

Dario CORREAL

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Research Interest

Software Engineering, Software Architectures, Software Development Processes, Aspect Oriented Software Development, Model Driven Software Development.

Skills

- **Business Domain:** Team leadership, team work, project scheduling and management, customer relationship management, cross-functional communication and negotiation, high capacity of abstraction and analysis.
- **Software Engineering:** UML, Design Patterns, Software Architectures, and Model Driven Software Development.
- **Technology:** C, C++, Java, JEE, Eclipse (GMF/EMF), AspectJ, Spring, JavaScript, VBScript, Lotus Notes/Domino.
- **Languages:** English (fluent), French (intermediate), Spanish (first language).

Education

Ph.D., Computer Science, University of Los Andes, Colombia. 2004-2007
Dissertation: Definition and Execution of Multiple Viewpoints on Workflow Processes

M.S., Computer Science, University of Los Andes, Colombia. 1992-1994
Thesis: SETA - A Collaborative Decision Support System

B.S., Computer Science, University of Los Andes, Colombia. 1987-1992
Thesis: Joyce++ : A Distributed System Development Library for LANs

Working Experience

University of Los Andes Bogotá, Colombia
Assistant Professor August 2007–present
Lead researcher in the funded project MOOSAS focused on the use of model-oriented technologies in software product line architectures for real-time mobile applications. Lecturer of the courses: Software Architecture in the undergraduate program; Enterprise Architectures and Software Development Process Models in the continuing education division's certificate in software development (ECOS); Model Driven Development in the Master's in Software Engineering program.

LICEF Laboratory/TELUQ-UQAM Montréal, Québec - Canada
Research Assistant February 2006–July 2007
Responsible for the functional specification of a process model editor in the context of the Learning Object Repository Network (LORNET) Canadian project. Member of the research team focused on the use of Model Driven Software Development technologies applied to the integration of knowledge management processes and learning process models. Member of the team tasked with the redesign of the Master's in Information Technology (ETI) program.

University of Los Andes Bogotá - Colombia
Research Assistant January 2004 - August 2004
Member of the team responsible for the design and implementation of *Elegua*, an event-based integration middleware used to communicate heterogeneous and geographically distributed applications. Member of the architecture team of *Cumbia-XP*, an event-based workflow engine.

Scripta Software Inc. Bogotá - Colombia
Chief Executive Officer - Cofounder August 1998 - December 2003
CEO and Cofounder of Scripta Software, a company specialized in the development of workflow and collab-

orative applications. Developed and executed company's business plan. Architect and lead of the *Intrasuite* and *ScriptaCRM* products. *Intrasuite* is a collaborative suite composed of the following web applications: Callcenter, HelpDesk, Mailing, Human Resources, ExpenseReport, Process' Manuals, Purchase Orders, and an Intranet Content Management System (CMS). *Intrasuite* obtained the second place in the Lotus best application award Colombia-2000, and was sold in bundled with the Microsoft Exchange Server in Colombia. *ScriptaCRM* is a Customer Relationship Management web application, specially designed for financial companies.

University of Los Andes

Adjunct Instructor

Lecturer of the courses: Introduction to software programming and Software Architecture in the undergraduate program. Cooperative Work and Java Programming in the continuing education division's certificate in network software development (ESORED). Java Programming and Web Applications Architecture in the continuing education division's certificate in software development (ECOS).

Bogotá D.C. - Colombia

August 1998- August 2003

University of Los Andes

Instructor

Course instructor for: Data Structures, Operating Systems, Computer Networks, and Cooperative Work. Director of the research projects UAndes-XFlow and UAndes-JavaJoin, for the development of workflow engines based on synchronous and asynchronous open software tools. Advisor of 12 final projects in the undergraduate program (one-year of duration).

Bogotá D.C. - Colombia

August 1996 - July 1998

Liikkuva Systems International

Team Leader

Team leader on terrestrial navigation and vehicle tracking applications using Global Positioning Systems (GPS) technology and wireless communications. Architect and project leader of the vehicle tracking system "Avisor" for the Latin-American market. Technical and pre-sales support in Comdex-fall in Las Vegas 1994, and in the National intelligent transportation systems exhibition in Washington D.C. 1995.

Bogotá - Colombia, Sacramento, CA, USA

August 1994 - July 1996

Honors and Awards

Third place, ACM-SIGPLAN Student Research Competition, OOPSLA'06, Portland, OR, USA. October 23-24, 2006.

Third place, Student's Competition - I2LOR' 06, Montréal - Canada, November 9-10, 2006.

Publications and Presentations

D. Correal, R. Casallas. *Using Domain Specific Languages for Software Process Modeling*. 7th OOPSLA Workshop on Domain-Specific Modeling (DSM07), October 21-22, 2007, Montréal, Canada

D. Correal. *Extending e-Learning Process Models with Knowledge Management Viewpoints*. I2LOR06, Montreal - Canada, 2006

D. Correal, O. Marino. *Application of Aspect Oriented Process Viewpoints in e-Learning Systems*. I2LOR06, Montreal - Canada, 2006

D. Correal. *Definition and Execution of Multiple Viewpoints in Software Processes*. OOPSLA' 06. Portland, USA. 2006

O. Marino, R. Casallas, J. Villalobos, D. Correal, J. Contamines. *Bridging the Gap between e-learning Modeling and Delivery through the Transformation of Learnflows into Workflows*, Chapitre 2, Elearning networked Environments and Architectures : A Knowledge Processing Perspective, Springer Verlag, 2006.

R. Casallas, D. Correal, N. López. *Improvement of the testing process in a Global Development Software context*. Latin american conference on Informatics - CLEI05. Chile. 2005. (spanish)

R. Casallas, N. López, D. Correal: *Elegua: An Event Infrastructure for Application Cooperation*. COEA05, Erfurt, Alemania. 2005