

# Moses C. James

Institute for Software Research  
Carnegie Mellon University  
5000 Forbes Ave.  
4125 Wean Hall  
Pittsburgh, PA 15213  
(412)268-4885  
[mcjames@cs.cmu.edu](mailto:mcjames@cs.cmu.edu)

## Education

Carnegie Mellon University	Software Engineering	Ph.D.	2016
Air Force Institute of Technology	Computer Science	M.S.	2008
Western Washington University	Computer Science	B.S.	2001

## Research Experience

### Carnegie Mellon University

Pittsburgh, Pennsylvania, 2011-present

- Edge-enabled Tactical Systems: study of context-aware information sharing in distributed mobile computing environments. Funding: Software Engineering Institute, Advisor: Travis Breaux

### Air Force Institute of Technology

Wright-Patterson Air Force Base, Ohio, 2006-2008

- Obfuscation Framework Based on Functionally Equivalent Combinatorial Logic Families: studied the gap between theoretical and practical software obfuscation. Funding: Air Force Office of Scientific Research and the Air Force Research Laboratory, Advisor: Lieutenant Colonel J. Todd McDonald

## Teaching Experience

### United States Military Academy

West Point, New York, 2009-2010

- IT 105 - Introduction to Information Technology: basic IT concepts, including beginning programming and web design; 120 college freshman

## Industry Experience

### United States Air Force

2003-2010

- Active duty communications and information/cyberspace operations officer

## **Air Force Operational Test and Evaluation Center**

Kirtland Air Force Base, New Mexico, 2008-2009

- Chief of Knowledge Management: Led a five-person team to launch the center's first MS SharePoint web portal

## **22nd Air Refueling Wing**

McConnell Air Force Base, Kansas, 2003-2006

- Deputy Information Technology Manager: Managed 90-person IT department supporting 3000-person military installation

## **Publications**

M. James, "Obfuscation Framework Based on Functionally Equivalent Combinatorial Logic Families", M.S. Thesis, Dept. Elect. and Comp. Eng., Air Force Institute of Technology, Wright-Patterson, Air Force Base, Ohio, 2008.

## **Posters/Presentations**

### **Obfuscation Framework Based on Functionally Equivalent Combinatorial Logic Families**

Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio, 2008.

### **A Data Flow Language for Modeling Privacy Requirements**

Software Research Seminar, Institute for Software Research, Carnegie Mellon University, Pittsburgh, Pennsylvania, 2011

### **GESTr – 3D Sensing Using Kinect for Xbox 360**

Carnegie Mellon University, Pittsburgh, Pennsylvania, 2011

## **Professional Memberships**

**Tau Beta Pi** (honor society), member since 2007

**Upsilon Pi Epsilon** (honor society), member since 2010

**Association for Computing Machinery**, member since 2011

**Institute of Electrical and Electronics Engineers**, member since 2011

## **Security Clearance**

Current **Secret** – eligible for **Top Secret**