

Andrew Rodriguez

COMPUTER SCIENCE RESEARCHER

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Education

Texas State University

PHD IN COMPUTER SCIENCE

San Marcos, Texas

May 2023

University of Texas Rio Grande Valley

M.S. IN COMPUTER SCIENCE

Edinburg, Texas

August 2021 - May 2023

Publications

Building Squares with Optimal State Complexity in Restricted Active Self-Assembly

SAND '22

ROBERT M. ALANIZ, DAVID CABALLERO, SONYA C. CIRLOS, TIMOTHY GOMEZ, ELISE GRIZZELL, ANDREW RODRIGUEZ, ET AL.

- Received the best student paper award.

Reachability in Population Protocols is PSPACE-Complete (Short Abstract)

JCDCG3 '22

BIN FU, TIMOTHY GOMEZ, ELISE GRIZZELL, ANDREW RODRIGUEZ, ROBERT SCHWELLER, TIM WYLIE

Reachability in Pkmin Cave Sublevels is PSPACE-Complete (Short Abstract)

JCDCG3 '22

ANDREW RODRIGUEZ

Experience

Texas State University — Department of Computer Science

TEACHING ASSISTANT

San Marcos, Texas

August 2023

Projects

AutoTile

TILE AUTOMATA SIMULATOR

Software created to assist in self-assembly research, written in Python.

Pascal Compiler

WRITTEN USING C, LEX, AND YACC

A Pascal Compiler that implements most of the language features. Includes the lexical analyzer, parser, and code generator.

PintOS

OPERATING SYSTEM WRITTEN IN C

Expanded on a toy OS to include priority scheduling, argument passing on the stack, system calls for user programs, virtual memory, and a multi-level indexed file system.

JOS-On-JOS Para-Virtual Hypervisor

HYPERVISOR WRITTEN IN C

Designed a hypervisor that ran JOS as a guest on top of a JOS host. Implemented Guest OS bootstrapping, extended page tables, and hyper calls.