# JOSHUA T. GUERIN | Curriculum Vitae

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 GitHub  •  in LinkedIn  •  f Facebook

## SUMMARY & SKILLS

Computer Science Professor  •  AI Specialist  •  Competitive Strongman

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|---|---|
| **SPECIALIZED SKILLS** | Answer Set Programming \| Knowledge Representation and Reasoning<br>Logic Foundations of AI \| Logical & Functional Programming \| SAT Solvers |
| **PROGRAMMING LANGUAGE** | **Experienced:** C \| C++ \| Clingo (Answer-Set Dialect) \| Haskell \| Java \| Python<br>**Familiar:** Javascript \| Lisp \| Matlab \| Perl \| PHP \| Prolog \| R \| Shell Scripting \| SQL |
| **FRAMEWORKS & TOOLS** | Docs Generators \| Git \| Graphviz/DOT Language \| LaTeX \| Unix CLI |

## EDUCATION

### UNIVERSITY OF KENTUCKY — Lexington, KY
**Ph.D., Computer Science** — 2012

Dissertation
Graphical Models for Decision Support in Academic Advising.

Relevant Coursework
Algorithm Design | Artificial Intelligence | Bayesian AI
Boolean Functions | Data Mining
Database Systems | Declarative Programming
Programming Languages

**M.S., Computer Science** — 2010

**Graduate Certificate, Cognitive Science** — 2009

### TRANSYLVANIA UNIVERSITY — Lexington, KY
**B.A., Computer Science** — 2002-2006
Minor: Psychology

## EXPERIENCE

### UNIVERSITY OF TENNESSEE AT MARTIN — Martin, TN
**Professor** — 2021-present
**Department Chair** — 2018-2021
**Interim Department Chair** — 2017-2018
**Associate Professor** — 2016-2021
**Assistant Professor** — 2012-2016

### UNIVERSITY OF KENTUCKY — Lexington, KY
**Research Fellowship** — 2012
Lexington Herald-Leader Research Fellowship

### TRANSYLVANIA UNIVERSITY — Lexington, KY
**Part-Time Instructor** — Fall 2011

### UNIVERSITY OF KENTUCKY — Lexington, KY
**Teaching & Research Assistant** — 2007-2011

## EXAMPLE PROJECTS/CODE

### DPLL
All examples are available on https://github.com/joshuaguerin.

- A Haskell implementation of the DPLL algorithm for CNF satisfiability.

### DOQMNT

- An Emacs extension for interactive generation of function/class/file documentation.

### ANSWER SET PROGRAMMING "ALGORITHMS"

- A set of classical problems solved in Clingo.

### KATTIS SOLUTIONS

- A set of solutions for problems on open.kattis.com/.

## EXAMPLE COURSES TAUGHT

### UNIVERSITY OF TENNESSEE AT MARTIN — 2012-Present

Algorithm Design and Analysis  •  Artificial Intelligence  •  Intro to C++
Autonomous Mobile Robotics  •  Computer Graphics  •  Data Structures
Discrete Mathematics  •  Microcontrollers Lab  •  Object-Oriented Programming
Programming Language Paradigms  •  Senior Capstone Project/Career Preparation
Theory of Computation  •  Quantum Programming