

Sandro Fouché

CONTACT INFORMATION	Computer Science – SN/310 Montgomery College 7600 Takoma Ave. Takoma Park, MD 20912	sandro.fouche@montgomerycollege.edu http://mcfaculty.org/sandro (240) 567-1391
CITIZENSHIP	United States of America	
RESEARCH INTERESTS	Empirical methods and development of tools to support Blockchain technologies, digital fabrication and experimental evaluation of fundamental software engineering hypotheses.	
EDUCATION	University of Maryland , College Park, Maryland Ph.D in Computer Science December 2010 Dissertation Title: Large Scale Distributed Testing for Fault Classification and Isolation University of Maryland , College Park, Maryland B.S. in Computer Science May 1998	
CURRENT POSITIONS AND APPOINTMENTS	Montgomery College , Takoma Park, Maryland <i>Professor</i> , Computer Science and Information Systems	2019 –
PAST APPOINTMENTS	Towson University , Towson, Maryland <i>Assistant Professor</i> , Computer and Information Sciences University of Maryland , College Park, Maryland <i>Instructor</i> , Computer Science Department <i>Graduate Research Assistant</i> , Computer Science Department <i>Graduate Teaching Assistant</i> , Computer Science Department <i>Instructor</i> , Computer Science Department <i>Graduate Coordinator</i> , Software Engineering @ Maryland (SEAM) <i>Graduate Teaching Assistant</i> , Computer Science Department <i>Undergraduate Research Assistant</i> , Computer Science Department Georgetown University , Washington, District of Columbia <i>Adjunct Professor</i> , Computer Science Department	2012 – 2018 2010 2004 – 2010 2009 2008 2003 – 2004 2001 – 2003 1992 – 1995 2002 – 2008
PUBLICATIONS	<i>Standard-based Patient-centered Personal Health Record System</i> , Song, Pak, Kalabins, Fouché. International Conference on Ubiquitous Information Management and Communication (IMCOM 2017); Beppu, Japan January 2017. <i>Code Hunt as Platform for Gamification of Cybersecurity Training</i> , Fouché, Mangle. 2015. Proceedings of 1st International Code Hunt Workshop on Educational Software Engineering (CHESE 2015); Baltimore, Maryland, July 2015. <i>Moving Forward with Combinatorial Interaction Testing</i> , Yilmaz, Fouché, Cohen, Porter, Demiroz, Koc. 2014. Computer, vol.47, no.2, Feb. 2014 <i>Incremental Covering Array Failure Characterization in Large Configuration Spaces</i> ,	

Fouché, Cohen, Porter. 2009. Proceedings of the 2009 International Symposium on Software Testing and Analysis (ISSTA'09). Chicago, Illinois; July, 2009.

Enhancing Software Project Management Courses With Industry Participation, Tahmoush, Fouché, McMaster, Stuckman, Purtilo. 2009. Proceedings of the 2009 International Conference on Frontiers in Education: Computer Science & Computer Engineering (FECS 2009). Las Vegas, Nevada; July 2009.

Towards Incremental Adaptive Covering Arrays. Fouché, Cohen, Porter. 2007. Proceedings of the 6th Joint Meeting on European software engineering conference and the ACM SIGSOFT symposium on the foundations of software engineering: companion papers (ESEC-FSE'07). Dubrovnik, Croatia; September, 2007.

Techniques for Classifying Executions of Deployed Software to Support Software Engineering Tasks. Haran, Karr, Last, Orso, Porter, Sanil, Fouché. 2007. IEEE Transactions on Software Engineering 33(5).

PRESENTATIONS,
TALKS,
TECHNICAL
REPORTS

Blockchain: Design and Implementation, Fouché. 2018. Workshop & Panel at: National Society of Black Engineers: Minority Innovation Weekend at Morgan State University. Baltimore, Maryland; October 2018.

Blockchain & Cryptocurrency: Technology & Application, Fouché. 2018. Presentation & Panel at: Blockchain & Cryptocurrency Symposium, Financial Empowerment Center at Prince George's Community College. Largo, Maryland; September 2018.

Web Based Programming Practice with Code Hunt, Fouché, Mangle. 2016. Workshop at: Consortium for Computing Sciences in Colleges, Eastern Region 32th Annual Regional Conference (CCSC Eastern '16). Frostburg, Maryland; October 2016.

Pi for all: embedding embedded computing, Mangle, Fouché. 2016. Workshop at: Consortium for Computing Sciences in Colleges, Eastern Region 32th Annual Regional Conference (CCSC Eastern 16). Frostburg, Maryland; October 2016.

Mobile Teacher - a platform for interactive education beyond the classroom, Irani, Cole, Fouché, Nissan, Porter. 2014. Poster presented at: Consortium for Computing Sciences in Colleges, Eastern Region 30th Annual Regional Conference (CCSC Eastern '14). York, Pennsylvania; November 2014.

MobileTeacher: A Mobile Application for Outside-the-Classroom Learning, Fouché, Porter. 2012. Poster presented at: Innovations in Teaching and Learning Conference (ITL 2012), College Park, Maryland; April 2012.

MySQL-Skoll: Distributed Quality Assurance for MySQL 5.1. Sandro Fouché. 2007. MySQL Camp, Polytechnic University, Brooklyn, New York; August 23, 2007.

Skoll: Distributed Continuous Quality Assurance. Sandro Fouché. 2006. UMCP Software Day; November 3, 2006.

Classification of Partially Observed Data with Association Trees. Last, Fouché, Karr, Orso, Porter, Young. 2006. NISS Technical Report #164; November 2006

Large Scale Web Deployment. Sandro Fouché. 2006. University of Maryland, College Park; May 4, 2006.

A Tool for Statistical Detection of Faults in Internet Protocol Networks. Roberts, Fouché, Purtilo. 2002. UMCP Computer Science Department; CS-TR-4393, UMIACS-TR-2002-74.

GRANTS

Co-PI, *A Mobile Application to enable Citizen Scientists measure voluntary swim behavior in an Aquarium Setting*, Seed Funding from the School of Emerging Technologies, Towson University, 2016, \$29,400 (unfunded)

Co-PI, *Developing a Unified Toolset for Malicious Software Detection and Analysis*, University System of Maryland - Business Higher Education Forum, 2014, \$24,000 (unfunded)

PI, *Information Assurance Scholarship Program*, Department of Defense, 2013, \$139,398 (unfunded)

ACADEMIC
EXPERIENCE

Montgomery College, Takoma Park, Maryland

CMSC 110 Computer Concepts 2019–
CMSC 140 Introduction to Programming 2019–
CMSC 203 Computer Science I 2019–
CMSC 204 Computer Science II 2019–
CMSC 207 Discrete Structures 2019–

Towson University, Towson, Maryland

COSC 612 Graduate Software Engineering 2015–
ITEC 325 System Administration 2013–
COSC 412 Software Engineering 2013–
COSC 485/670 Reverse Engineering & Malware Analysis 2013–2017
CIS 217 Fundamentals Of Computer Hardware & Infrastructure 2016
COSC 236 Introduction to Computer Science I 2012–2013
CIS 211 Fundamentals Of Information Systems & Technology 2012

University of Maryland, College Park, College Park, Maryland

CMSC 412 Operating Systems 2010
CMSC 131 Computer Science I 2008
CMSC 212 Introduction to Low-Level Programming Concepts 2008

Georgetown University, Washington, District of Columbia

COSC 351 Computer Systems Fundamentals 2008
COSC 374 Operating Systems 2004
COSC 345 Software Engineering I 2003
COSC 251 Computer Systems Fundamentals 2002

PROFESSIONAL
EXPERIENCE

Technical Consultant 2011–2012
Medical Business Exchange, Vienna, VA

Expert Witness 2004–2006
Wiley, Rein, and Fielding, Washington, DC

Senior System Administrator 1998–2001
America Online, Inc., Dulles, VA

Senior System Administrator 1996–1998
Washington Post Co., Arlington, VA

System Architect 1996
Erols Internet Services, Springfield, VA

Software Design Engineer 1993–1994
Personal Library Software, Gaithersburg, MD

Software Design Engineer 1992
Microsoft Corporation, Redmond, WA

System Administrator
University of Maryland, College Park, Maryland

1991-1992

PROFESSIONAL
AND ACADEMIC
SERVICE

Journal Reviewer, Ledger; University Library System, University of Pittsburgh. **2018–**
Co-Contest Chair/Reviewer, Consortium of Computing Science in College, Eastern Re-
gion (CCSC-EA) 33rd Annual Conference; Muhlenberg College; Allentown, PA **2017**
Poster Chair/Reviewer, Consortium of Computing Science in College, Eastern Region
(CCSC-EA) 32nd Annual Conference; Frostburg University; Frostburg, MD **2016**
Program Committee/Reviewer, 14th Int'l Conference on Software Engineering Research,
Management and Applications (SERA); Towson University; Towson, MD **2016**
Poster Chair, Consortium of Computing Science in College, Eastern Region (CCSC-EA)
31st Annual Regional Conference; Stockton University; Stockton, NJ **2015**
Co-Advisor, TU Technology Club **2014–**
Co-Advisor, Upsilon Pi Epsilon **2014–**
Peer Reviewer, IEEE Computer / IET Software **2013–**
Co-Advisor, TU Cyber Defense Team **2012–**
Co-Advisor, TU Students for the Advancement of Information Technology **2012–2014**
Member, COSC Open House Committee **2012–2014**
Graduate Advisor, UMCP ACM Student Chapter **2002–2007**
Diversity Committee, UMCP Computer Science Department **2003–2005**
Education Committee, UMCP Computer Science Department **2003–2004**
Coach, UMCP Programming Team **2002–2004**
Executive Committee, UMCP Computer Science Department **2002–2003**
Graduate Executive Committee, UMCP Computer Science Department **2001–2003**
Chair, UMCP ACM Student Chapter **1991–1993**
President, UMCP Minority Computer Science Society **1990–1993**

AFFILIATIONS AND
ORGANIZATIONS

Association for Computing Machinery (ACM)
Electrical and Electronic Engineers Computer Society (IEEE-CS)
Upsilon Pi Epsilon (UPE)

AWARDS AND
HONORS

Verizon Graduate Fellowship **2001**