheran University, Thousand Oaks CA. *Journal of Computing in Small Colleges*. 25:4, 211-212.

**August, S.E.** and Dewar, J. (2010) "SoTL and community enhance one another to create impact at Loyola Marymount University." *Transformative Dialogues: Teaching & Learning Journal*. 4:1, 1-15.

**August, S.E.** (2009) "How cold war computers assign blame: an exploration of why machines think more but not more deeply." *Conference Abstracts, Digital Humanities 2009*, University of Maryland, College Park June 22 – 25, 2009, 21.

**August, S.E.** (2008) "The Living Room: a case study in artificial intelligence, collaborative systems and language understanding." *National Center for Case Study Teaching in Science* [Online], September 2008.  
[http://sciencecases.lib.buffalo.edu/cs/collection/detail.asp?case\\_id=256&id=256](http://sciencecases.lib.buffalo.edu/cs/collection/detail.asp?case_id=256&id=256)

Dionisio, J.D.N.; Dickson, C.L.; **August, S.E.**; Dorin, P.M.; and Toal, R. (2007) "An open source software culture in the undergraduate computer science curriculum." *inroads - The SIGCSE Bulletin*. 39:2, 70-74.

Whitley, L.C. (author), **August, S.E.** (technical editor) (2004-2006). *Relational Database Design, Tools, and Techniques*. Learning Tree International Course 382. Revisions U, V, and W. Los Angeles CA, Learning Tree International. Notes distributed to all students attending Course 382 in the U.S., Canada, and worldwide.

**The following were published prior to receiving tenure:**

**August, S.E.** (2003). "An effective interactive AI resource...does more than teach AI." Mehdi Khosrowpour (Ed.), *Proceedings of the 2003 Information Resource Management Association International Conference*. Hershey PA: Information Resource Management Association, 17-19.

**August, S.E.** (2003). "Fire and ice in the city." M. McCullough Editor, *FIRE and ICE: Imagination and Intellect in the Catholic Tradition*. Scranton PA: The University of Scranton Press, 149-156.

**August, S.E.**, and Dolan, C.P. (1992) "Hughes Research Laboratories: description of the Trainable Text Skimmer used for MUC-4." *Proceedings of the 4<sup>th</sup> Conference on Message Understanding (MUC4 '92)*. Association for Computational Linguistics, Stroudsburg, PA, USA, 189-196. DOI: [10.3115/1072064.1072094](https://doi.org/10.3115/1072064.1072094)

**August, S.E.**, and Dolan, C.P. (1992) "Hughes Research Laboratories Trainable Text Skimmer: MUC-4 test results and analysis." *Proceedings of the 4<sup>th</sup> Conference on Message Understanding (MUC4 '92)*. Association for Computational Linguistics, Stroudsburg, PA, USA, 104-107. DOI: [10.3115/1072064.1072076](https://doi.org/10.3115/1072064.1072076)

**August, S.E.** and McNamee, L.P. (1991). "ARIEL: A refined model of analogy understanding." *Proceedings of the 4<sup>th</sup> International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems*. Kauai, Hawaii, June 2-5, 1991, vol. II, 770-779.

**August, S.E.** and McNamee, L.P. (1990). "Integrating analogical reasoning in a natural language understander." *Proceedings of the 3<sup>rd</sup> International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems*, Charleston, South Carolina, July 16-19, 1990. vol. I, 538-545. DOI: [10.1145/98784.98881](https://doi.org/10.1145/98784.98881)

**August, S.E.** and Dyer, M.G. (1985) "Analogy recognition and comprehension in editorials." *Proceedings of the 7<sup>th</sup> Annual Conference of the Cognitive Science Society*. University of California, Irvine, August 15-1, 1985, 236-241.

**August, S.E.** and Dyer, M.G. (1985) "Understanding analogies in editorials." *Proceedings of the 9<sup>th</sup> International Joint Conference on Artificial Intelligence*. Los Angeles CA, August 1985, 845-847.

Grants - External

**August, S.E.** (2010) *Enhancing Expertise, Sociability, and Literacy through Teaching Artificial Intelligence as a Lab Science (TAILS)*. National Science Foundation Course, Curriculum, and Laboratory Improvement Grant #0942454, \$179,897, 2010 - 2015.

**August, S.E.** and Hammers M.L. (2009) *Encouraging Diversity in Engineering through a Virtual Engineering Sciences Learning Lab*. National Science Foundation Innovations in

Engineering Education, Curriculum, and Infrastructure Grant #0935100, \$196,177, 2009 - 2012.

### Grants - Internal

**August, S.E.** and Jaroszewicz, A. (2012) *Ideas to Code – Introduction to Programming for Everyone*. LMU Core Course Development Grant. \$5,000, Summer 2012

**August, S.E.** and Shoepe, T.C. (2011) *NTLS 255 – Technology Integration*. LMU Academic Technology Grant to port to the Android platform the prototype *iEnergy: Mobile software for an energy balance recorder*. \$6,000. Prototype of this hand-held device to help users track caloric intake was developed as a term project in my Fall 2010 CMSI 641 Software Engineering course. The app is currently available on iTunes: <https://itunes.apple.com/us/app/lmu-ienergy/id540776569?mt=8>

**August, S. E.** (2007) *Use of Guided Lab Experiments to Increase Interpersonal Orientation of Computer Science Courses and Enhance Development of Mental Models*. LMU Center for Teaching Excellence Grant in the Scholarship of Teaching and Learning 2006-2007.

**August, S.E.** (2001) *Research Environment for Studying Computational Models of Natural Language Processing*. Loyola Marymount University Rains' Research Funds. Spring and Summer 2001.

**August, S.E.** (2000) *An Artificial Intelligence Development Environment*. Loyola Marymount University Summer Grant in Aid of Research. \$3,500

### Peer-reviewed or Invited Conference Presentations

**August, S.E.** and Jaroszewicz, A. (co-presenters) (2014) "Sneak peek Houdini/Python class." Presentation on interdisciplinary ANIM/CMSI Programming 3D Animation Tools course at *Houdini Instructor Coffee Break* monthly instructor meeting, August 6 2014, Side Effects Inc. Invited.

**August, S.E.** and Ryoo, J. (co-presenters) (2013) "Virtual environments and game-based learning in the classroom." National Science Principle Investigators' Forum. Eight meeting online national forum presented September through November, 2013. <http://cliconference.org/pi-forum/> Refereed.

**August, S.E.** and Ryoo, J. (co-presenters) (2013) "Virtual environments in the classroom." PI-led Workshop Session C13, 2013 National Science Foundation Transforming Undergraduate Education in STEM, PI Conference, January 23-25, 2013, Washington, D.C. Invited.

**August, S.E.** and Hammers, M.L. (co-presenters) (2013) "Virtual environments & undergraduate education: lessons learned & future directions." Presentation, LMU Center for Teaching Excellence Teaching with Technology Day, January 18, 2013.

**August, S.E.** (presenter); Hammers, M.L.; Neyer, A.; Murphy, D.; Thames, R.Q.; Shokrgozar, D.; and Vales, J.I. (2013) "Engaging students in STEM education through a virtual learning lab." Poster, LMU Center for Teaching Excellence Teaching with Technology Day, January 18, 2013.

**August, S.E.** and Shoepe, T.C. (co-presenters) (2013) "Developing iPhone apps to support student learning." LMU Center for Teaching Excellence Teaching with Technology Day, January 18, 2013.

**August, S.E.** (presenter); Neyer, A.; Murphy, D.; Shokrgozar, D.; Vales, J.I.; and Hammers, M.L. (2012) "Engaging students in STEM education through a Vvirtual learning lab: progress update." Poster, National Science Foundation Division of Engineering Education and Centers Awardees Conference, March 5-7, 2012, Reston, VA.

**August, S.E.** and Hammers, M.L. (co-presenters) (2011) "Benefits and obstacles: interdisciplinary collaboration in Second Life." LMU Office of Faculty Development Faculty Colloquium, October 21, 2011.

**August, S.E.;** Toal, R.; and Ula, N. (2010) "Department of Electrical Engineering and Computer Science Assessment Action Plan." Center for Teaching Excellence, Scholarship of Teaching and Learning Showcase Week 2010, September 28 - October 1, 2010.

**August, S.E.;** Rosenblum, P. (co-presenters) (2010) "Interplay with computer science in critical code studies." Critical Code Studies Conference, July 23, 2010, University of Southern California, Los Angeles, CA. Invited.

**August, S.E.** (presenter); Neyer, A.\*; Shields, M.J.+; Vales, J.I.+; and Hammers, M.L. (2010) "Co-opting games and social media for education." *AI and Fun Workshop at the 24<sup>th</sup> Association for the Advancement of Artificial Intelligence (AAAI) Conference*, July 11–15, 2010, Atlanta, GA, Refereed; *Alelo University seminar series*, Alelo, Inc., August 27, 2010, Los Angeles, CA, Invited.

**August, S.E.,** and Hammers, M.L. (co-presenters) (2010) "Immersive Education: The Virtual Engineering Sciences Learning Laboratory project in Second Life." Immersive Education Initiative Boston Summit, Boston College, Boston MA, April 21-25, 2010. *22<sup>nd</sup> Annual Lilly Conference on College and University Teaching - West*, March 12-13, 2010, California Polytechnic State University, Pomona CA. Refereed.

Dvorak, D.; Telkamp, R.; Newton, C.; Harrington, S; Hecht, M; **August, S.E.;** Edwards, G.; and Zheng, Y. (2010) "Innovative approaches to software architecture development and analysis." Ground Systems Architecture Workshop 2010 Architecture-Centric Evolution (ACE) Working Group Session, Manhattan Beach CA March 2010. [http://gsaw.org/wp-content/uploads/2014/10/2010s11a\\_preview.pdf](http://gsaw.org/wp-content/uploads/2014/10/2010s11a_preview.pdf). Invited.



**August, S.E.** (presenter); Chiu, C.+; Doran, S.R.+; Kethuneni, S.+; Shields, M.+ and Simonyan, M.+ (2010) "Lessons learned in current application of model-driven engineering." Presentation, Ground Systems Architecture Workshop Architecture-Centric Evolution Working Group Session, Manhattan Beach CA, March 2010. Findings from graduate special studies course on model-driven engineering. Refereed.

Dewar, J. and **August, S.E.** (presenter) (2009) "SoTL creating community creating impact at Loyola Marymount University." Poster, Center for Teaching Excellence, Scholarship of Teaching and Learning Showcase Week 2009, September 29 - October 2, 2009. Refereed.

Dewar, J. (presenter) and **August, S.E.** (2009) "SoTL creating community creating impact: one institution's view." Poster, *International Society for the Scholarship of Teaching and Learning 2009 Conference on Solid Foundations, Emerging Knowledge, Shared Futures*. Bloomington, Indiana, United States, October 22-25, 2009. Refereed.

Marino, M; Wardrip-Fruin, N.; Douglass, J.; Losh, E. **August, S.E.** "Critical code and software studies". Panel, Digital Humanities 2009, University of Maryland, College Park June 22 – 25, 2009. Invited.

**August, S.E.** "Effective networking in and out of conferences." Panelist, University of California, Irvine, Institute for Software Research, Graduate Student Research Symposium, 1 June 2007, Irvine CA. Invited.

**August, S.E.** (2006) "Improved mental models through guided lab exercises: improving computer science education." Presentation, Summer Institute Scholar, 2006 Carnegie Academy for the Scholarship of Teaching and Learning Summer Institute for Developing Scholars, Columbia College, Chicago, June 8-10, 2006. Refereed.

**The following were published or presented prior to receiving tenure:**

**August, S.** (presenter) and Marino, B. (2005) "Teaching artificial intelligence as a lab science." *Pacific Southwest Regional Conference of the American Society for Engineering Education*, April 7-8, 2005, Los Angeles CA. Refereed.

Marino, B. (presenter) and **August, S.** (2005) "The gender firewall: overcoming obstacles to female student recruitment and retention in engineering and computer science." *Pacific Southwest Regional Conference of the American Society for Engineering Education*, April 7-8, 2005, Los Angeles CA. Refereed.

**August, S.E.** (2004) "Artful artificial intelligence: the use of natural language understanding software in new media pieces." LMU seminar on new media and the evolution of LMU's New Media Workshop. March 4, 2004. Invited.

Schmidt, P.P. (presenter) and **August, S.E.** "Agent-based support environment for flexible architectural analysis of embedded component-based systems." *Ground*



*Systems Architecture Workshop, 23-25 February 2000, The Aerospace Corporation, El Segundo, CA. Refereed.*

### Student Poster and Project Presentations

Hao, L.\*(presenter) and **August, S.E.** (2015) "TLAWA: tracking learning activities based on a web-based learning aid." Poster, *8<sup>th</sup> Consortium of Computing Sciences in Colleges Southwest Region Conference, March 27-28, 2015, Harvey Mudd College, Claremont CA.*

Loustau, J.\* (presenter) and **August, S.E.** "Teaching artificial intelligence as a lab science (TAILS) - agents." LMU Undergraduate Research Symposium, March 20, 2015, Loyola Marymount University, Los Angeles. Refereed.

**August, S.E.;** Fraser, M.A.\* (co-presenter) and Vazquez, M.A.\* (co-presenter) (2014) "Teaching artificial intelligence as a lab science: basic and informed search." Poster, *7<sup>th</sup> South Western Region Conference of the Consortium for Computing Sciences in Colleges, Northridge CA, March 14-15, 2014.*

Aviles, C. (presenter) and **August, S.E.** (2012) "Improving the design of autonomic computing systems by providing a standard autonomic computing library." Poster, LMU Seaver College of Science and Engineering Graduate Research Symposium, April 27, 2012.

Shokrgozar, D. (presenter); Xu, J.; and **August, S.E.** (2012) "Automated detection and correction of ARP spoofing, using hashing." Poster, LMU Seaver College of Science and Engineering Graduate Research Symposium, April 27, 2012.

**August, S.E.;** Murphy, D; Neyer, A.; Shokrgozar, D.; Thames, R.Q.; Gueye, N. (presenter); and Hammers, M.L. (2011) "VESLL activities and assessment results." Poster, *4<sup>th</sup> Consortium of Computing Sciences Southwest Regional Conference, April 1-2, 2011, Los Angeles, CA.*

**August, S.E.** and Gueye, N. (2011) Video of VESLL project screen capture of virtual artifacts in use. Poster, *4<sup>th</sup> Consortium for Computing Sciences in Colleges Southwest Regional Conference, April 1-2, 2011, Loyola Marymount University, Los Angeles CA.*

Kethuneni, S. (presenter); **August, S.E.;** Huang, L. (2011) "Ètude: Second Life behavior generator." Poster, *4<sup>th</sup> Consortium for Computing Sciences in Colleges Southwest Regional Conference, April 1-2, 2011, Loyola Marymount University, Los Angeles CA.*

Shokrgozar, D. (presenter); **August, S.E.** (2011) "Virtual logic circuit lab." Poster, *4<sup>th</sup> Consortium for Computing Sciences in Colleges Southwest Regional Conference, April 1-2, 2011, Loyola Marymount University, Los Angeles CA.*

Thames, R.Q.; Neyer, A.; (co-presenters) and **August, S.E.** (2011). Math for the right brained thinker. Presentation, Undergraduate Research Symposium, Loyola Marymount University, Los Angeles, 19 March 2011. Refereed.

**August, S.E.**; Hammers M.L.; S.; Murphy, D.; and Shokrgozar, D. (presenter) (2010) "VESLL: Virtual Engineering Sciences Learning Lab." Poster, 3<sup>rd</sup> Consortium for Computing Sciences in Colleges Southwest Regional Conference, April 26-27, 2010, California Lutheran University, Thousand Oaks CA.

Kethuneni, S.<sup>+</sup>, **August, S.E.**, and Vales, J.I.<sup>+</sup> (2009) "Personal health care assistant/companion in a virtual world." *AAAI Fall Symposium on Virtual Healthcare Interaction*, November 4-7, 2009, Arlington VA. Co-authored with master's students. Refereed.

Ousterhout, T. (presenter) and **August, S.E.** (2009) "The matrix has us: autonomous vehicles and artificial intelligence." Poster at LMU Symposium, March 2009. Refereed.

Bull, P.<sup>+</sup> and **August, S.E.** (presenter) (2007) "Web-Wumpus: a tool for integrated learning of agent architectures and expert systems." Presentation, University of California, Irvine, Institute for Software Research, Graduate Student Research Symposium, 1 June 2007, Irvine CA. Refereed.

#### Work under Consideration

Winkelmann, K.; **August, S.E.**; Ryoo, J. *Collaborative Research: STEM Education in Virtual Worlds Workshop Series*. Collaborative proposal #1536111 submitted February 2015 to NSF DUE IUSE in collaboration with Florida Tech and Penn State - Altoona. \$75,000 over two years for three workshops. Pending.

#### Work in Progress

**August, S.E.** "Enhancing expertise, sociability, and literacy through teaching artificial intelligence as a lab science (TAILS)." Journal article in preparation. Results from NSF CCLI Grant #0942454.

**August, S.E.**; Fraser, M.A.\*; Hao, L.<sup>+</sup>; Shields, M.<sup>+</sup>; Thames, R.Q.\*; Vazquez, M.A.\*; and Won, A\*. "TAILS modules: basic and informed search, agent architectures, adversarial search, conceptual clustering." Software, exercises, documentation, and scaffolding. Artifacts developed on NSF CCLI Grant #0942454.

**August, S.E.** and Ryoo, J.R. "Best practices for use of virtual environments and game-based learning in the STEM classroom." Summary and extension of NSF PI Forum discussions.

Jaroszewicz, A., **August, S.E.** (2012) *PythAn: Integrating Python and Animation in an Interdisciplinary Environment to Train and Retain STEM Students*. National Science Foundation Transforming Undergraduate Education in Science, Technology,

Engineering and Mathematics Grant Proposal #1245221, \$198,364. *Submitted May 25, 2012. Declined, in revision.* Collaboration between computer science, LMU Seaver College of Science and Engineering, and technical animation, LMU School of Film and Television.

Shoepe, T.C.; McManus, J.F.; **August, S.E.**; Mattos, N.L. Vollucci, T. and Sparks, P.R. "The relationship between instructor prompts and student engagement in synchronous online science sessions." Originally submitted to *Computers and Education*. In revision.

Shoepe, T.C.; McManus, J.F.; **August, S.E.**; Mattos, N.L. Vollucci, T. and Sparks, P.R. "Student engagement and class performance in synchronous online science sessions." Originally submitted to *The Internet and Higher Education*. In revision.

#### Dissertation Committees

Johnson, B.J. *TWELVE: Training With Experiential Learning in Virtual Environments*. Ph.D. Dissertation, Claremont Graduate School. Committee: Dr. Lorne Olfman, Dr. Stephanie E. August, and others. (Expected completion May, 2016)

Shoepe, T. *Engaging Undergraduate Students in an Online Science Course: The Relationship Between Instructor Prompt and Student Engagement in Synchronous Class Sessions*. Ed.D. Dissertation, Pepperdine University. Committee: Dr. Paul Sparks, Dr. Jack McManus, and Dr. Stephanie E. August. (December, 2012)

#### Grant Proposals Submitted but Not Funded

Hammers, M.L.; Strauss, E.; **August, S.E.**; Taylor, T. *The Humanities & Urban Ecology: A Community Based Approach to Ecological Stewardship*. Collaborative Research grant proposal submitted to the National Endowment for the Humanities. National Endowment for the Humanities Grant 10725492, \$296,587.

Tatarinova, T., **August, S.E.**, Kuleck G. *Development of Integrated Data Mining Tools for Functional Genomics*. Grant proposal submitted to National Science Foundation Advances in Bioinformatics, August 2008.

#### Master's Projects Advised

Hasan, M.F. Analysis of web log files using Hadoop Distributed File System and B+ tree indexing in MapReduce. (In progress)

Chiu, C. Application of MDA (model-driven architecture) methodology to benefit the Satellite Operations organization. (In progress)

Kethuneni, S. Etude: Nonverbal Behavior for Second Life Avatars. (in progress)

Mani, A.K. Smart Test Model for Windows 8. (December 2013)

- Aviles, C. Improving the Design of Autonomic Computing Systems by Providing a Standard Autonomic Computing Library. (December 2012)
- Shokgozar, D.A. Automated Detection and Correction of ARP Spoofing, Using Hashing. (August 2012)
- Abdel-Malak, I. Implementing an Ontology-Assisted Query of Relational Data in a Web Environment. (December 2011) *Related to TAILS NSF CCLI grant project.*
- Alarji, N. Network Security Model for Mobile Applications and Password Security. (August 2011)
- Doran, S.R. Reddo - Model Driven Engineering Tool for Embedded Software Development (May 2011)
- Vales, J.I. AIDSInfo KIOSK: Interactive Web-based Second Life Kiosk for Delivering Health Information. (December 2010)
- Shields, M.J. UML DOMinator: A Model Driven Framework for Software Development. (December 2010)
- Johnson, C.O. Teaching with Technology - Can Chat Bot Technology Be Used as a Means of Educating in Second Life? (May 2010)
- Alghumgham, H.R. Standby Database Solution for Disaster Recovery in Grid Control Systems. (May 2010)
- Yano, Y. Hybrid PCA System to Boost the Human Face Recognition Rates Using a Voting Method. (December 2009)
- Barrett, J.J. Westside Rentals iPhone Application. (May 2009)
- Ruiz, R. Using Backward Chaining Inference Engine on Social Networks to Screen Airport Passengers. (Spring 2007).
- Bull, P. Web-Wumpus: A Tool for Integrated Learning of Agent Architectures and Expert Systems. (May 2007)
- Elango, H. Evaluation of XML Query Language Using W3C Use Case. (Spring 2006)
- Walker, M. Application of Reactive Agent Architectures to Modeling the Utility of Space-Based Systems. (Fall 2005)
- Hall, D. Implementing Transaction Aspects Using AspectJ and AspectWerkz. (Fall 2005)
- Cheng, T. Advanced ADO.NET in Building Efficient Client Server Database. (Fall 2005)

Naber, R. Enforcing Privacy Policies in Database Systems. (Spring 2005)

McCosh, S. Comparison of Performance and Features of Native XML and Relational Database Systems (Spring 2005)

Venugopal, S.J. Applying Aspect-Oriented Programming to the Rhapsody Phrasal Parser and Generator. (Fall 2004)

Turner, J. 3D Visualization of Data Mining Clusters. (Fall 2004)

Khateeb, K. CreativeAuthor: A Visual Programming Language for Creative Multimedia Authoring. (Fall 2003)

Jahn, N. Dynamically Expandable Shopping Cart System. (Fall 2000)

Geddes, K.J. Tree Classification Tutor an Intelligent Tutoring System. (Spring 2000)

Broderick, Ron. Knowledge-based Aircraft Automation. (1996, Completed as part of NASA Fellowship NGT4-52401)

## **OTHER PRESENTATIONS**

### **Operation STEAMroller: Science, Technology, Engineering, Art, and Mathematics**

Fall 2013

Interdisciplinary symposium sponsored by LMU Department of Electrical Engineering and Computer Science, Seaver College of Science and Engineering College of Communications and Fine Art, Center for Urban Resilience, School of Education, and the Associate Provost for Research Advancement and Compliance. Stephanie E. August, Chair. The symposium consisted of three parts:

- State of the Art and Mind conceptual art exhibit by Jean-François Podevin.
  - . 6-week exhibit, August 26 – October 12, 2013, Loyola Marymount University, Wm. H. Hannon Library.
  - . Curated by Jamie Hazlitt, LMU Outreach librarian.
  - . Keynote speaker Colin Gardner, Ph.D., Professor of Critical Theory and Integrative Studies at the University of California, Santa Barbara.
  - . Attended by 75 people (faculty, staff, students, off-campus guests).
  - . LibGuide: <http://libguides.lmu.edu/steamroller>.
  - . Press release: <http://newsroom.lmu.edu/Page86067.aspx>
- (How) Are Interdisciplinary Studies Relevant to Academia and Industry?
  - . Panel discussion, August, S.E. (moderator); Rooks, C.T.; Strauss, E.; Hammers, M.; Sorotzkin, A.
  - . Loyola Marymount University, September 18, 2013.
- (How) Are Interdisciplinary Studies Relevant to Graduate Studies?
  - . Panel discussion, August, S.E. (moderator); Bodlović, A.; Carfora, J.; Flowers, M. García Moreno, J.; Martin, S.
  - . Loyola Marymount University, October 3, 2013

## Undergraduate Research Students

Evan Washington (Class of 2004), Don Murphy (2010), Allison Neyer (2011), Andrew Won (2013), Eric Jaso (2013), Haley Young (2013), Michael Fraser (2014), Miguel Vazquez (2014), Quin Thames (2014), Amir Moore (2015), Stephen Kersten (2015), Gastón Dondero (2016), Joaquín Loustau (2016), Marisol Castellanos (2016), Nick Zanobini (2016), Andres Lazo Hernandez (2017), Katia Lopez (2017), Sylvana Santos (2017)

## Graduate Research Students

Baharak Zali (2006), Shobana Venugopal (2006), Linara Zakirova (2009), James Ian Vales (2011), Arun Kumar Mani (2012), Sukhanya Kethuneni (2012), Kris Woods (2013), Naara Gueye (2013), Daryoush Shokrgozar (2014), Rendle Myles (2015), Poulomi Chatterjee (2016), Liyang Hao (2017)

## RELEVANT UNIVERSITY/PROFESSIONAL/COMMUNITY SERVICE

### Loyola Marymount University

- Academic Planning and Review Committee 2015 - present
- Trustee & Presidential Scholarship Committee 2015
- Advisory Board, Academy of Catholic Thought & Imagination present 2014 - present
- Research Council, January 2011 - present
- Advisory Board, Center for Ignatian Spirituality 2009 - 2013
- Academic Technology Committee 2010 - 2012
- Intercultural Advisory Committee 2010 - 2012
- Strategic Planning Working Group for White Paper on Academic Programs & Transformational Learning 2011
- Internationalization Advisory Council 2010 - 2011
- President's Leadership Development Committee 2009 - 2011
- Faculty Retention Toolkit Leadership Development Team 2009 - 2012
- Academic Technology Subcommittee of the LMU Board of Trustees 2006 - 2008

### Seaver College of Science and Engineering

- Systems Engineering Advisory Board 2014 - present
- Intercultural Pedagogy Workshop. CSE facilitator 2014 - present
- Undergraduate Research Symposium
  - . Selection Committee 2014-present
  - . Workshop: Writing a Research Abstract 2010, 2015
  - . Session Chair 2009
- Graduate Scholarships and Assistantships
  - . Committee Chair August 2003 - December 2011
  - . Committee member 2012

- Graduate Council September 2007 - August 2010
- Department Director for Graduate Studies June 2000 - July 2010
- Academic Technology Committee 2010 - July 2013
- Boeing Preferred Partners Corporate Agreement Team 2009

### **Professional**

- National Science Foundation Merit Review Panelist
  - . STEM+Computing Partnerships, Division of Research on Learning in Formal and Informal Settings 2015
  - . TUES Type 2&3/Collaborative Research Projects for the Computer Science Discipline 2013
  - . Innovations in Engineering Education, Curriculum, and Infrastructure (IEECI) Area 1 Innovations in Teaching and Learning 2010
- American Society for Engineering Education
  - . Paper reviewer 2011 - present
- Association for the Advancement of Artificial Intelligence
  - . Doctoral Consortium Program Committee member and paper reviewer 2009 - present
  - . Educational Advances in Artificial Intelligence Program Committee member and paper reviewer 2013 - present
- Association for Computing Machinery
  - . Special Interest Group for Computer Science Education: Reviewer 2011
  - . Los Angeles Chapter positions held (held over multiple years): Chapter chair, Program Committee, Chair of Technical Activity Committee for Artificial Intelligence, Auditor; Outstanding Member Award 2000 1993 - 2009
- Consortium for Computing Sciences in Colleges Southwest Regional Conference
  - . Speaker Chair 2014 - 2015
  - . Poster Chair 2012 - 2013
  - . Conference Chair 2011
  - . Program Committee member, paper reviewer 2010 - present
- External Evaluator for faculty member at University of the Pacific 2013
- Algebra tutoring to prepare students at Los Angeles Unified School District Westchester High School for the California Standards Tests 2010

### **RELEVANT HONORS, FELLOWSHIPS AND AWARDS**

LMU Seaver College Fellowship for Continuing Faculty. 2014.

Best Sponsored Project Award: Interdisciplinary Program. LMU Office of Research and Sponsored Projects Awarded to Stephanie E. August, EECS, and Michele L. Hammers, Communications Studies. 2011.