

1438 Valencia Ave. Phone (949) 929-1006
Tustin, CA 92782 E-mail jromerom@uci.edu

Jose Virgilio Romero-Mariona

Education: Major: **Information and Computer Sciences.**

Doctorate. University of California, Irvine. June 2010

GPA: 3.97 / 4.0

Advanced to Candidacy on April 30th 2008

Masters. University of California, Irvine. June 2006

GPA: 3.92 / 4.0

Bachelor of Science. University of California, Irvine. June 2004

GPA: 3.5 / 4.0

Publications: Romero-Mariona, J., Ziv, H., Richardson, D.: Formality of the Security Specification Process. To appear in HICSS 2010 (43rd Hawaii International Conference on System Sciences). Kauai, HI. January 2010

Romero-Mariona, J., Ziv, H., Richardson, D., Bystritsky, D.: Secure and Usable Requirements Engineering. To appear in ASE 09 Doctoral Symposium (24th IEEE/ACM International Conference on Automated Software Engineering). Auckland, New Zealand. November 2009

Romero-Mariona, J., Ziv, H., Richardson, D.: Engineering Secure Software Through Requirements. To appear in SACNAS 09 (Society for the Advancement of Chicanos and Native Americans in Science). Dallas, TX. October 2009

Romero-Mariona, J., Ziv, H., Richardson, D., Bystritsky, D.: Towards Usable Cyber Security Requirements. CSIIRW 09 (5th Annual Workshop on Cyber Security and Information Intelligence Research). Knoxville, TN. April 2009

Romero-Mariona, J., Ziv, H., Richardson, D.: Later Stages Support for Security Requirements. Tapia 09 (5th Richard Tapia Celebration of Diversity in Computing Conference). Portland, OR. April 2009

Romero-Mariona, J., Ziv, H., Richardson, D.: SRRS: A Recommendation System for Security Requirements. RSSE 08 (International Workshop on Recommendation Systems for Software Engineering). Atlanta, GA. November 2008

Romero-Mariona, J., Ziv, H., Richardson, D.: Security Requirements Engineering: A Survey. Technical Report UCI-ISR-08-2. University of California, Irvine. August 2008

Romero-Mariona, J., Ziv, H., Richardson, D.: CCARCH: Architecting Common Criteria Security Requirements. IAS 07 (Third International Conference on Information Assurance and Security). Manchester, United Kingdom. August 2007

Romero-Mariona, J., Ziv, H., Richardson, D.: Toward Hybrid Requirements-based and Architecture-based Testing, ROSATEA 2007 (The Role of Software Architecture for Testing and Analysis). Boston, MA. July 2007

Romero-Mariona, J., Ziv, H., Richardson, D.: Toward Mapping of Security Requirements into Software Architectures. CSC 07 (Computer Security Conference). Myrtle Beach, SC. April 2007

Romero-Mariona, J. and Diallo, M.: Trust Management and its Importance to Secure Ubiquitous Systems. ISR Research Forum. University of California, Irvine. June 2007

Diallo, M., Romero-Mariona, J., Sim, S., Alspaugh, T., Richardson, D.: A Comparative Evaluation of Three Approaches to Specifying Security Requirements. REFSQ 06 (12th Working Conference on Requirements Engineering Foundation for Software Quality). Luxembourg. June 2006

Selected Awards Received:

National Science Foundation Fellow	2008
Hispanic College Fund/Google Scholar	2007
GAAN Fellow	2006-2007
Mazda/HSF Scholar	2006
Bridge to the Doctorate/NSF Fellow	2004-2006
Ronald E. McNair Research Scholar	2002-2003

Relevant Projects:

SURE: Dissertation project. Technique and system that will enable developers to not only create security requirements, but also transform them into artifacts useful at later stages of development. We envision this project to provide support for securing software systems from the requirements point of view, while making use of them during the testing stage.

CARCH: This project explores the notion of security software requirements using a technique called Common Criteria. I am the lead researcher of the project, and currently working on taking security requirements that have been developed using Common Criteria into architecture.

JayWalk: Project that involved the development of a tool that would take users on a tour of the UC Irvine campus. For this system, we implemented software that relied on GPS information, as well as audio and visual information.

Work/Research Experience:

Present-University of California, Irvine Software Engineering Researcher	Irvine, CA
Present –Panasonic Avionics Corporation Security Research and Development Intern	Lake Forest, CA
Summer 2007-Motorola Biometrics Division Quality Assurance/Product Testing Intern	Anaheim, CA

Languages:

Speak, read, write fluent Spanish/English

Affiliations:

California Alliance for Minority Participation (CAMP)
Association for Computing Machinery (ACM)
Society of Hispanic Professional Engineers (SHPE)