

William T. Hallahan

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Research Interests

Program Synthesis, synthesis by example, verification

Education

Yale University

Computer Science, Prospective Ph.D.

Advisor: Ruzica Piskac

New Haven, CT

2015–2020 (Anticipated)

College of the Holy Cross

Bachelor of Arts in Mathematics, Computer Science (Double Major)

Thesis: Stability of the coefficients in the Kronecker product of a hook and a rectangle

Thesis Advisor: Cristina Ballantine

Worcester, MA

2011–2015

Research

Under Submission.....

W. Hallahan, E. Zhai, R. Piskac. **Automated Repair By Example for Firewalls.**

Publications.....

C. Ballantine, W. Hallahan. **Stability of coefficients in the Kronecker product of a hook and a rectangle.** *Journal of Physics A: Mathematical and Theoretical*, Vol. 49 (5), 2015.

Talks.....

Automated Firewall Repair via Example-Based Synthesis

IBM Programming Languages Day, IBM T.J. Watson Research Center

December 2016

Stability of the coefficients in the Kronecker product of a hook and a rectangle

College of the Holy Cross

April 2015

Poster Presentations.....

Automated Firewall Repair via Example-Based Synthesis

FMCAD 2016

October 2016

On the Kronecker Product of a Hook and a Box

JMM 2015

January 2015

Teaching

Teaching Assistant.....

Principles of Operating Systems

Taught by Avi Silberschatz

Yale University

Spring 2017

Introduction to Systems Programming & Computer Organization
Taught by Stanley C. Eisenstat

Yale University
Fall 2016

Led Tutorial Session.....

Algebraic Structures
Taught by Cristina Ballantine

College of the Holy Cross
Spring 2015

Technical Skills

Haskell, Python, SMT-LIB, C, and C++