

**William H. Turkett, Jr.**

Department of Computer Science, Wake Forest University

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**EDUCATION**

- Doctor of Philosophy, Computer Science August 2004  
University of South Carolina (Columbia, SC)  
*Robust Multiagent Plan Generation and Execution with Decision-Theoretic Planners*, Advisor: John R. Rose
- Bachelor of Science, Computer Science May 1998  
College of Charleston (Charleston, SC)

**APPOINTMENTS**

- Associate Professor with Tenure July 2011 – Present  
*Department of Computer Science, Wake Forest University, Winston-Salem, NC*
- Assistant Professor August 2004 – June 2011  
*Department of Computer Science, Wake Forest University, Winston-Salem, NC*  
(Visiting Assistant Professor from August 2004 to July 2005)

**AWARDED OR UNDER REVIEW EXTERNAL FUNDING**

- Funded: Google Corporation  
*Google CS Engagement for CS1 & CS 2: Business Focused CS1*  
PI: William Turkett  
Role: PI  
Duration and Amount: Spring 2015, \$5000
- Funded: National Science Foundation  
*An Evolutionary-Inspired Approach for Moving Target Defenses*  
PI: Errin Fulp, Co-PI: David John  
Role: Senior Researcher (1 month of summer salary)  
Duration and Amount: 10/2012 – 9/2014, \$197,420
- Funded: National Science Foundation  
*NeTS: Small: Motif-Driven Function and Association Discovery in Computer Networks To Support Management and Security of IT Infrastructures*  
PI: William H. Turkett, Jr., Co-PI: Errin Fulp  
Duration and Amount: 7/2010-6/2013, \$359,968
- Funded: National Science Foundation  
*Modeling Biological Networks in Arabidopsis through Integration of Genomic, Proteomic, and Metabolomic Data*  
PI: Gloria Muday, Co-PI: Jacquelyn Fetrow,  
Role: Senior Researcher (1 month of summer salary)  
Duration and Amount: 5/2009-4/2013, \$1,357,688

## RECENT REFEREED PUBLICATIONS

(Graduate Students Underlined; Undergraduate Students Italicized)

- Burg, J., Pauca, P., Turkett Jr., W., and Santago, P. (2016) Creating a STEM incubator to engage students in hands-on, relevant learning: A report from the field. In *Proceedings of the 21<sup>st</sup> Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE)*.
- Olex, A., Turkett Jr., W., Brzoza-Lewis, K., Fetrow, J., and Hiltbold, E. (2016) Impact of the Type 1 interferon receptor on the global gene expression program during the course of dendritic cell maturation induced by polyinosinic polycytidylic acid. *Journal of Interferon & Cytokine Research*. 36(6):382-400.
- Fulp, E., Gage, H., John, D., McNiece, M., Turkett, Jr. W., and Zhou, X. (2015) An evolutionary strategy for resilient cyber defense. In *Proceedings of the IEEE Global Communications Conference (GLOBECOM)*, 2015. [Acceptance rate: historically ~37% for oral presentation]
- Burg, J., Pauca, P., Turkett, Jr. W., Fulp, E., Cho, S., Santago, P., Canas, D., and Gage, D. (2015) Engaging non-traditional students in computer science through socially-inspired learning and mentoring. *Proceedings of SIGCSE 2015*.
- John, D., Smith, R., Turkett, Jr. W., Canas, D., and Fulp, E. (2014) Evolutionary based moving target cyber defense. *Proceedings of GECCO Comp '14 SECDEF Workshop*.
- Olex, A., Turkett, Jr. W., Fetrow, J., and Loeser R. (2014) Integration of gene expression data with network-based analysis to identify signaling and metabolic pathways regulated during the development of osteoarthritis. *Gene*, Volume 542(1), 38-45.
- Freedman, R., Guo, J., Turkett, Jr, W., Pauca, V. (2013) Hierarchical modeling to facilitate personalized word prediction for dialogue. *Proceedings of Plan, Activity, and Intent Recognition: Papers from the AAAI 2013 Workshop*.
- Lewis, D., Olex, A., Turkett, Jr., W., Fetrow, J., and Muday, G. (2013) A kinetic analysis of the auxin transcriptome reveals cell wall remodeling proteins that modulate lateral root development in Arabidopsis. *The Plant Cell*, Volume 25 Issue 9.
- Turkett, Jr., W., Fulp, E., Mcdanel, B., Bailey, L., and Thomas T. (2013) Analysis of communication patterns in network flows to discover application intent. *Proceedings of FLOCON 2013*.

## OTHER SCHOLARLY ACTIVITIES

- Development and co-leadership of new WFU Biomedical Informatics program
- Executive board member of WFU Center for Molecular Communication and Signaling
- Active participant in CRA Computing Community Consortium Leadership in Science Policy Institute (LiSPI), April 2015
- Adviser for 8 MS and 9 undergraduate students; on research committee for over 30 MS and PhD students (in Computer Science, Mathematics, Physics, and Biology)
- EuroTour Study Abroad Director (2008-2013)
- Paper reviewer for OUP Bioinformatics, SIGCSE Conference, CSTA Conference