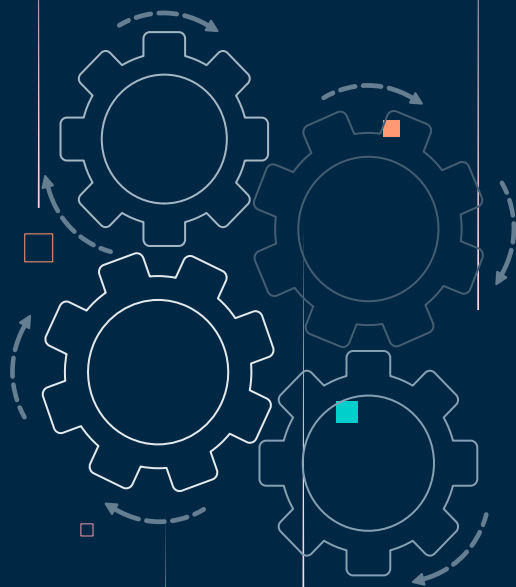


# MAKING CHANGES

Sustaining Innovative  
Services During a Pandemic

Lori Chapin  
Sarah Nagle  
Miami University Libraries



# What We'll Cover Today

1. Examples of online maker services
2. Maker Kits
3. Justifying new/ongoing costs of emerging tech to leadership

# About the MUL Makerspace

- Opened in August 2019
- Equipment:
  - 3D Printers
  - Carvey CNCs
  - Sewing/Embroidery Machines
  - Silhouette Cameos
  - Heat Press
  - Sublimation Printer
- From the Makerspace's opening in August 2019, to our COVID-related closure in mid-March, 2020, we saw **977 total walk-ins, and 312 unique registered users**



# In-person Events

- Total attendance for Fall 2019 Makerspace events was 561, and 115 for the first part of Spring 2020 semester before closing
- I Heart Art
- Creepy Crawly Crafts
- Craft Your Heart Out
- MakeHERspace



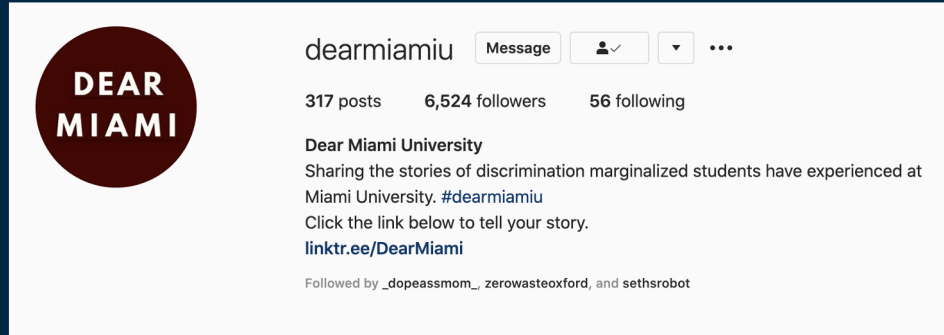


# Friday Make-Alongs

- Recreate community of in-person events
- Very simple projects
- Focus on student well-being, anti-stress

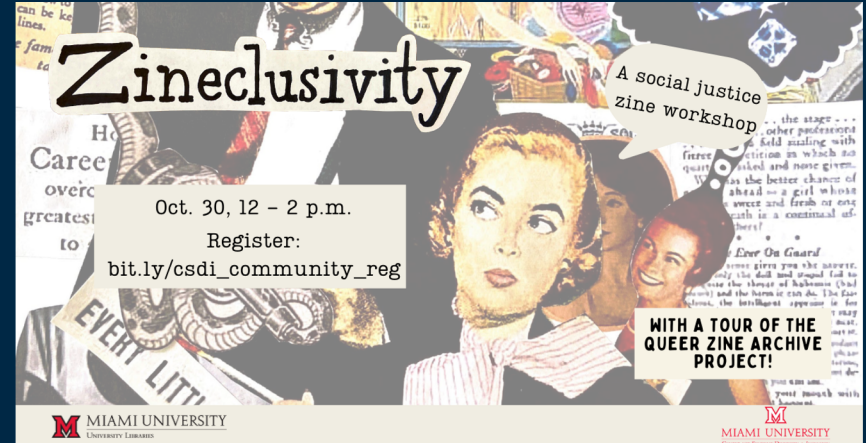


# Zineclusivity

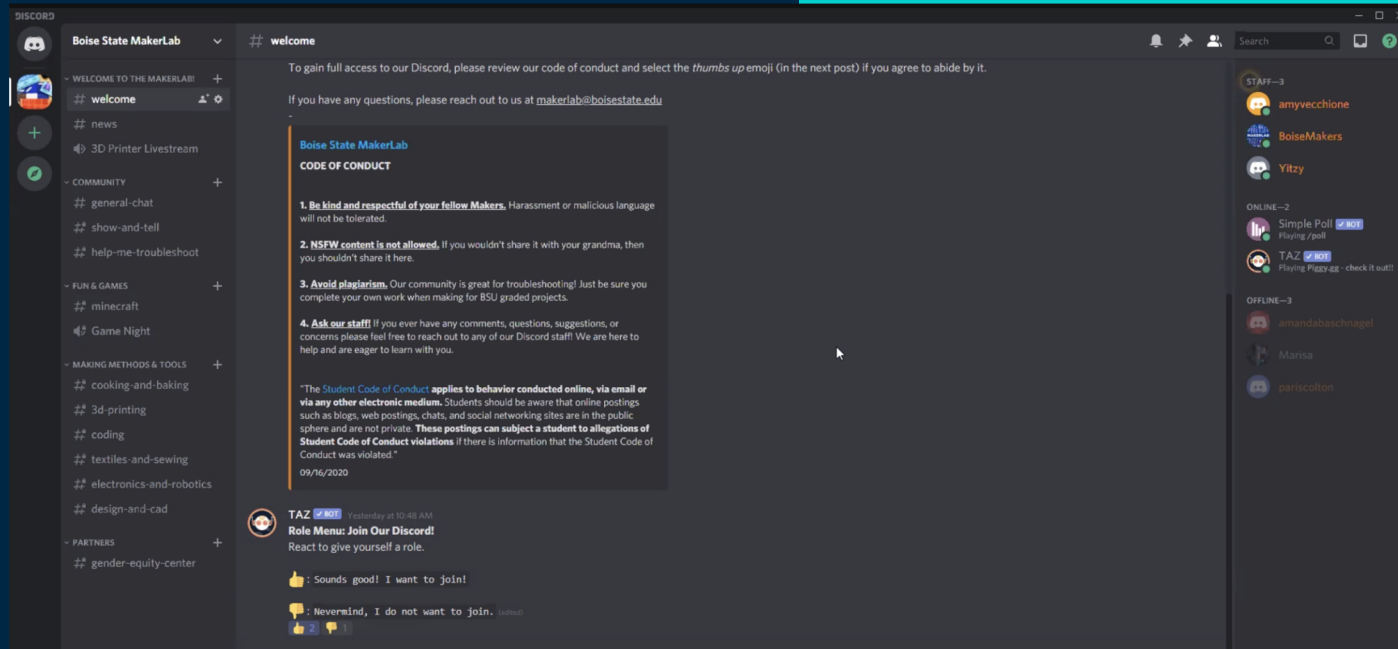


- Stories of discrimination, micro-agressions, sexual harassment
- Students expressing frustration

- Give students a voice and outlet
- “How can we make Miami more inclusive”
- Tour of Queer Zine Archive Project
  - Talk on using zines for social justice

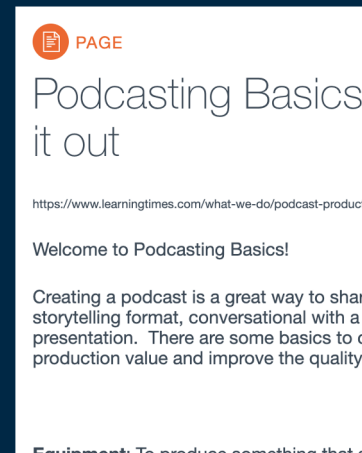


# Discord



Screenshot from Boise State MakerLab Discord Server

# Canvas Modules



# Libguides

Equipment specific  
&  
Spaces/Labs

The screenshot shows the Miami University Libraries website with a red header. The navigation bar includes links for "Research and Support", "Using the Libraries", and "About". Below the header is a black bar with the text "Create + Innovate". The main content area is titled "Makerspace Equipment Guides: Carvey" and includes a sub-header "Instructional content for users of the Makerspace." A sidebar on the left lists navigation options: "Home", "Lulzbot Mini 2", "Carvey" (highlighted in red), "Silhouette Cameo 3", and "Sewing Machines". The main content area features a "Carvey Guide" link with a PDF icon and the text "Download a PDF of this guide". Below this is a section titled "Carvey: General Information" which contains instructions on how to use the Carvey during Open Hours, a list of links to help get started with Carvey (Carvey User Manual, Easel Toolbars Cheat Sheet, and Carvey Bit Guide), and a "Machine Diagram" section. The diagram shows a line drawing of the Carvey machine with labels for the "Main Door" and "Gas Strut".

Miami University myMiami My Library Account Give to the Libraries

Research and Support - Using the Libraries - About -

Create + Innovate

## Makerspace Equipment Guides: Carvey

Instructional content for users of the Makerspace.

- Home
- Lulzbot Mini 2
- Carvey**
- Silhouette Cameo 3
- Sewing Machines

- Carvey Guide  
Download a PDF of this guide

### Carvey: General Information

To use the Carvey during Open Hours, you must first attend a training session. Please email [create@miamioh.edu](mailto:create@miamioh.edu) to schedule a training session.

Links to help you get started with Carvey:

- Carvey User Manual  
Complete guide to using Carvey.
- Easel Toolbars Cheat Sheet  
An overview of the various toolbars in Easel and what they do.
- Carvey Bit Guide  
A guide to what bit to choose for your project.

Machine Diagram

Main Door  
Gas Strut

# Libguides

## Making From Home Guide

### Making From Home Resources: Home

Home

At-Home Maker Projects

Online Tutorials



COVID-19: Make a  
Difference from Home

#### About This Guide

Even though the physical [Makerspace at King Library](#) is temporarily closed, there are still plenty of options to be creative and get your mind working from home. Being a maker is not about expensive machinery or any particular tool or technology. **It's a mindset.** The maker mindset means looking at the world around you and believing that you can create amazing things, make new discoveries, and change things for the better.

This guide contains information and ideas for makerspace projects that you can work on at home with minimal materials. With this guide, you can find a fun project that can be completed with common household objects, explore options for digital maker projects, learn a new skill with online tutorials and videos, and also explore ways to use your maker skills to help others during the COVID-19 pandemic.

# Chat Service





# Kits: Making the connection

**“Tell me and I may forget, teach  
me and I may remember,  
involve me and I learn.”**

—attributed to Benjamin Franklin

# Kits Available for Check Out

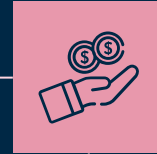
## AV Kits:

- USB Mic w/ tripod stand and pop filter
- Portable backdrop w/ stand white/black
- Backdrop panel chroma key green/blue
- HD Webcam
- Desktop Ring Light



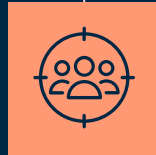
# Future Kits in Development

Sewing Kits



Arduino Kits

Audio Kits



Robotics Kits

# Augment Costs with Grants

Shows library leadership:

- Ideas have value
- You have dedication
- Library doesn't have to shoulder all costs



# Working with Faculty

- Increase traffic & usage
- Shows value to admin
- Enrich learning at your institution



# Infographics are Your Friend!

 MIAMI UNIVERSITY  
UNIVERSITY LIBRARIES

## Makerspace Fall 2019 Overview

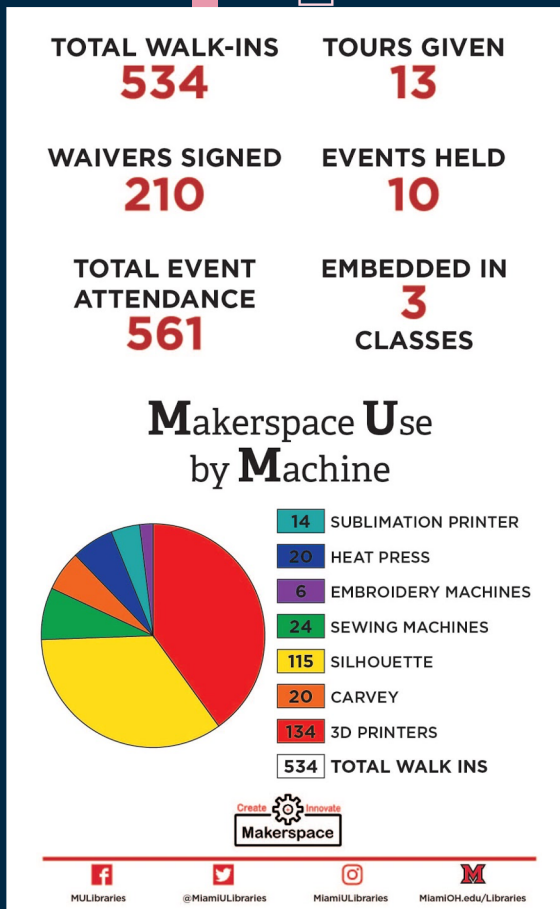
### Highlights

The C+I Makerspace opened its doors at the beginning of Fall semester, 2019.



Notable tours included **President Greg Crawford** and **Provost Jason Osborne** and honorees of 18 of the Last 9, a yearly award for outstanding young alumni.

Activity in the Makerspace was punctuated by fun and engaging events, from the *Welcome Home* event at Armstrong Student Center that brought in hundreds of first-year students, to *Creepy Crawly Crafts*, where students learned Makerspace technology through fun Halloween projects.



# Connecting to MUL and Miami Strategic Plans/Mission/Values

## OUR STRATEGIC GOALS



**Develop** talent, resources, and experiences to facilitate an inclusive community.



**Transform** the Libraries' environment and user-centered experience to anticipate evolving modes of learning and the actual resource needs of our community.



**Forge** meaningful partnerships that foster affordability, ensure relevancy, and cultivate life-long connections.

## OUR MISSION AND OUR VALUES

We proactively connect our community with the personalized guidance and resources to empower discovery, creation, and success.

### Welcoming

You matter • You belong

### Curious

Always wonder • Always learn

### Collaborative

Find connections • Forge partnerships

### Trailblazing

Boldly create • Fearlessly innovate

## How will Miami University achieve these goals?

We will honor Miami's legacy of distinguished undergraduate teaching and learning.

We will generate knowledge and scholarship to benefit the world around us.

We will create experiences that empower students to succeed.

We will transform Miami for a new era; standing still is not an option.

We will prepare tomorrow's leaders with select graduate programs.

We will welcome all to an inclusive Miami community that reflects our core values.

We will **RISE** to the moment.





# Questions?

## Contact Us!

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