

# ROSSANA MOTTA

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**OBJECTIVE:** I am a biomedical engineer currently pursuing a Ph.D. in the Computer Science and Engineering department of UCSD. My goal is to work in the design of orthotic and prosthetic devices

## EDUCATION

- Ph.D. Computer Science** - University of California San Diego (2008-Present). Completion expected in 2014  
- Florida State University (2006-2008)
- M.S. Biomedical Engineering** - University of Pavia, Italy (2003-2005). Graduation grade: 110/110
- B.S. Biomedical Engineering** - University of Pavia, Italy (2000-2003). Graduation grade: 110/110 Cum Laude

## MAIN EXPERIENCE AND PROJECTS

- **Peer-to-Peer and Distributed Storage Systems** Researcher, 2008-present, 2 published papers
- **Security Protocols for Radio Frequency Identifiers** Researcher, 2007-2008, 3 published papers
- **Teaching Assistant**
  - University of California San Diego. Holding discussions, preparing and grading homework and exams  
Course taught: Discrete Mathematics, 2011-Present, 170-200 students
  - Florida State University. Holding discussions, grading homework and exams.  
Courses taught: Computer Literacy, 2006-2007, 60 students; Java, 2008, 30 students
- **Digital Rights Management in Mobile Peer-to-Peer System** Researcher, 2005-2006, 1 published paper
- **Directional asymmetry of the Vestibulo-Ocular Reflex**
  - M.S. thesis, 2005
  - Workshop European Space Agency, Noordwijk, Netherlands. Presenting an experiment to test vestibular responses in microgravity through electric stimulation of vestibular nerves. Accepted as a spare experiment for the 5<sup>th</sup> Student Parabolic Flight Campaign, 2005
- **Biomechanics of tendons in physiological and pathological conditions** B.S. thesis, 2003

## SKILLS AND QUALIFICATIONS

- 3D CAD
- Linux operating systems
  - Staff Moderator at Opensuse Linux Support board (2005-2010)
  - 8 published Linux applications and scripts for the KDE environment
- Matlab software
- Native-level proficiency of English and Italian
- Programming Languages: C, Java, Bash
- Nutrition for sport performance and exercise science
  - Certified Sport Nutritionist
  - Certified Personal Trainer
  - Vinyasa Yoga Teacher, 200 hrs certification by Yoga Alliance

## AWARDS

- Scholarship from the University of Pavia for a post-graduate program at the University of Essex, U.K., 2005-2006
- Scholarship from the University of Pavia for an exchange summer program at the University of Heidelberg, Germany, 2004
- Rotary Journalism Competition “Dal Nostro Inviato”, Italy. First prize, 1999

## RELEVANT COURSEWORK

- Prosthesis and Rehabilitation Engineering
- Robotics
- Physiology
- Chemistry and Biomaterials
- Biomechanics
- Biomedical Technologies

## **PUBLICATIONS**

- R. Motta, J. Pasquale: *Wireless P2P: Problem or Opportunity?* (AP2PS 2010)
- R. Motta, W. Nienaber, J. Jenkins: *Gnutella: integrating performance and security in fully decentralized P2P models* (ACMSE 2008)
- M. Burmester, B. de Medeiros, R. Motta: *Anonymous RFID authentication with constant key-lookup* (IJAC 2008)
- M. Burmester, B. de Medeiros, R. Motta: *Robust Anonymous RFID Authentication with Constant Key-Lookup* (ASICCS 2008)
- M. Burmester, B. de Medeiros, R. Motta: *Provably secure grouping-proofs for RFID tags* (CARDIS 2008)
- A. Liotta, R. Motta, L. Lin, *A File Protection Method for Peer-to-Peer Systems*, *Journal of Research in Computing Science*, NPI Press (ISSN 1870-4069), Vol. 23, pp. 151-160, 2006