

## WEBSITE

<http://marissaallen.space>

## EMAIL

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# MARISSA ALLEN

## EXPERIENCE

DALI Lab  
Senior Designer/Developer  
Staff  
Hanover, NH  
2014-2015

The Dartmouth Leadership and Innovation Lab (DALI) creates a wide-range of products, from websites and mobile apps to product design and digital fashion, for a diverse group of community partners and professional customers. As a Senior Designer/Developer on the DALI team, my responsibilities included:

- leading product design and development on a wide range of projects
- working with DALI partners to define their goals, meet their needs and answer their questions
- leading and mentoring teams of undergraduate DALI students
- organizing and leading weekly meetings and major events (such as The Pitch hosted by DALI and the Dartmouth Entrepreneurial Network)

Dartmouth College  
Master's Research  
Hanover, NH  
2014-2015

I created an interactive 3D pop-up card design app in iOS. The user sketches a 2D design and that design is converted into a folding 3D representation in kirigami pop-up form. My role in this project was:

- transforming the 2D shapes drawn by the user into 3D planes
- rendering the interactive 3D simulation
- creating the vector output to send to a laser cutter

Dartmouth College  
Teaching Assistant  
Hanover, NH  
Fall 2013

As a teaching assistant for the Introductory to Computer Science class, I worked with students on their lab homework:

- leading open-lab sessions in the evening
- teaching important concepts (such as parallel programming)
- answering questions and prepared my student section for upcoming labs
- grading labs and tests

## EDUCATION

DARTMOUTH COLLEGE  
2014-2015

Master's Degree  
Computer Science with a Concentration in Digital Arts

DARTMOUTH COLLEGE  
2010-2014

Bachelor's degree  
Computer Science Modified with Digital Arts

## PROFESSIONAL SKILLS

SWIFT ● ● ● ●  
SCENEKIT ● ● ● ●  
JAVA ● ● ● ●  
UNIX/BASH ● ● ● ●  
C++ ● ● ● ●

HTML/CSS ● ● ● ●  
PYTHON ● ● ● ●  
VHDL ● ● ● ●  
PROCESSING ● ● ● ●  
C ● ● ● ●  
JAVASCRIPT ● ● ● ●

ILLUSTRATOR ● ● ● ●  
PHOTOSHOP ● ● ● ●  
AFTEREFFECTS ● ● ● ●  
SOLIDWORKS ● ● ● ●  
MAYA ● ● ● ●

## AWARDS

24-Hour Make-A-Thon  
2nd Place 2014

Dartmouth Digital Arts Expo  
Stop-motion animation: "Toast"  
Marissa Allen & Ryan Smith

GraDiFab Publication  
2016

1st Eurographics Workshop On Graphics For Digital Fabrication  
*Foldlings: A Tool for Interactive Pop-up Card Design*  
Marissa Allen, Nook Harquail, & Emily Whiting