

**Devon Michael Simmonds**  
Computer Science Department  
University of North Carolina Wilmington  
Wilmington, NC-28403  
Tel: (910) 962-3819, Fax: (910) 962-7457  
Email: [simmondsd\[at\]uncw.edu](mailto:simmondsd[at]uncw.edu)  
URL: <http://people.uncw.edu/simmondsd/>

## 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 and component-based software engineering.

### 3.2. Publications

- **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 9<sup>th</sup> 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 29<sup>th</sup> 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

- Submitted the Data Visualization Tool Development NOAA Proposal # 2008-0180 with Richard Huber, Karl Ricanek and Larry Cahoon. 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 4<sup>th</sup> 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 28<sup>th</sup> Annual International Computer Software and Applications Conference (COMPSAC 2004) and COMPSAC 2005.
- The 9<sup>th</sup> International Enterprise Distributed Computing Conference (EDOC 2005).

## 5. Professional Affiliations

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