Theodore S. Lindsey

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Education

MS, Computer Science, *The University of Kansas*, Lawrence, KS, 3.63. **Dec 2016**
MA, Mathematics, *The University of Kansas*, Lawrence, KS, 3.61. **May 2014**
BS, Mathematics, *Principia College*, Elsah, IL, 3.50. **Jun 2011**

Computer tools

Languages: Bash, C, C++, CSS, HTML, LaTeX, Matlab, Python
Frameworks/Tools: Git, Mathematica, RegEx, SQLite, TkInter

Experience

Graduate Teaching Assistant, *The 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, *Masters Project*. **2016**
Implemented a rule induction system (IRIM) from publication articles.

Team Lead, *Information Retrieval Class Project*. **Spring 2016**
Designed and built a search engine using the TF-IDF vector space model. Ranking responded to relevance feedback from user. Implemented a web crawler to index specific websites.

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, *The University of Kansas*. **2012-2015**
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.
Multirotor UAS: Building and programming RC quadcopters

Presentations & Publications

On the Kalman Filter and Its Variations. M.A. thesis defense, The 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* (The University of Kansas) **2013–2014**
National Science Foundation Graduate Research Assistant (DMS-1108884) **2013**
Robert and Mary Keely Mathematics Award (Principia College) **2011**