

# Theodore S. Lindsey

T (503) 898 0184  
E [tlindsey@ku.edu](mailto:tlindsey@ku.edu)  
[TheodoreLindsey.io](http://TheodoreLindsey.io)

## Education

<b>MS, Computer Science</b> , <i>The University of Kansas</i> , Lawrence, KS, 3.63.	<b>2014–2016</b>
<b>MA, Mathematics</b> , <i>The University of Kansas</i> , Lawrence, KS, 3.61.	<b>2011–2014</b>
<b>BS, Mathematics</b> , <i>Principia College</i> , Elsah, IL, 3.50.	<b>2008–2011</b>

## Computer tools

**Languages:** Bash, C, C++, CSS, HTML,  $\text{\LaTeX}$ , 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**, *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.

**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 *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**