

# Theodore S. Lindsey

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## Education

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

## Computer tools

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

## Experience

<b>Graduate Teaching Assistant</b> , <i>The University of Kansas</i> . 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.	<b>2011–Present</b>
<b>Software Development</b> , <i>Masters Project</i> . Implemented a rule induction system (IRIM) from publication articles.	<b>2016</b>
<b>Team Lead</b> , <i>Information Retrieval Class Project</i> . Designed and built a search engine using the TF-IDF vector space model. Integrated relevance feedback from user into ranking algorithm. Implemented a web crawler to index specific websites.	<b>Spring 2016</b>
<b>Software Development</b> , <i>Personal Project</i> . Designed, developed, and tested a digital cookbook application in Python and TkInter.	<b>Summer 2015</b>
<b>Team Lead</b> , <i>Software Engineering Class Project</i> . Team lead for a class project in which we wrote a cookbook application. Responsible for project architecture, scheduling, module integration, and spec authoring.	<b>Fall 2014</b>
<b>Mathematics Awareness Month Volunteer</b> , <i>The University of Kansas</i> . 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.	<b>2012-2015</b>

## 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, 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 <i>Florence Black Teaching Award</i> (The University of Kansas)	<b>2013–2014</b>
National Science Foundation Graduate Research Assistant (DMS-1108884)	<b>2013</b>
Robert and Mary Keely Mathematics Award (Principia College)	<b>2011</b>