# 2024



## How to design your research poster for the Massurc!

# Introduction to RESEARCH POSTERS

## MASS



#### **IS A RESEARCH POSTER? WHAT**

- Posters are a popular method of presenting research findings in a concise and visually pleasing format
- On the conference day you will stand by your poster during your presentation slot, showcasing your work to those walking by and allowing you to have a direct and engaging connection with your audience
- Posters generally consist of: concise text, tables, graphs, images, and various formats

### **GUIDELINES FOR**

- MassURC will provide 48 inches x 72 inches (four feet by six feet) poster boards and pins for display
  - Your poster can be <u>any size up to 4' x 6'.</u> It is <u>not</u> expected to be the same size as the poster board we provide!
- Every participating student must designate a **Faculty Sponsor** who will review and approve their research materials, including the abstract and poster presentation
- Students have the option to present individually or in small groups



#### Here is what the poster board provided looks like:



82"

#### **EFFECTIVE POSTER?** WHAT MAKES AN

- Ensure that crucial information is legible from 10 feet away
- Have a concise and attention-grabbing title
- Include your acknowledgments, name, and institutional affiliation
- Use a mix of text, tables, graphs, images, and other formats to summarize and convey information in a succinct and appealing way



# Designing your RESEARCH POSTER

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## **ORGANIZE** YOUR CONTENT

- Make good use of headings and subheadings; be sure to organize your content into sections such as "Data", "Results," "Key Findings", for example
- Use bullets and numbering to summarize information and methods utilized
- Arrange your content in a logical order, following the flow of your research process
- Maintain a clean and consistent layout and color scheme throughout the poster



## RECOMMENDED

- **Provide background:** Make sure you include a section that provides relevant background information that someone unfamiliar with the research field or topic might not know on their own
- **Highlight your research question:** State your research question clearly, so that others understand what exactly you want to achieve with your research
- **Describe your methodology:** Explain the methods and procedures you utilized throughout your research process in a concise and thorough manner
- **Visually convey results/takeaways:** Use tables, charts, and graphics to visually display important information to others

#### **Design Considerations:**

- Ensure a good balance of content and white space. Crowded posters can be overwhelming to look at
- Leave sufficient margins around the edges for a clean look

## COMPONENTS

# Incorperate ACCESSIBILITY

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## WHY ACCESSBILITY MATTERS:

- Your poster is a visual representation of your research, and making it accessible involves choosing design elements that are clear and easily understandable.
  - This ensures that your research reaches the widest possible audience!



### **DESIGN TIPS TO CONSIDER TO**

## **ENHANCE READABILITY:**

### **Colors:**

- Ensure sufficient contrast between the text and the background.
  - Color Contrast checking tool is linked on the MassURC Hub!
- Avoid relying solely on color to convey meaning. Instead, use patterns or shading in addition to color on charts, graphs, illustrations, and maps where color differences are intended to convey information.



### **DESIGN TIPS TO CONSIDER TO**

### Fonts:

- Recommended: **Sans-serif fonts** such as Arial, Gill Sans, Helvetica, and Verdana for body and heading text.
- Serif fonts such as Times New Roman and Garamond are recommended for headings only.





### **DESIGN TIPS TO CONSIDER TO**

### **Text size:**

- Bigger is better!
- Recommendations:



- Main title: 72 point (minimum) 158 point (ideal)
- Section headings: 42 point (minimum) 56 point (ideal)
- Body text: 24 point (minimum) 36 point (ideal)
- Captions: 18 point (minimum) 24 point (ideal)



#### VERBAL COMMUNICATION **CONSIDER YOUR**

### Why it matters:

On the day of the conference, you will be walking attendees through your research verbally. By considering accessibility, you guarantee that your spoken explanations are inclusive and contribute to a clear and coherent understanding of your work for everyone in the audience.

## **VERBAL COMMUNICATION**

### **Tips to Consider:**

- **Clarity:** Speak clearly and at a moderate pace to aid understanding for all attendees
- Inclusive Language: Use language that is inclusive and avoids jargon, making your research accessible to a diverse audience
- **Descriptions of Visuals:** to assist those with visual impairments, provide detailed descriptions verbally for any visuals you may have included



## **LAST MINUTE TIPS!**

- You will likely be explaining your work to a lot of people. Prepare a short "elevator pitch" that consists of a concise verbal summary of your research process and results so far so that you have one ready to go!
- If you want to bring extra "props" or components of your research outside of your poster, you can do so
  - You can make a request for a small table to display through the accommodations form on the MassURC Hub, but we cannot guarantee that we will be able to provide it
- If you have any friends, family, or other guests that you would like to invite to the conference, they can fill out the guest check-in form that is available on the MassURC Hub!

# **Research** Poster

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### **POSTER**

## EXAMPLES

• Follow this link to see

more examples of

#### posters



#### Characterization of Antifouling Polydopamine-based Coatings Using AFM

Robin M. Levinson<sup>†</sup>, Irene S. Kurtz<sup>†</sup>, Ashlin Sathyan<sup>‡</sup>, Stephen S. Nonnenmann<sup>§</sup>, Todd Emrick<sup>‡</sup>, and Jessica D. Schiffman<sup>†</sup> <sup>†</sup>Department of Chemical Engineering, <sup>‡</sup>Department of Polymer Science and Engineering, and <sup>§</sup>Department of Mechanical Engineering University of Massachusetts, Amherst, Massachusetts 01003, United States

- Bacterial adhesion is a common and detrimental pro anging from water purification to medical implants
- nicrobes, leading to antibiotic resistance
- intifouling surface coatings prevent the form ontributing to antibiotic-resistance
- our goal is to use atomic force microscopy (AFM) to characterize th urface topography of coatings of varied compositions of copolymers

#### Background:

- pamine: A Bioinspired Glue opamine self-polymerizes into polydopamine
- olydopamine, a biological glue, has been shown to immobilize polyme witterions to surfaces thus avoiding complex chemistries or surface

#### ymer Zwitterions are Antifouling

lymer zwitterions consist of equal amounts of anionic and cationic pieties, making them charge neutral, hydrophilic, and antifouling y(methacryloyloxyethyl phosphorylcholine) (polyMPC) is a polyme Iterion that mimics the functionality of phospholipid groups present o y cell membrane surfaces

DOIVMPC

#### SCOPY (AFM)

the cantilever moves



# Reminder: PRESENTER RESOURCES

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### MASSURC HUB

- One-stop-shop for all MassURC information!
- The Poster Tips, Color Contrast Checker, and Example Posters that we've mentioned today will live here!





We're excited for your interest in the 30th Massachusetts Undergraduate Research Conference (MassURC), where students from across Massachusetts come together to present original research in their respective field of study. If you are interested in presenting or are serving as a Faculty Sponsor, please make sure you register to create a user account.

The MassURC Hub is where you will register for the conference, submit, revise, and review abstracts. In addition, MassURC Hub will be your resource for live schedules, searching, notifications, and updates on conference day.

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#### Welcome to the MassURC Hub!

**To Register** 

## CONNECT WITH US ON OUR SOCIALS





<u>https://honorspaths.honors.umass.edu/massurc</u>



#### @MassURC

@massurc749

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#### **Still have questions?** Email the conference team