

# Welcome to EPI 525!

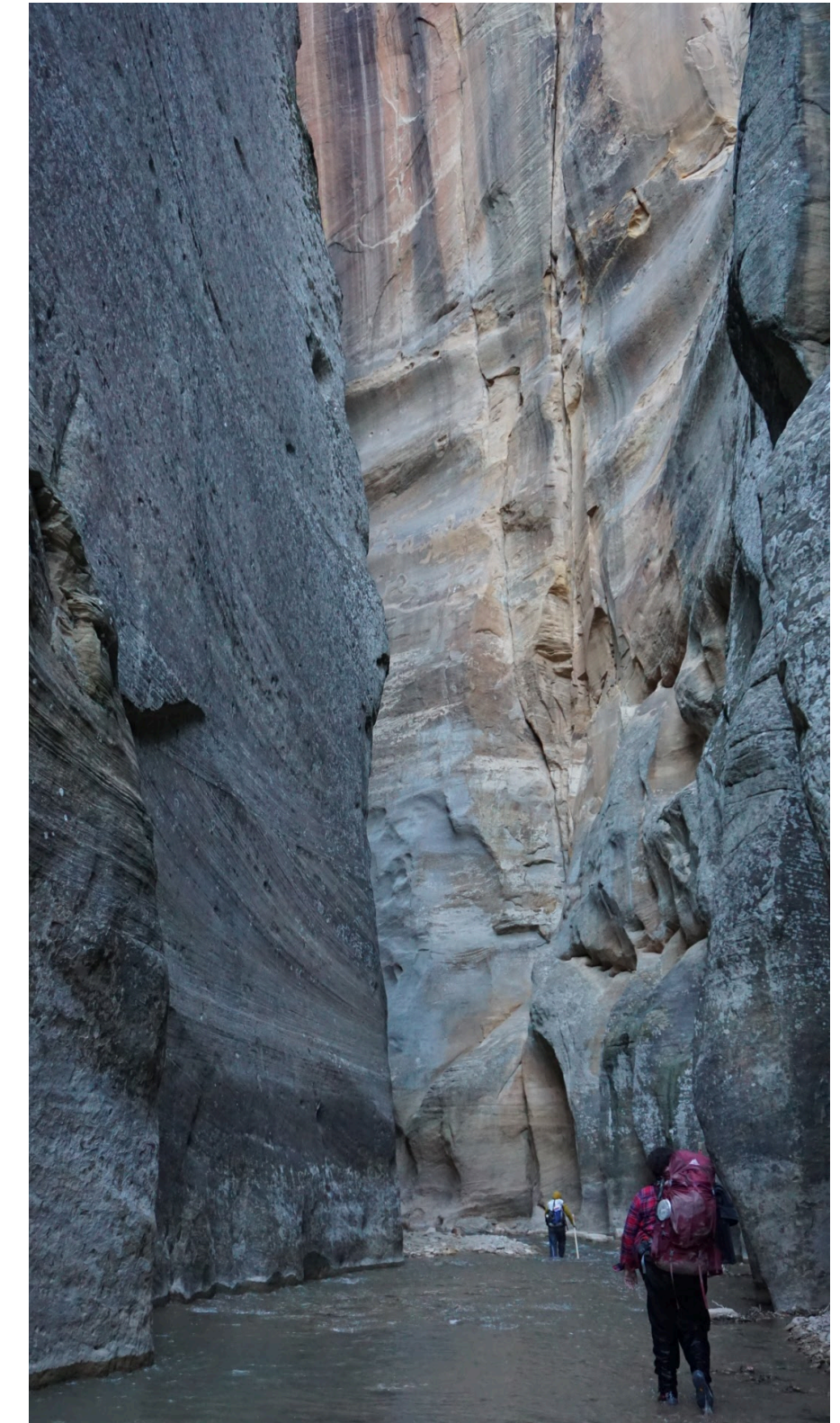
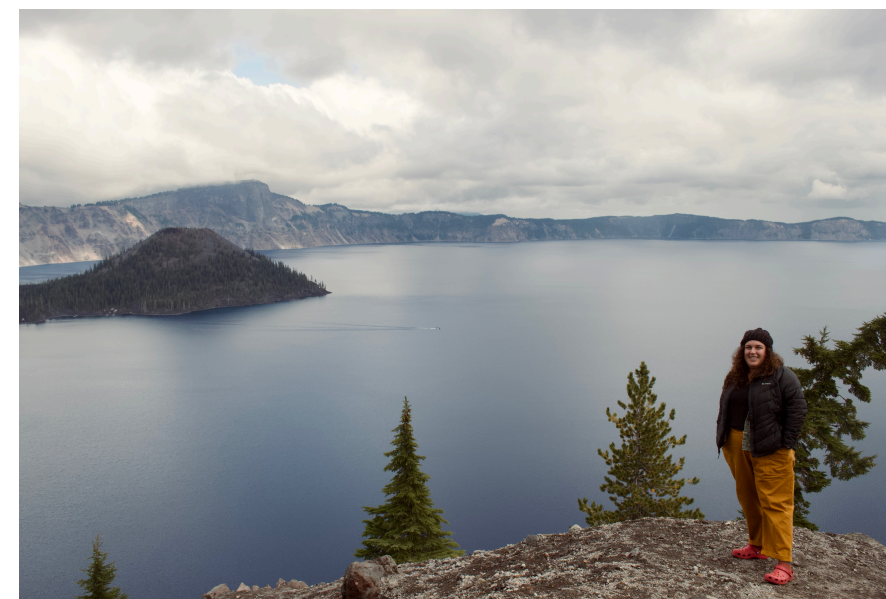
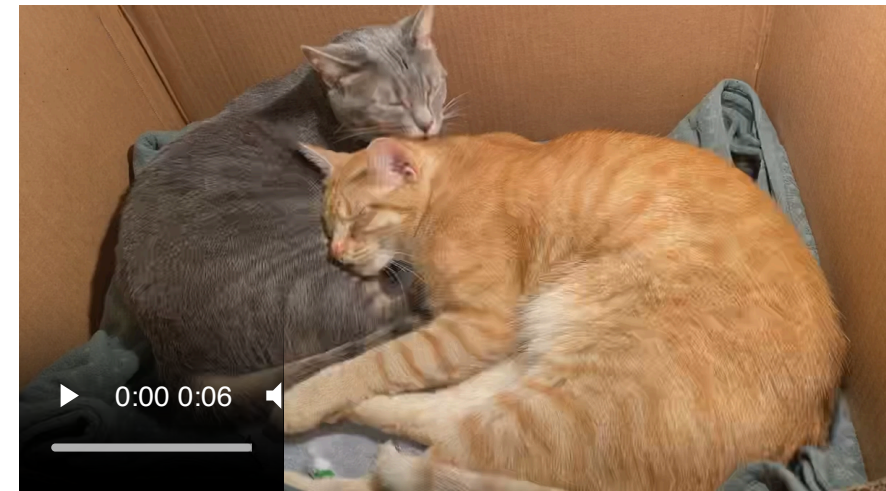
Nicky Wakim

2024-09-30



# Nicky Wakim (she/her)

- Call me “Nicky,” “Dr. W,” “Professor Wakim,” or any combo!
- Assistant Professor of Biostatistics
- Grew up in DC area (Virginia side!)
- Moved here from Michigan around 2 years ago
- Two sweet kitties
- Volleyball, pickleball, ceramics, strolling around my neighborhood
- But also sleeping, TV, and reading
- Proud plant mamma
- *A few other things about myself that I will share non-publicly*





## Important Note

**This is my first time teaching the course.** I will work hard to answer your questions in class, but I will often need some time outside of class to make sure I give you the best answer possible! Also, many of the examples are not my own. I will work to improve examples, but if you have feedback or suggestions, I am happy to hear them!

# Some important tasks


- Join the Slack page!
- Star the class website: [https://nwakim.github.io/F24\\_EPI\\_525/](https://nwakim.github.io/F24_EPI_525/)
- Complete the **WhenIsGood** for office hours
- Complete Homework 0 by this Thursday at 11pm!
  - Includes some items above
  - Think about what day of the week you would like your homeworks due
- Highly suggest that you make an appointment with a learning specialist through **Student Academic Success Center**!



# Let's visit the website: Homepage

Biostatistics 1

SCHEDULESYLLABUSINSTRUCTORSHOMEWORK



## EPI 525: Biostatistics 1


### Fall 2024


Welcome to EPI 525! This course covers a broad range of basic statistical methods used in the health sciences. We will start with a review of descriptive statistics and introductory probability, then explore probability and sampling distributions, central limit theorem, and confidence intervals. These topics will be followed by basic hypothesis testing framework, along with the appropriate power and sample size considerations. We will also cover large-sample hypothesis tests for means, proportions and variances, and some exact tests. Students will be introduced to one-way analysis of variance (ANOVA), correlation and simple linear regression in preparation for BSTA 512/612. Most homework assignments are to be completed using R.


OneDrive Folder

Echo360 page


#### Instructor


 [Dr. Nicky Wakim](#)


 Vanport 622A


 [wakim@ohsu.edu](mailto:wakim@ohsu.edu)

#### Office Hours


 [OH with Nicky](#)


 TBD


 [OH with TA](#)


 TBD

#### Course details

 Mondays, Wednesdays


 Sept 30 - Dec ?

 1:00 PM - 2:50 PM

 In-person, VPT 515

#### Contacting me

E-mail or Slack is the best way to get in contact with me. I will try to respond to all course-related e-mails within 24 hours Monday-Friday.

 [View the source on GitHub](#)


# Let's visit the website: Syllabus

- Course learning objectives
- Textbook in shared folder!
- R: we will start to learn this programming language
- Assessments and grade breakdowns
- Homework: 3 parts + grading
- Feedback: in the form of exit tickets, group evals, midterm feedback, and final course
- How to succeed in this course: resources and assignments explained
- Late work policy / Attendance policy
- ChatGPT and other AI technology
- Course expectations: a few ways that I will show you respect and commitment to you as students
  - And a few ways I expect from you!
- Communicating with me: give me 24 hours to reply M-F
  - Online communication is not my strength!



# Let's visit the website: Schedule (1/2)

- Weeks, class info, exams, homeworks




Biostatistics 1

SCHEDULE

SYLLABUS

INSTRUCTORS

HOMEWORK










Schedule

MODIFIED

September 24, 2024

Week	Date	Lesson	Topic	TB sections	Key Info	Slides QMD	Slides PDF	Slides Notes	Recording	Muddy Points
1	9/30	0	Welcome							
		1	Data collection	1.3						
		R01	Download R and RStudio							
	10/2	2	Intro to Data, Summarizing numerical data	1.1-1.2, 1.4						
	10/3	HW 0 due @ 11 pm								
2	10/7	3	Defining Probability	2.1						
		R02	R Basics							
			Getting help when coding (functions, AI, etc)							
	10/9	4	Conditional Probability	2.2						

# Let's visit the website: Schedule (2/2)

	Key Info	I will post announcements and other important class related info here. For example, if I change a due date or discuss a common mistake in homework, I will put it here.
	Slides QMD	These are the basic slides that will open in your browser.
	Slides PDF	These are the slides in pdf form for easy note taking. I'm not always the best at posting these before class, so make sure you know how to save your own copy of pdf slides!
	Slides Notes	These are the annotated slides in pdf form. In class, I add my own notes to slides. After class, I will post them here.
	Exit tix	These are links to that day's exit ticket.
	Recording	I record our classes. This will be a link to the OneDrive folder containing this recording.
	Muddy Points	You will have a chance to ask questions about class in your exit tickets. If I notice a trend in confusion, I will add explanations to these "Muddy Points"



# Let's visit the website: Search

# Let's visit the website: Homework!



# Decision on Homework due dates

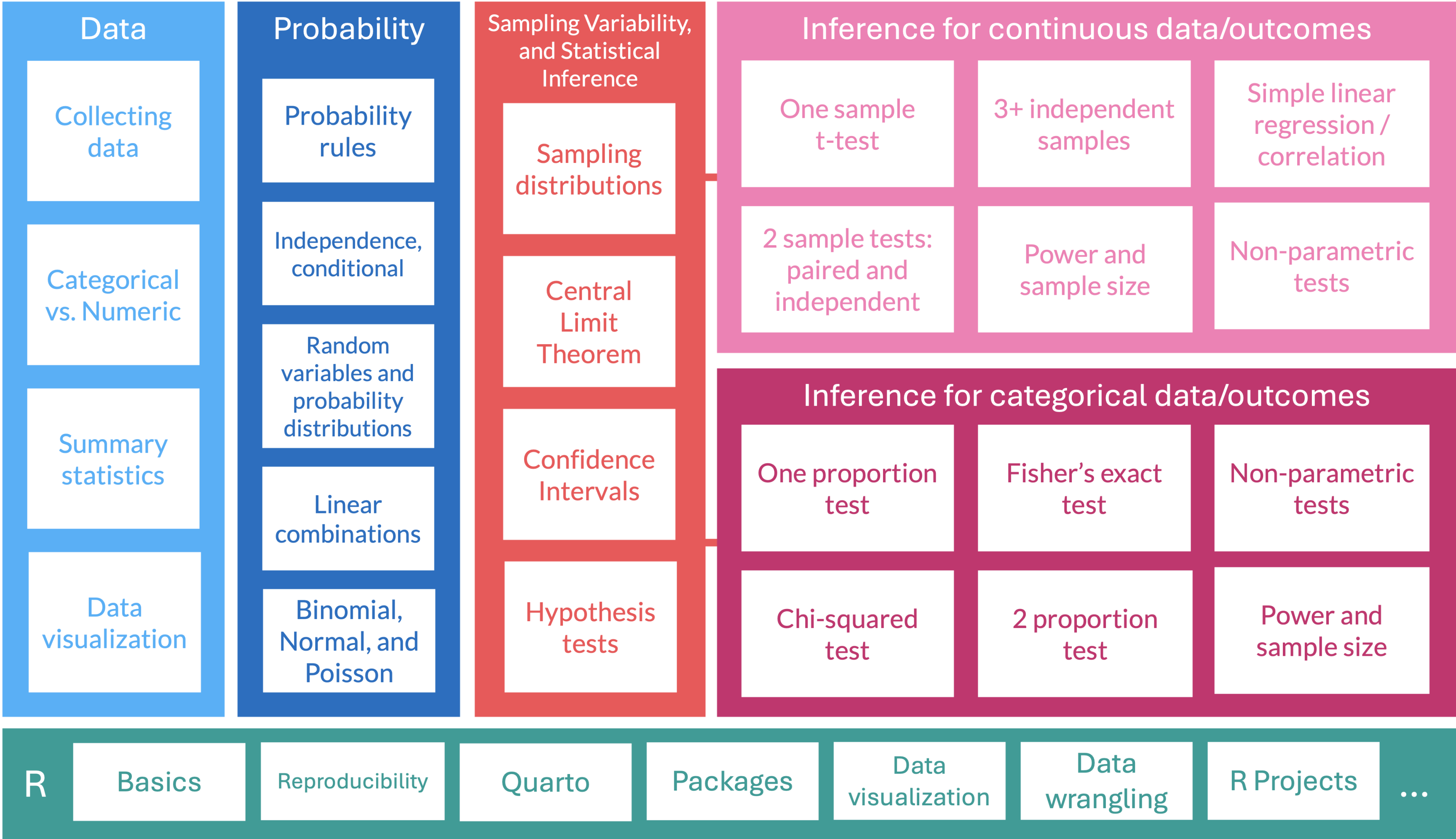
- I have some set due dates in the schedule
- Please look at your other classes, your calendar, etc
- Consider what day of the week you would like to turn in your assignment, solutions, and video/meeting
- Question in HW 0 to cast your vote and share your opinion
- We have homework every week
  - Homework 8 is due on 11/26 (Wednesday before Thanksgiving break)
  - You will have the option of turning it in with Homework 9

# Structure for this course

- Learning the basic tools to understand statistics
- It is going to feel useless at times, but I swear it is not!
- This class will help you build a toolbox that allows to analyze data while understanding the inner theory at play



# What we will cover



# Let me know if you have questions

Or if there's any contradicting information in the course site... I'm sure I made a mistake somewhere!!

