Computer Programming Fundamentals

CS 152
Professor: Leah Buechley
TAs: Melody Horn, Noah Garcia, Andrew Geyko, Juan Ormaza
Time: MWF 10:00-10:50am
https://handandmachine.cs.unm.edu/classes/CS152_Fall2021/

ABOUT ME

Leah Buechley
buechley@unm.edu
https://handandmachine.cs.unm.edu

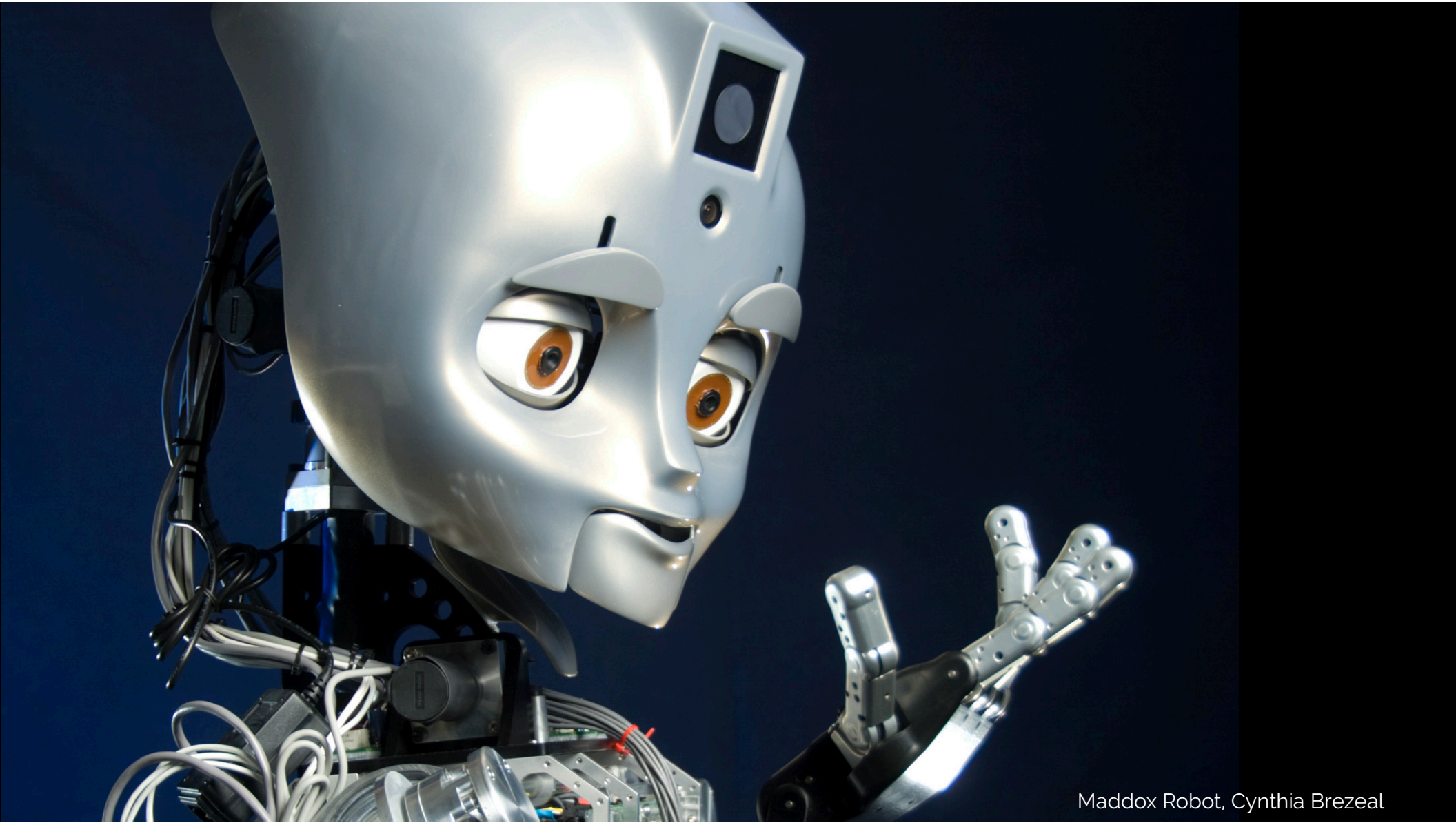
TAS

007	Tuesday 12:30-1:50pm	Melody Horn
006	Wednesday 12-1:20pm	Noah Garcia
001	Thursday 2-3:15pm	Andrew Geyko
005	Friday 12-1:20pm	Juan Ormaza

what is this class about?

PROGRAMMING

COMPUTING



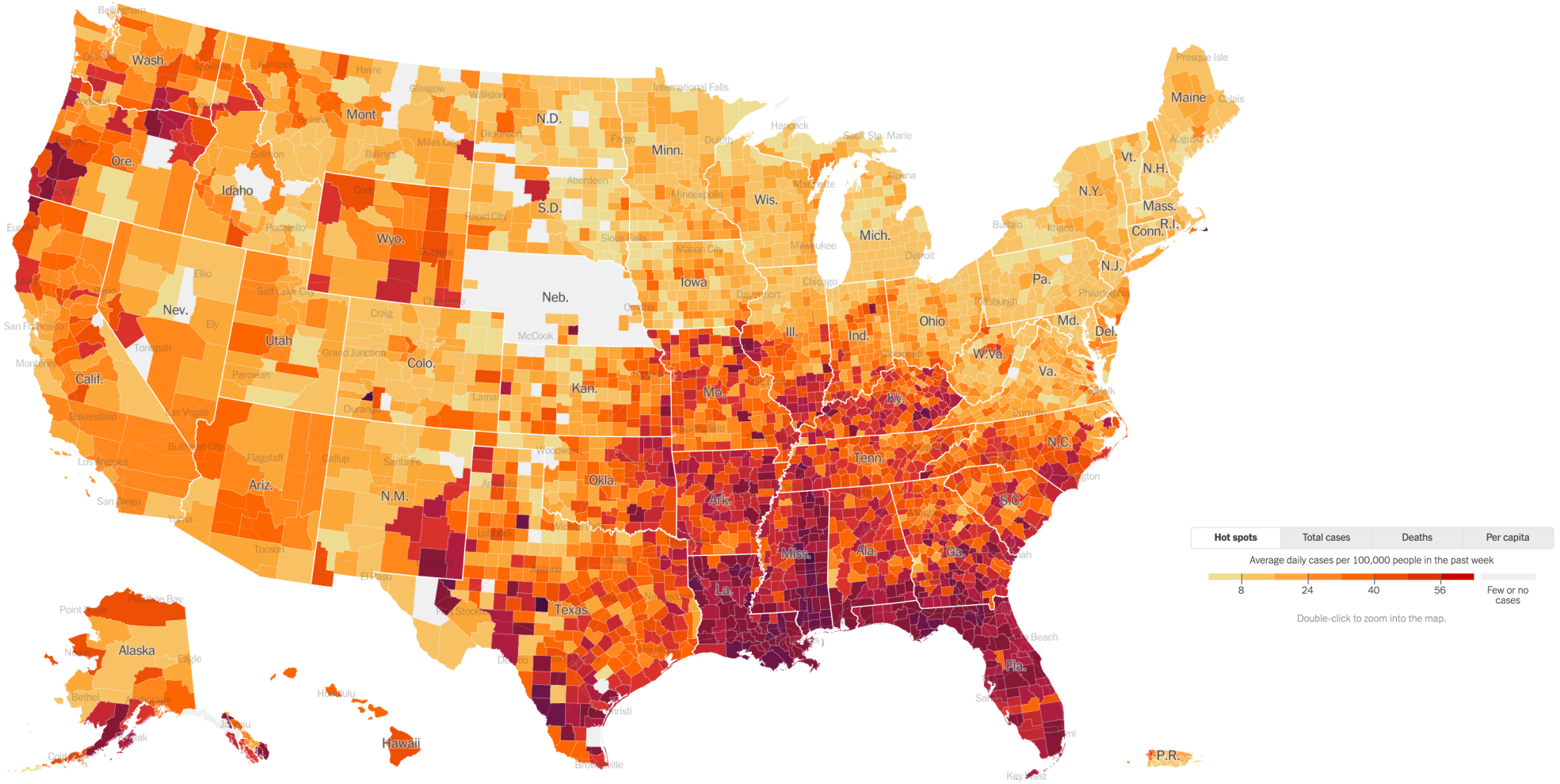
Maddox Robot, Cynthia Brezeal

THE LEGEND OF
ZELDA™
BREATH OF THE WILD

Moana, Disney

Robotic Prosthetics, Hugh Herr

Coronavirus in the U.S.: Latest Map and Case Count



August 16, 2021

How They Took the First Picture of a Black Hole

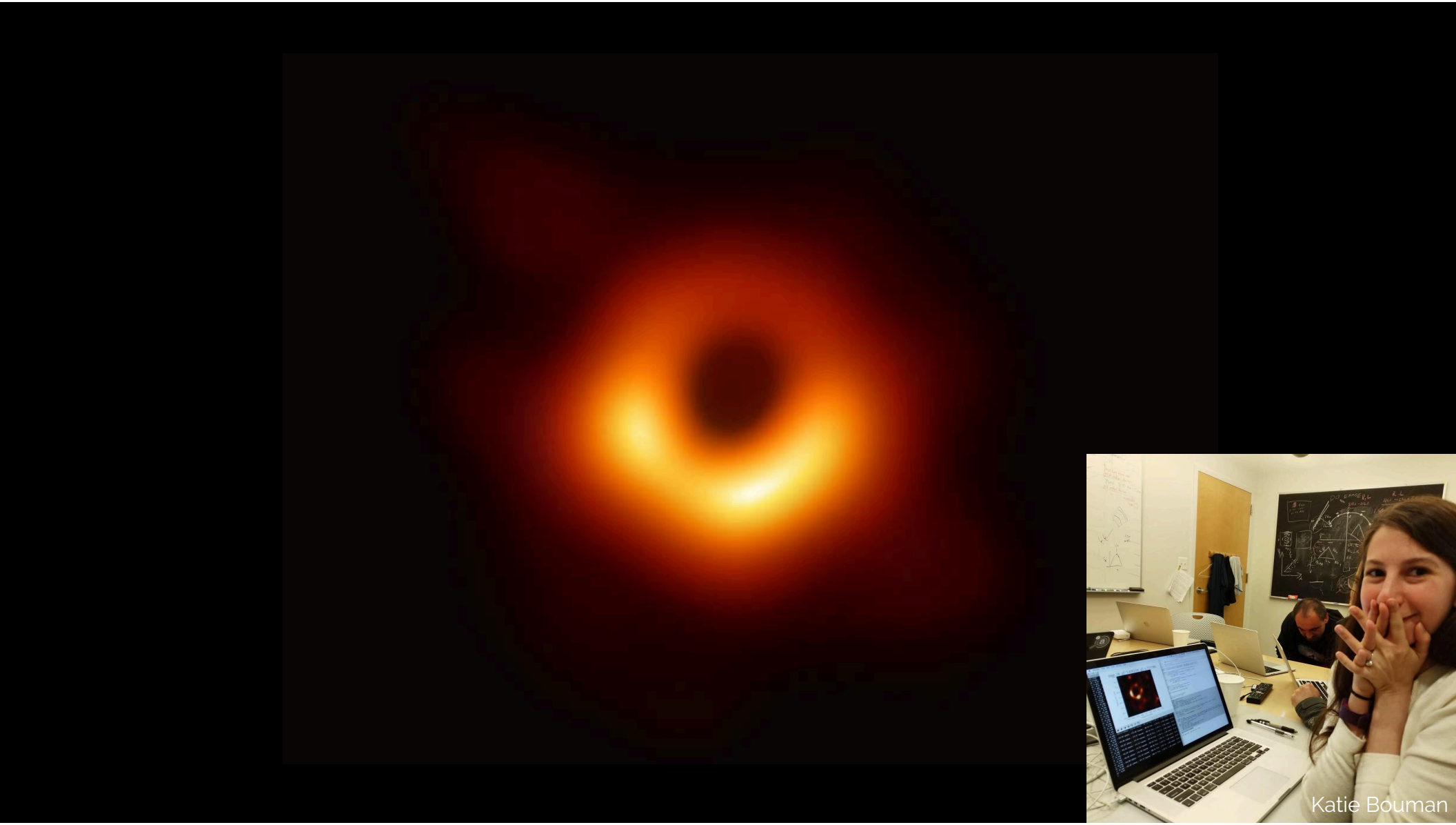
By JONATHAN CORUM. APRIL 10, 2019

A planet-sized network of radio telescopes has assembled the first image of a supermassive black hole.

The dark heart of the Milky Way

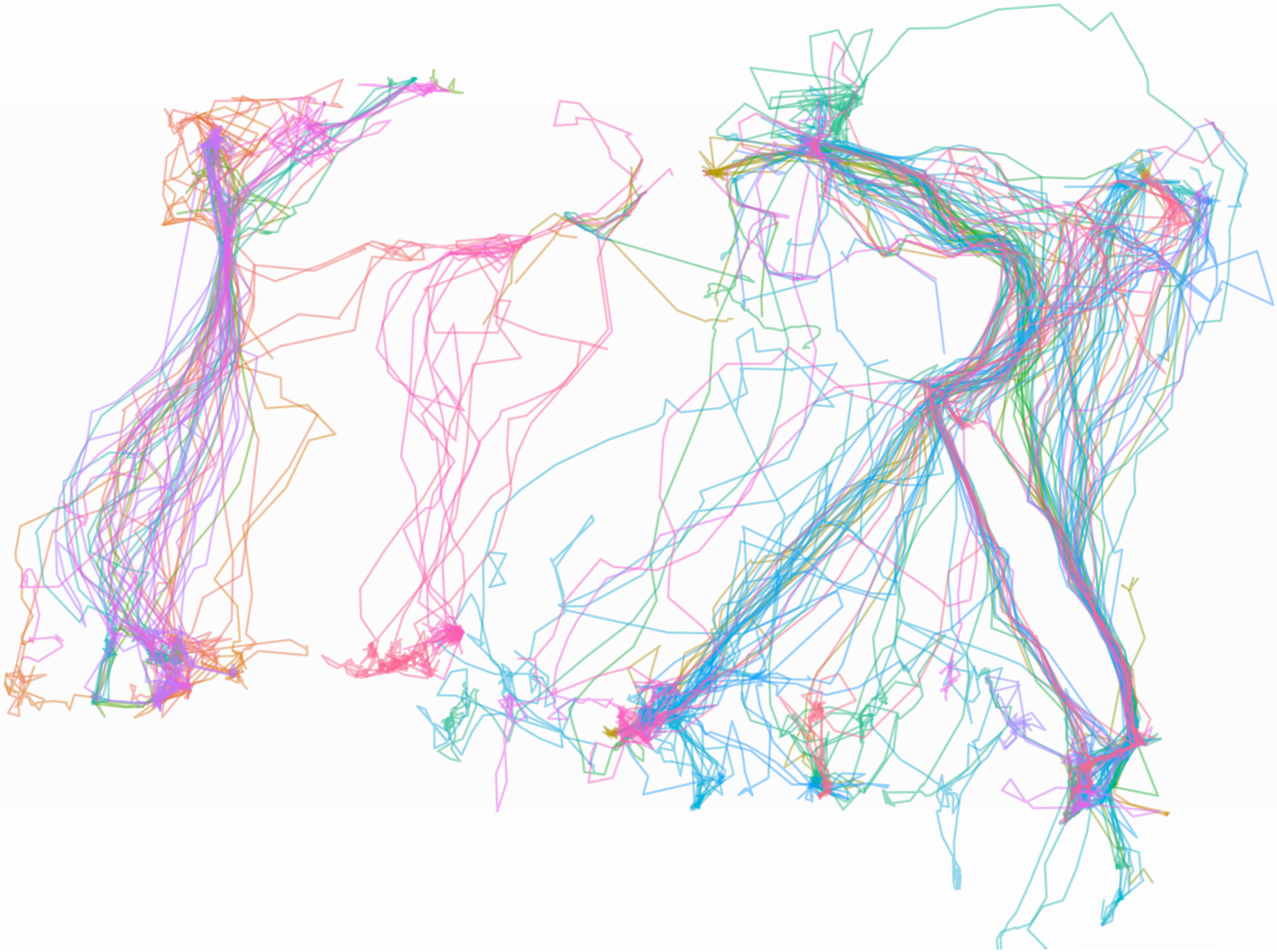
At the center of our galaxy lies Sagittarius A*, a black hole as massive as four million suns:

Sagittarius A*



Katie Bouman

Evan Buechley



Evan Buechley

Jeanne Gang

Iris van Herpen

COMPUTING

CLASS NUTS AND BOLTS

WEBSITE

https://handandmachine.cs.unm.edu/classes/CS152_Fall2021

Syllabus

Schedule
with class slides, assignments, etc.

Policies

Links to other material

UNM LEARN

https://learn.unm.edu

Submit assignments

Receive feedback

Links to other material

PIAZZA

Class discussion board:
https://piazza.com/unm/fall2021/cs152/home

Ask questions here

Anonymously!

Have discussions, help other students, share information

PIAZZA

First assignment, part 1: introduce yourself on Piazza
Name, year, fun fact about yourself +
anything else you'd like to mention

Due: 9:30am Wednesday 8/25

JAVA and IntelliJ

Java: The programming language we're using

IntelliJ: The programming environment we're using
There are other programming environments we could be using with Java.

JAVA and IntelliJ

First assignment, part 2: Download and install IntelliJ
Make sure you can run it on your computer.

Due: 9:30am Wednesday 8/25

Bring your laptop with IntelliJ installed
to class on Wednesday

LAPTOP

- You will need a laptop
- NOT a Chromebook
- Bring to every class and lab meeting
- They’re not too expensive ~$250

BEST BUY

Credit Cards

Search Best Buy

Products Brands Deals Services

ASUS

ASUS - 14.0" Laptop - Intel Celeron N4020 - 4GB Memory - 64GB eMMC - Star Black - Star Black

Model: E410MA-211.TBSB **SKU:** 6449519

4.3 (223 Reviews) | 118 Answered Questions

Price Match Guarantee

$219.99

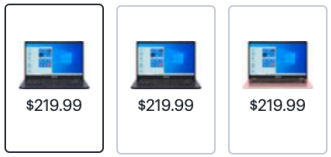
15-DAY FREE & EASY RETURNS

If received today, the last day to return this item would be Sep 6. Learn more >

Free 3-month security software A $14.99 value

Open-Box: from $190.99

Color: Star Black



Protect your computer

(6,201)

Most popular protection plan for your product

- 1-Year Accidental Geek Squad Protection — **$49.99** About $4.17/mo.
- 2-Year Accidental Geek Squad Protection — **$64.99** About $2.71/mo.
- 3-Year Accidental Geek Squad Protection — **$79.99** About $2.22/mo.

Learn more

IF YOU DON'T HAVE A LAPTOP

- UNM loaner laptops are available
- Email me ASAP
- Go to:
  http://at.unm.edu/coronavirus/student-tech-access.html

IF YOU DON'T HAVE A LAPTOP

- Use replit.com for programming exercises
- Web-based programming tool
- https://replit.com/

questions?

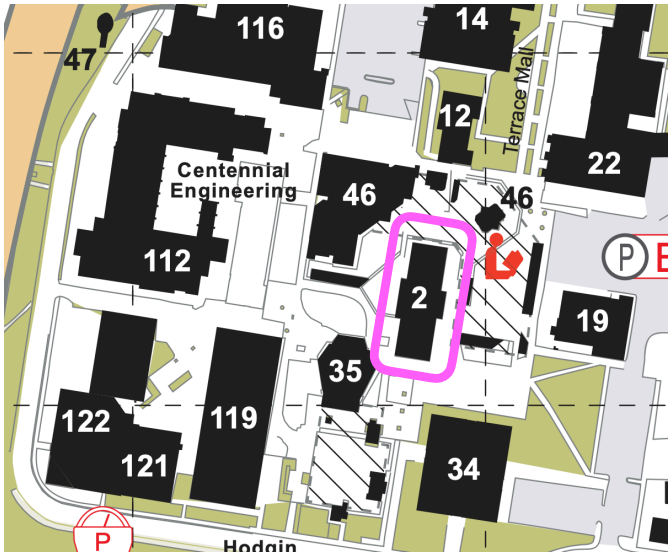
STUDENT DROP IN HOURS
AKA OFFICE HOURS

Leah Buechley
buechley@unm.edu
office: Farris room 2130
lab: Farris room W102

Student Drop In Hours: M & W after class until 11:45am
and, by appointment. Email me!

WHERE IS LAB?

Computer Science and Engineering Pod
Dark brown building near Electrical and Computer Engineering
Building #2 on Campus map



ASSIGNMENTS & GRADING

60% assignments and quizzes
20% exams
20% class participation

Submitted and graded in UNM Learn

ASSIGNMENTS & GRADING

- Assignments
  - due approximately every other week
  - posted on website schedule
  - submitted through UNM Learn
- Quizzes
  - announced and given during lecture
  - no make up quizzes
- Exams
  - midterm and final, weighted equally
- Participation
  - attendance in lab and lecture
  - lab assignments
  - participation in lab, lecture, and piazza

LATE DAYS

- 10 extension days for the semester
- Use them however you want
- Only for assignments (not quizzes)
- No more than 3 days per assignment
- Weekends count as days

CLASS SCHEDULE

UNM Drop Deadline: Friday September 10th
Deadline to drop a class without paying tuition
or receiving a W on your transcript.

If you have not turned in any assignments by then,
you will be dropped from the class.

Three assignments are due before 9/10.

COVID-19 INSANITY

Things are weird and hard and kind of crappy.

I’m sorry!

& also, it’s an adventure.

Give everyone some slack.
Be kind.

MASKING POLICY

You have to wear a mask at all times.

I am required to ask you to leave if you are not wearing a mask.

I am required to wear a mask while teaching.
I am fully vaccinated.

COVID-19 (or LIFE) INSANITY

Don’t disappear!

WORKING TOGETHER

- CS is a collaborative discipline
- Help each other learn
- Talk to and work with classmates
- You are each others best resource
- Use Piazza
- Use the internet & example code (wisely)
- This is what professional programmers do

WORKING TOGETHER

- You need to write your own code for each assignment
- You need to be able to understand and clearly describe what each line of code in your program is doing

CHEATING

- Copying code from the internet
- Copying code from someone else
- Having someone write code for you
- Writing code for someone else
- Plagiarism
- If you want to use code someone else wrote (ie: a library) ask me if it's appropriate and make sure you cite it clearly

DON’T DO IT!

questions?

COMPUTER SCIENCE IS HARD

- Get help if you're confused or stuck! You can learn this and we are here to help you
- Come to student drop in (AKA office) hours!
- Reach out to classmates.
- Use Piazza
- Use extension days wisely
- Range of previous experience
- "Instagram" effect in CS (everyone wants to look smart). Not reality
- Everyone needs help, everyone struggles

OTHER STUFF

- CS advisement
- Accessibility: https://arc.unm.edu
- Title IX

FIRST ASSIGNMENTS

- Links and more details on class website and UNM Learn Assignment page
- Due Wednesday 8/25 before class:
  1. Install IntelliJ, Community version
  2. Write an introduction in Piazza

ASSIGNMENT 1

- Due Monday 8/30 by 9:30am
- Essay: What Excites you about Computing?
- Include an example of a person or project that you find inspiring.
- Submit via UNM Learn

questions?

WELCOME!

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