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1. Education

- **Doctor of Philosophy**, Computer Science (Software Engineering), Colorado State University, 2007. Dissertation: "Transforming UML Design Models"
- **Postgraduate Diploma in Education**, University of Technology, Jamaica, 1999.
- **Master of Science**, Computer Science (Computer Aided Learning), McGill University, Montreal, Canada, 1995.
- **Bachelor of Science**, Computer Studies, University of the West Indies (Mona), Jamaica, 1989.

2. Professional Experience

2.1. Teaching Experience

- **Assistant Professor**, Department of Computer Science, University of North Carolina Wilmington, 7/2006 to present.

Courses Taught:

CSC450: Software engineering (undergraduate)
CSC550: Software engineering (graduate)
CSC121: Introduction to Computer Science)
CSC385: Professional and Ethical Issues in Computer Science

- **Lecturer**, School of Computing & Information Technology, University of Technology, Jamaica, 1989-2000.

Courses Taught:

Software Requirements Engineering, Software Design Engineering, Software Implementation & Testing, Data Structures, Fundamentals of Programming Languages, C Programming, C++ Programming, Advanced C++ Programming, Pascal Programming, COBOL Programming, Assembly Language, Information Technology.

- **Lecturer (part-time)**, Computer Science Department, University of the West

Indies (Mona), Jamaica.

Courses Taught: User Interfaces

- **Instructor**, Computer Science Department, Colorado State University, 2003-2005.

Courses Taught:

CS166 Discrete Structures, CS514dl Software Product and Process Evaluation (Distance learning).CS517dl Software Specification and Design (Distance learning)

- **Teaching Assistant**, Computer Science Department, Colorado State University, 2000-2005.

Courses:

CS153: Introduction to Java, CS166 Discrete structures
CS301 Foundations of Computer Science

2.2. Administrative Experience

- Bachelor's degree curriculum development team member, University Council of Jamaica (UCJ).
- Strategic Plan development team member, University of Technology, Jamaica.
- Curriculum development & academic administration, Faculty of Engineering & Computing, University of Technology, Jamaica.

3. Research

3.1. Current Research Interests

Aspect oriented software development, distributed systems and middleware, model-driven software engineering, model transformations, software architecture and component-based software engineering.

3.2. Publications

- Peck, Sarah; Kline, Douglas; Reinicke, Bryan; Rosen, Drew; Simmonds, Devon M. System **Analysis of an Assurance of Learning System. Accepted for Publication** In proceedings of Information Systems Educators Conference (ISECON), Nashville TN, October 28 - 31, 2010.
- Wesley Williams and Devon M. Simmonds. **A Case Study in the Design of a Restaurant Management System.** In Proceedings of International Conference on

- Frontiers in Education: Computer Science and Computer Engineering (FECS), Las Vegas, Nevada, July 12-15, 2010. (Acceptance rate 26%).
- Dudley, J. and Simmonds, D. M. (2010) “**The Viability of UML Models in Small Web Applications**”, in Proceedings of the International Conference on Software Engineering Research and Practice, (SERP), Las Vegas, Nevada, July 12-15, 2010. (Acceptance rate 28%).
 - Boddoo, M. and Simmonds, D. M. (2010) “**A Comparison of Software Architectural Styles Using Aspects**”, in Proceedings of the International Conference on Software Engineering Research and Practice, (SERP), Las Vegas, Nevada, July 12-15, 2010. (Acceptance rate 28%).
 - D. Casey Tucker and Devon M. Simmonds. **A Case Study in Software Reengineering**. In Proceedings of 7th International Conference on Information Technology: New Generations (ITNG) 2010, Las Vegas, Nevada, April 2010 (Acceptance rate 28%).
 - Wuliang Sun, Eunjee Song, Paul Grabow, Devon M. Simmonds. (2009). **XMI2USE: A Tool for Transforming XMI to USE Specifications**, in proceedings of the 5th International Workshop on Foundations and Practices of UML (FP-UML), held in conjunction with the 28th International Conference on Conceptual Modelling, ER 2009, Gramado, Brazil. (Acceptance rate 40%).
 - Simmonds, D. M., Reddy, Y. R., Song, E. and Grant, E. (2009) “**A Comparison of Aspect-Oriented Approaches to Model Driven Engineering**”, in Proceedings of the International Conference on Software Engineering Research and Practice, (SERP 2009). (Acceptance rate 25%).
 - Devon Simmonds. “**In Support of An Aspect-oriented Approach to Migrating Distributed Applications**”, in proceedings of the 1st Caribbean Conference on Information and Communications Technology (CCICT2009), Kingston, Jamaica, March 16-18, 2009. (Acceptance rate 50%).
 - **Devon Simmonds**. "*Aspect-oriented Approaches to Model Driven Engineering*", In proceedings of the International Conference on Software Engineering Research and Practice, Las Vegas, Nevada, July 2008.
 - Royce Nobles, **Devon Simmonds**, Gene Tagliarini. "*Parametric Software Cost Estimation for the Solitary Programmer*", In proceedings of the International Conference on Software Engineering Theory and Practice, Orlando, Florida, July 2008.
 - **Devon Simmonds**. "Transforming UML Class Models", Ph.D. Dissertation,

Department of Computer Science, Colorado State University, May 2007.

- Arnor Solberg, **Devon Simmonds**, Raghu Reddy, Robert France, Sudipto Ghosh, Jan Øyvind Agedal. "*DEVELOPING DISTRIBUTED SERVICES USING AN ASPECT ORIENTED MODEL DRIVEN FRAMEWORK*", International Journal of Cooperative Information Systems (IJCIS), Vol. 15, No. 4, pp 535-564, December 2006.
- B. Baudry, T. Dinh-Trong, J.-M. Mottu, **D. Simmonds**, R. France, S. Ghosh, F. Fleurey, and Y. Le Traon. Challenges for Model Transformation Testing. In Proceedings of IMDT workshop in conjunction with ECMDA'06, Bilbao, Spain, July 2006.
- S. Ghosh, R. B. France, **D. M. Simmonds**, A. Bare, B. Kamalakar, R. P. Shankar, G. Tandon, and S. Yin, "A Middleware Transparent Approach for Developing Distributed Applications," Software Practice and Experience, Vol. 35, No. 12, pp. 1131-1154, May 2005.
- **Devon Simmonds**, Arnor Solberg, Raghu Reddy, Robert France, Sudipto Ghosh, "An Aspect Oriented Model Driven Framework", Accepted to the 9th International Enterprise Distributed Computing Conference (EDOC 2005), Enschede, The Netherlands, September, 2005.
- Arnor Solberg, **Devon Simmonds**, Raghu Reddy, Sudipto Ghosh, Robert France, "Using Aspect Oriented Technologies to Support Separation of Concerns in Model Driven Development", Proceedings of the 29th Annual International Computer Software and Applications Conference (COMPSAC 2005), Edinburgh, Scotland, July, 2005.
- **D. M. Simmonds**, S. Ghosh and R. B. France, "Middleware Transparent Software Development & The MDA", Proceedings of the WiSME Workshop in Software Model Engineering at UML'2003, San Francisco, USA, October, 2003.
- **D. M. Simmonds**, S. Ghosh and R. B. France, "An MDA Framework for Middleware Transparent Software Development & Quality of Service", In Proceedings of QoS in CBSE Workshop at RST'2003, Toulouse, France, June, 2003.
- **D. M. Simmonds**, S. Ghosh and R. B. France, "An MDA Framework for Middleware Transparent Software Development", In Proceedings of RTAS 2003 Workshop on Model-Driven Embedded Systems, Washington, D.C., May, 2003.
- **D. M. Simmonds**, S. Ghosh and R. B. France, "An Aspect Oriented Model

- Driven Architectural Framework for Middleware Transparency", In Proceedings of Early Aspects Workshop at the AOSD 2003 Conference, Boston, March, 2003.
- **D. Simmonds** and S. Ghosh, "Middleware Transparency through Aspect-Oriented Programming using AspectJ and Jini", Proceedings of SPIE ITCOM Conference on Java/Jini Technologies - II, vol. 4863A, Boston, August, 2002.

3.3. Presentations

- **Devon M. Simmonds**, "Middleware Transparent Software Development", Presented at Collaborative Workshop, Oslo Norway, May 29 – June 2, 2006.
- **Devon M. Simmonds**, "Middleware Transparent Software Development", Presented at Internal Department Workshop, Department of Computer Science, Colorado State University, Fort Collins, CO, September 16, 2005.
- **Devon M. Simmonds**, "Middleware Transparent Software Development", Presented at Collaborative Meeting with visiting French Researchers, Department of Computer Science, Colorado State University, Fort Collins, CO, July 12, 2005.
- **Devon M. Simmonds**, "Parallel Changes in Large-Scale Software: An Observational Case Study", Presented at Advanced Topics In Software: Measurement, Evaluation, Analysis Course, Department of Computer Science, Colorado State University, Fort Collins, CO, February 15, 2005.
- **Devon M. Simmonds**, "Two Case Studies of Open Source Software Development: Apache and Mozilla", Presented at Advanced Topics In Software: Measurement, Evaluation, Analysis Course, Department of Computer Science, Colorado State University, Fort Collins, CO, February 10, 2005.
- **Devon M. Simmonds**, "Middleware Transparent Software Development", Presented at Collaborative Meeting with visiting Norwegian Researchers, Department of Computer Science, Colorado State University, Fort Collins, CO, July 27, 2004.
- **Devon M. Simmonds**, "An Aspect Oriented MDA Framework for Middleware Transparency", Presented at Early Aspects Workshop at the AOSD 2003 Conference, Boston, March 17, 2003.

3.4. Posters/Panels

- **Devon M. Simmonds**, "Middleware Transparent Software Development", Poster

- presented at Information Science and Technology Colloquium, Fort Collins, Colorado, April 13-14, 2005.
- **Devon M. Simmonds**, "Middleware Transparent Software Development", Poster presented at Computer Science Research Symposium, Fort Collins, CO, April, 2005.
 - Panelist, in Ph. D. Qualifying Exam Panel Session, Department of Computer Science, Colorado State University, Fort Collins, CO, February, 2005.

3.5. Grants / Proposals

- Co-principle investigator, Digital Visualization and Analysis Tool, with Richard Huber, Karl Ricanek and Larry Cahoon, National Oceanic Atmospheric Association (NOAA), Amount \$289,000, February 2008, Proposal was rejected.

4. Service

4.1. Committees

Information Technology Major, Assessment of Learning Outcomes.

4.2. Reviewer

- Journal of Universal Computer Science (JUCS) Special Issue on "Software Components, Architectures and Reuse", 2007/2008.
- Member of Program Committee for the 4th International Workshop on Critical Systems Development Using Modeling Languages (CSDUML 2005).
- SoSym – Journal on Software and Systems Modeling.
- Int'l Journal of Software Engineering & Knowledge Engineering (IJSEKE).
- The 28th Annual International Computer Software and Applications Conference (COMPSAC 2004) and COMPSAC 2005.
- The 9th International Enterprise Distributed Computing Conference (EDOC 2005).

5. Professional Affiliations

- Member of the Institute of Electrical and Electronics Engineers (IEEE).