

Part 1

This website is a personal portfolio.

Ideally, it showcases my skills, abilities, and experience to give potential employers a clear and comprehensive view of my strengths and accomplishments.

Specifically, I present the following in my portfolio:

- My education — institution, degree, and field of study
- My work — what I study and explore through academic research
- My background — where I am from, my personal interests, and my hobbies
- My contact information — how visitors can connect with me and see more of what I do

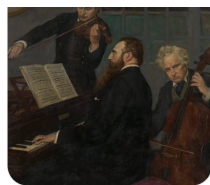
This is interesting and engaging because I try to present little “teaser” blurbs for my work, and also include interesting graphics to prompt my background.

This should be accessible to everyone, not just employers, facilitated by my aria controls as well as alt-tags for content.

Part 2

Test the screen sizes with 1200px and 390x844 (iPhone 12 Pro)

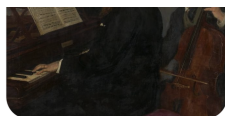
- Click around on the nav bar to go to different pages! You don't have to hit exactly on the word
- Make the window really narrow — there should appear a little dropdown, in which the research, about and contact pages are now available.
 - Thanks to jQuery and Bootstrap for making this possible
- Play around with the window size on the research page in particular! **Dynamic resizing** 😊
 - It works for everything but most obviously in this page
- **Hover** over the pictures in the about page! Little tooltips with fun facts about me pop up, and their orientation and position change depending on where on the viewport you are — they will **always appear on top of everything** and **also on screen** (not cropped, not requiring scrolling).
 - Thanks to Popper



Growing up, I played piano and viola, and my favourite pieces include Tchaikovsky's piano trio in a minor and Brahms' Sonata No. 2 in E-flat Major, Op. 120.



- It'll show up on top of other content (in this case, the Monet painting)



Other interests include French Impressionism (like Monet's The Artist's Garden) and Japanese literature (like Yanagihara Haru's A Little Life).



- Depending on where you are in the window, the popper might show up in different places (flipping as needed and moving) so that it will always prevent overflowing. The arrow will always point to the reference.

- Hyperlinks enabled on the contact page

Part 3

- jQuery and Bootstrap

Why: I don't want the nav bar to crowd out other content when I have a really thin window.

How: I have a little button with a lot of aria tags and data-target/data-toggle tags that allow for collapsing and toggling.

What does it add: This allows for all of the nav bar links to still be usable and accessible even in a thinner window, without needing a really annoyingly big nav bar.

- Popper

Why: Flipping cards is lame, but I still wanted the information to be hidden by default

How: I have a little tooltip thing that pops up on hover and is hidden by default. It changes position depending on where the referenced item is.

What does it add: Interactive feature and reducing information overload

- Glassmorphism

Why: Bring out the blurbs on my research page

How: Adding css to the divs that contain my main questions

What does it add: Hierarchy to the page, adding structure to my webpage and helps displace the grid layout for a more fun presentation

Part 4 (8 sentences exactly)

Originally, I had a very text-dense set of pages, which were not particularly digestible, and my original idea of having them continuously scroll to one another (using Scrollmagic) was not feasible because there was not enough content to suggest a scrolling action in the first place.

The original prototypes also relied heavily on having a 16x9 screen size which is not effective — what if I have a longer screen, for example?

Also, with the research page, displacing the grid is fun but its not necessarily easy to **manage different screen sizes with a displaced grid (although I figured it out)**.

In addition, I originally wanted flipping cards for the about page; this could have easily been done with CSS (therefore too easy for this project), and it is also not very in trend. The other idea I had at the time was to make something pop out, but for this to be effective, I would need a lot more content, e.g. links to recordings, further explanations, etc. Hence, I researched using a popper, which also does not require as much affordances (one would automatically move around and see what the pictures offer)

In terms of information hierarchy, I also tried to condense as much as possible so a viewer is not overloaded — this also plays to the effectiveness of the popper.

Because of these comments and also a more high-level thought — having a very pleasing design is useless if no one knows how to navigate it — I went for a more simple but predictable page, with a nav bar that has clear buttons and is easy to understand, especially when the page size changes (the links go into a dropdown with a clear button, for example).

Part 5

I originally wanted to play with template extending — I did not enjoy having to copy and paste all of the code across pages when they were all the same, especially because I would make changes on one page but forget to update the others.

This worked in Flask (thanks `render_template`) but I don't know how to run Flask on Github (only from terminal with `flask run`), nor could I figure out Django or Dust — but it's ok; this is not essential!

When building the website, I also had issues with currying — when implementing my JS to set up Popper, I realise that I could have made the code much sleeker by not having to redefine `show()` for each card — but similarly, I easily worked around this (this was not the only way to make the code work).

After giving up on template extensions and currying (which aren't necessary but would have made this project so much cooler), I learned a lot about aria-controls, which help with accessibility, and also spent a lot of time on the Popper website, learning about the documentation and how to make popper work for my website; a good next step would be to integrate Popper with React etc. to make a more complex user interface.

WAVE: index.html

WAVE

web accessibility evaluation tool

powered by WebAIM

Address: <https://jonathanho168.github.io/fal2022-pulpor>

Styles: OFF ON

Summary

Summary Details Reference Order Structure Contrast

0 Errors

0 Contrast Errors

0 Alerts

2 Features

5 Structural Elements

3 ARIA

View details

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

hi, i

carnegie mell

b.s. informati

Details

Summary Details Reference Order Structure Contrast

2 Features

1 X Linked image with alternative text

1 X Language

5 Structural Elements

1 X Heading level 1

1 X Unordered list

1 X Navigation

1 X Main content

1 X Footer

3 ARIA

1 X ARIA

1 X ARIA label

1 X ARIA expanded

If an icon does not appear within the page, turn off Styles above to view it.

hi, i

carnegie mell

b.s. informati

WAVE: research.html

Address: <https://jonathanho168.github.io/fall2022-pui/por>

Styles: OFF ON

Details

Summary Details Reference Order Structure Contrast

2 Features

1 X Linked image with alternative text

1 X Language

5 Structural Elements

1 X Heading level 1

1 X Unordered list

1 X Navigation

1 X Main content

1 X Footer

3 ARIA

1 X ARIA

1 X ARIA label

1 X ARIA expanded

If an icon does not appear within the page, turn off Styles above to view it.

Summary

Summary Details Reference Order Structure Contrast

0 Errors

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3 ARIA

View details >

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

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WAVE: about.html

The image shows a screenshot of the WAVE web accessibility evaluation tool interface. The browser address bar displays the URL: `https://jonathanho168.github.io/fall2022-pui/por`. The tool's status is "Styles: OFF" and "ON" (indicated by a toggle switch).

Summary Panel:

- Errors: 0
- Contrast Errors: 0
- Alerts: 0
- Features: 5
- Structural Elements: 5
- ARIA: 7

A button labeled "View details" is present. Below the summary, a message states: "Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility."

Details Panel:

- 5 Features:**
 - 3 X Alternative text
 - 1 X Linked image with alternative text
 - 1 X Language
- 5 Structural Elements:**
 - 1 X Heading level 1
 - 1 X Unordered list
 - 1 X Navigation
 - 1 X Main content
 - 1 X Footer
- 7 ARIA:**
 - 4 X ARIA
 - 1 X ARIA label
 - 1 X ARIA description
 - 1 X ARIA expanded

A note at the bottom of the details panel states: "If an icon does not appear within the page, turn off Styles above to view it."

WAVE: contact.html

Styles: OFF ON

Summary

0Errors

0Alerts

5Structural Elements

3Contrast Errors

2Features

3ARIA

View details

Styles: OFF ON

Details

3 Contrast Errors

3 X Very low contrast

2 Features

1 X Linked image with alternative text

1 X Language

5 Structural Elements

1 X Heading level 1

1 X Unordered list

1 X Navigation

1 X Main content

1 X Footer

3 ARIA

1 X ARIA

1 X ARIA label

1 X ARIA expanded

If an icon does not appear within the page, turn off Styles above to view it.

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