

## Sandro Fouché

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CONTACT INFORMATION	Computer Science – SN/310 Montgomery College 7600 Takoma Ave. Takoma Park, MD 20912	<a href="mailto:sandro.fouche@montgomerycollege.edu">sandro.fouche@montgomerycollege.edu</a> <a href="http://mcfaculty.org/sandro">http://mcfaculty.org/sandro</a> (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	<b>University of Maryland</b> , College Park, Maryland Ph.D in Computer Science Dissertation Title: Large Scale Distributed Testing for Fault Classification and Isolation <b>December 2010</b> <b>University of Maryland</b> , College Park, Maryland B.S. in Computer Science <b>May 1998</b>	
CURRENT POSITIONS AND APPOINTMENTS	<b>Montgomery College</b> , Takoma Park, Maryland <i>Professor</i> , Computer Science and Information Systems	<b>2019 –</b>
PAST APPOINTMENTS	<b>Towson University</b> , Towson, Maryland <i>Assistant Professor</i> , Computer and Information Sciences <b>University of Maryland</b> , 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 <b>Georgetown University</b> , Washington, District of Columbia <i>Adjunct Professor</i> , Computer Science Department	<b>2012 – 2018</b> <b>2010</b> <b>2004 – 2010</b> <b>2009</b> <b>2008</b> <b>2003 – 2004</b> <b>2001 – 2003</b> <b>1992 – 1995</b> <b>2002 – 2008</b>
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, Nisson, 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

<i>Technical Consultant</i>	2011–2012
Medical Business Exchange, Vienna, VA	

<i>Expert Witness</i>	2004–2006
Wiley, Rein, and Fielding, Washington, DC	

<i>Senior System Administrator</i>	1998–2001
America Online, Inc., Dulles, VA	

<i>Senior System Administrator</i>	1996–1998
Washington Post Co., Arlington, VA	

<i>System Architect</i>	1996
Erols Internet Services, Springfield, VA	

<i>Software Design Engineer</i>	1993–1994
Personal Library Software, Gaithersburg, MD	

<i>Software Design Engineer</i>	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) 33nd 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**