

Theodore S. Lindsey

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Education

MS, Computer Science , <i>University of Kansas</i> , Lawrence, KS, 3.63.	2014–2016
MA, Mathematics , <i>University of Kansas</i> , Lawrence, KS, 3.61.	2011–2014
BS, Mathematics , <i>Principia College</i> , Elsah, IL, 3.5.	2008–2011

Computer tools

Languages: Bash, C, C++, CSS, HTML, \LaTeX , Matlab, Python

Frameworks/Tools: Git, Mathematica, RegEx, SQLite, TkInter

Experience

Graduate Teaching Assistant, *University of Kansas*. **2011–Present**

Instructor of record for Intro to Programming (C++), Software Engineering lab, Calculus I, among others. Responsible for preparing lecture material, creating homework assignments, lecturing, and grading.

Software Development, *Personal Project*. **Summer 2015**

Designed, developed, and tested a digital cookbook application in Python and TkInter.

Team Lead, *Software Engineering Class Project*. **Fall 2014**

Team lead for a class project in which we wrote a cookbook application. Responsible for project architecture, scheduling, module integration, and spec authoring.

Mathematics Awareness Month Volunteer, *University of Kansas*. **2012–2014**

Designed and presented interactive lectures covering various core mathematical concepts for 5th graders. Organized and assisted with competitions and activities for K-12 students to raise math awareness.

Interests

Home automation: Atmel AVR (Arduino)-based automation.

Prop manufacturing: Mold-making, casting, fiberglass and resin, sculpture.

Multicopter UAS: Building and programming RC quadcopters

Presentations & Publications

On the Kalman Filter and Its Variations. M.A. thesis defense, University of Kansas, Lawrence, Kansas. April 18, 2014.

Ink-constrained halftoning with applications to QR codes. Mathematical Modeling in Industry XVII, Minneapolis, Minnesota. August 16, 2013.

Orthogonality Throughout Mathematics. MAA-MOMATYC contributed talk, Columbia College of Missouri, Columbia, Missouri. April 2, 2011.

Honors & Awards

Finalist for the *Florence Black Teaching Award* (University of Kansas) **2013–2014**

National Science Foundation Graduate Research Assistant (DMS-1108884) **2013**

Robert and Mary Keely Mathematics Award (Principia College) **2011**