

The Impostor's Guide to Public Speaking



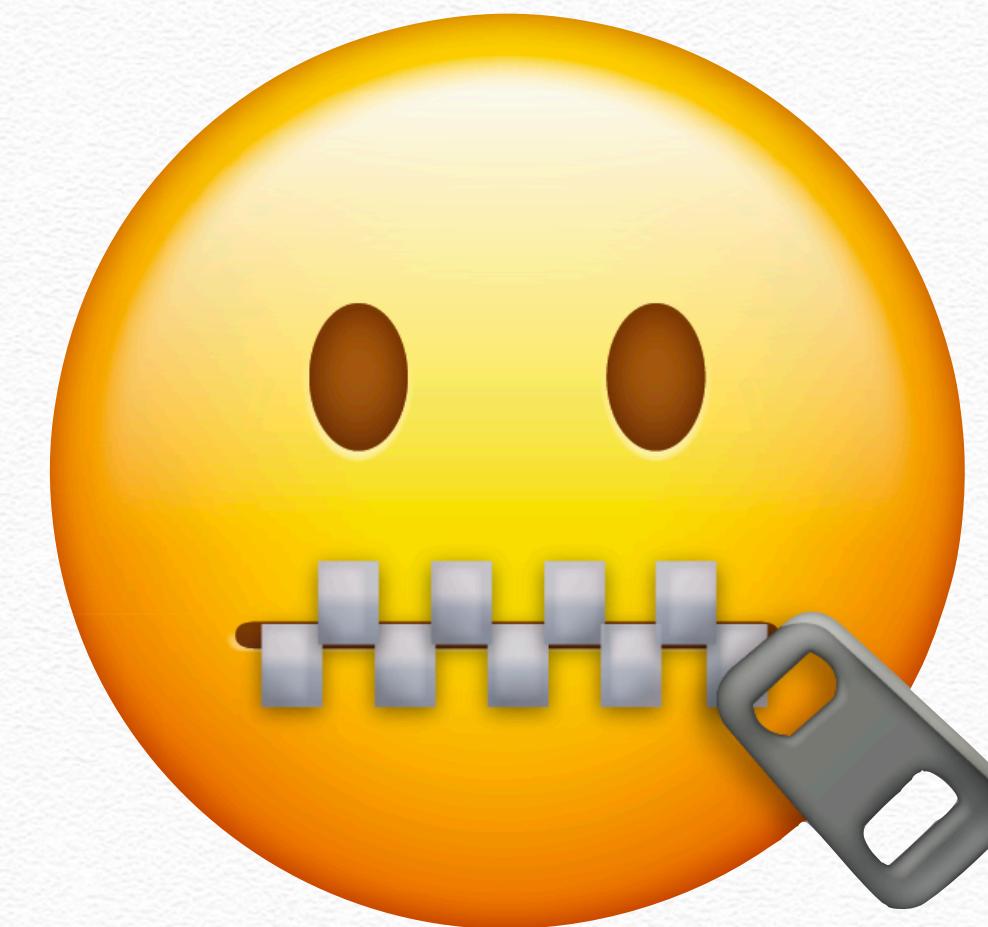
2020 Research Boot Camp

Kuan Wang

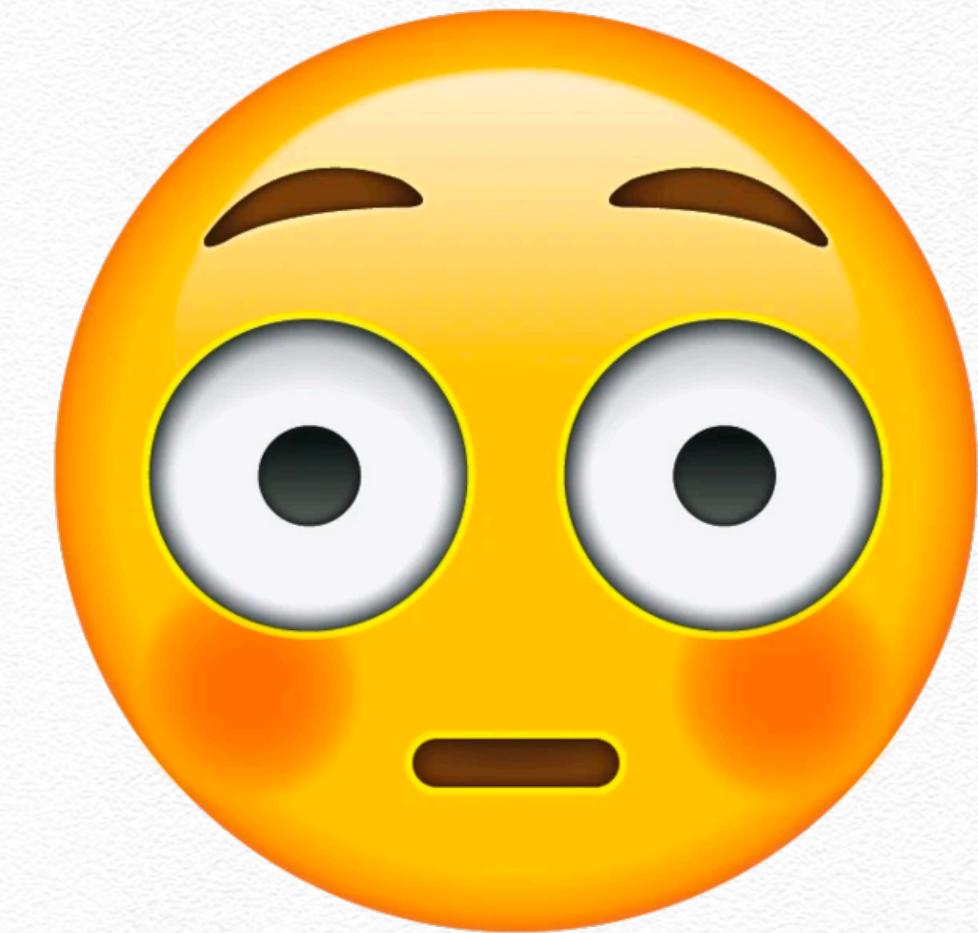
It can be hard...



I don't know enough...



I don't speak English that well...



I'm shy and nervous...

... but don't panic!

Be calm / pretend to be calm

- Slow down
- Speak with a clear voice
- Relax your neck and shoulders



A few things to know:

- You are not the most ignorant person in the room
- Astro people are nice people
- Everyone has a different style
- You can improve through practice
- Do it well once to build confidence

Be ready.

Know your stuff

- Know the big picture and details, as well as what should go into the talk

Make slides early

- Make sure the structure is reasonable

Ask for advice

- Things that are obvious to you might be confusing for others

Rehearse at least once

- Plan what you are going to say with each slide

What does a good talk look like?

- A story
- An ad
- Questions and answers

What does a good talk **not** look like?

- A lab report
- A paper
- A discussion with your advisor

Make things easy for the audience!
— A game of attention

Starting the talk



OR



General Structure

- Make it clear where your work starts
- Ask questions and answer them
- Connect different parts with logic
- A short summary every few steps
- Clear conclusions at the end

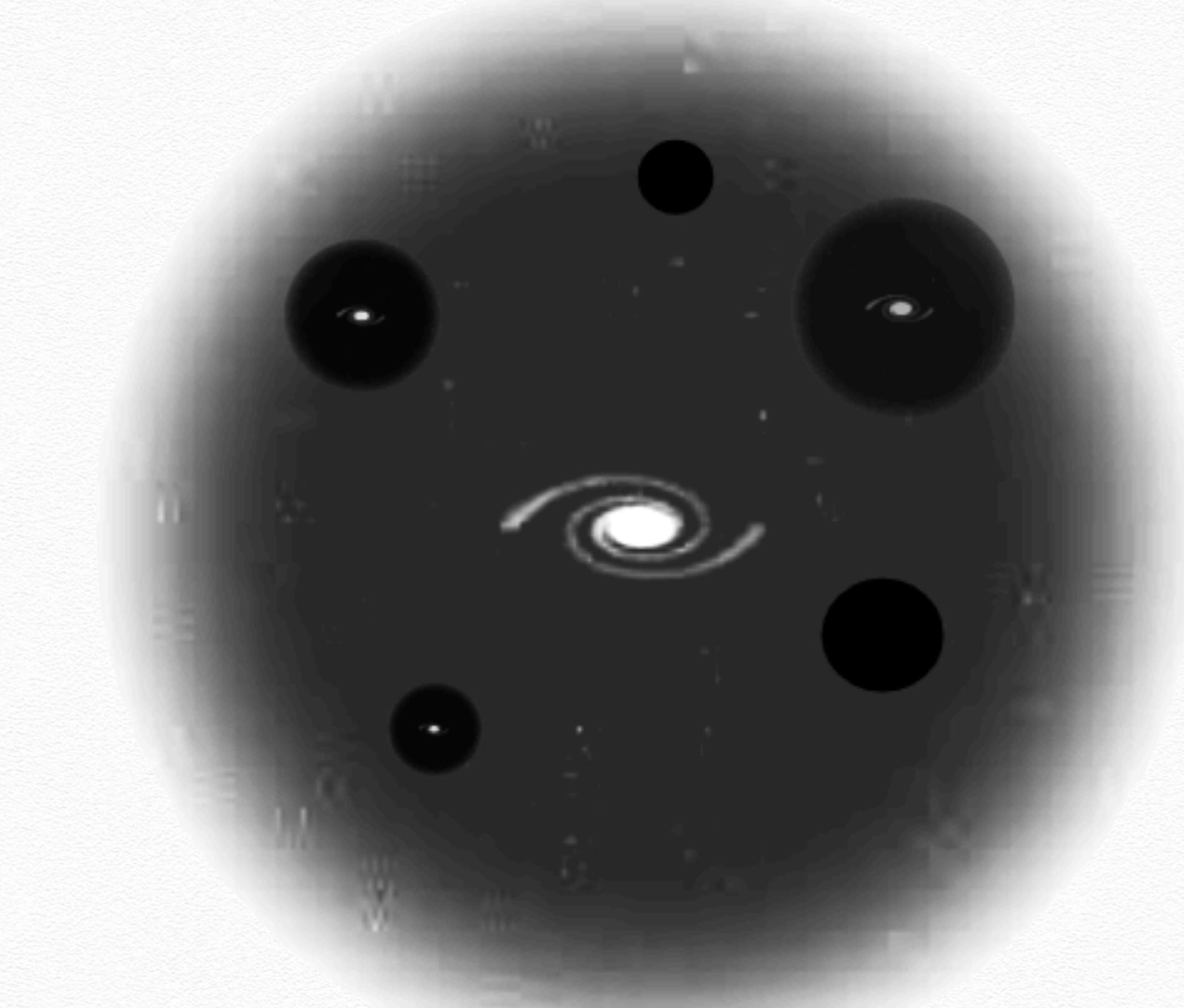


Slide Layout — one bite at time

- A clear title
- NOT too many words
- No more than two figures
- Remake figures if necessary to highlight point

Dark Matter Halos

- Density peaks in the field
- Basic units for understanding LSS
- Contain substructures

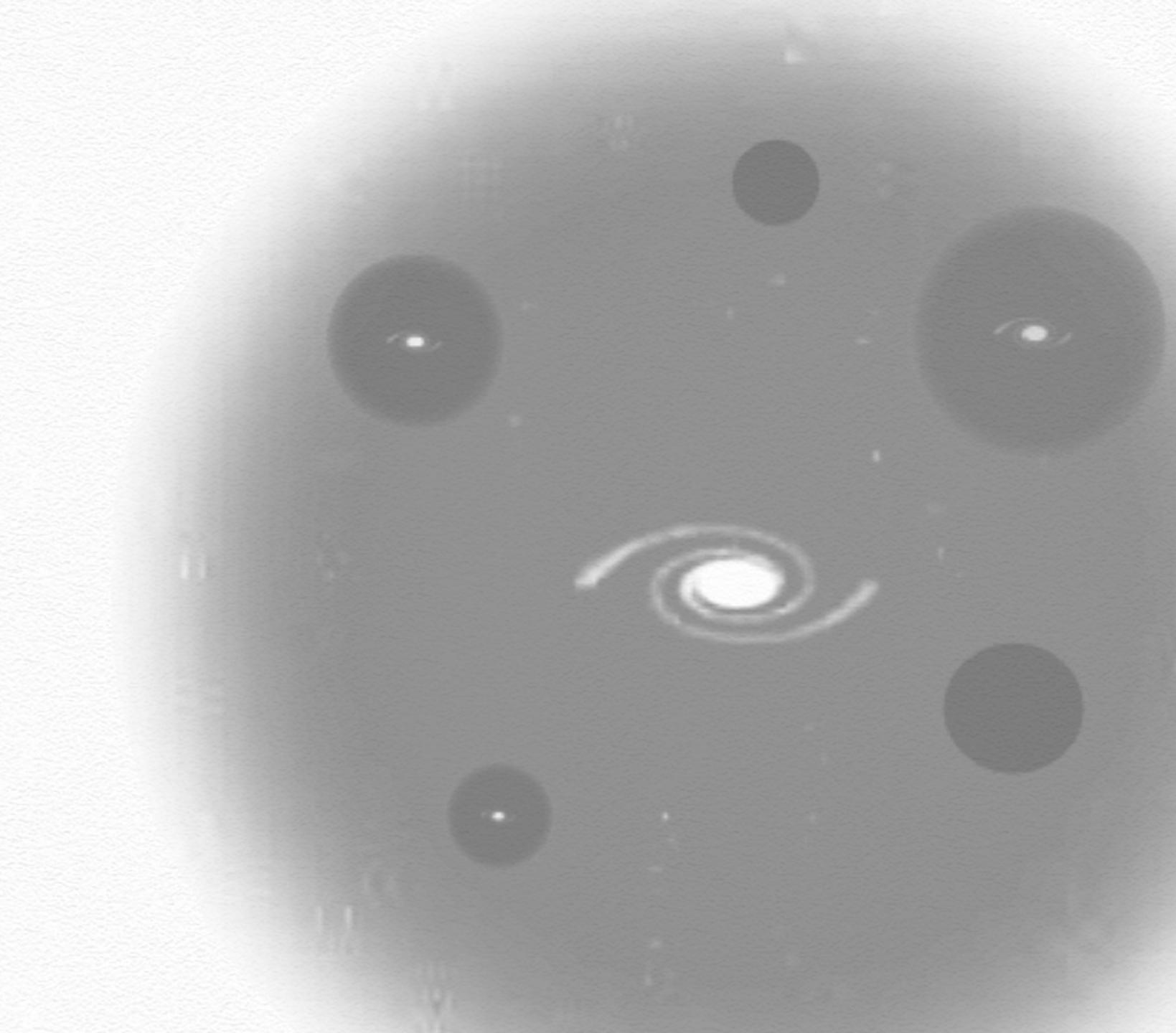


Dark Matter Halos

A figure or cartoon

Short bullet points

- Density peaks in the field
- Basic units for understanding LSS
- Contain substructures



Where does the remaining scatter come from?
Let's examine the details of halo mass assembly.

Ask a question

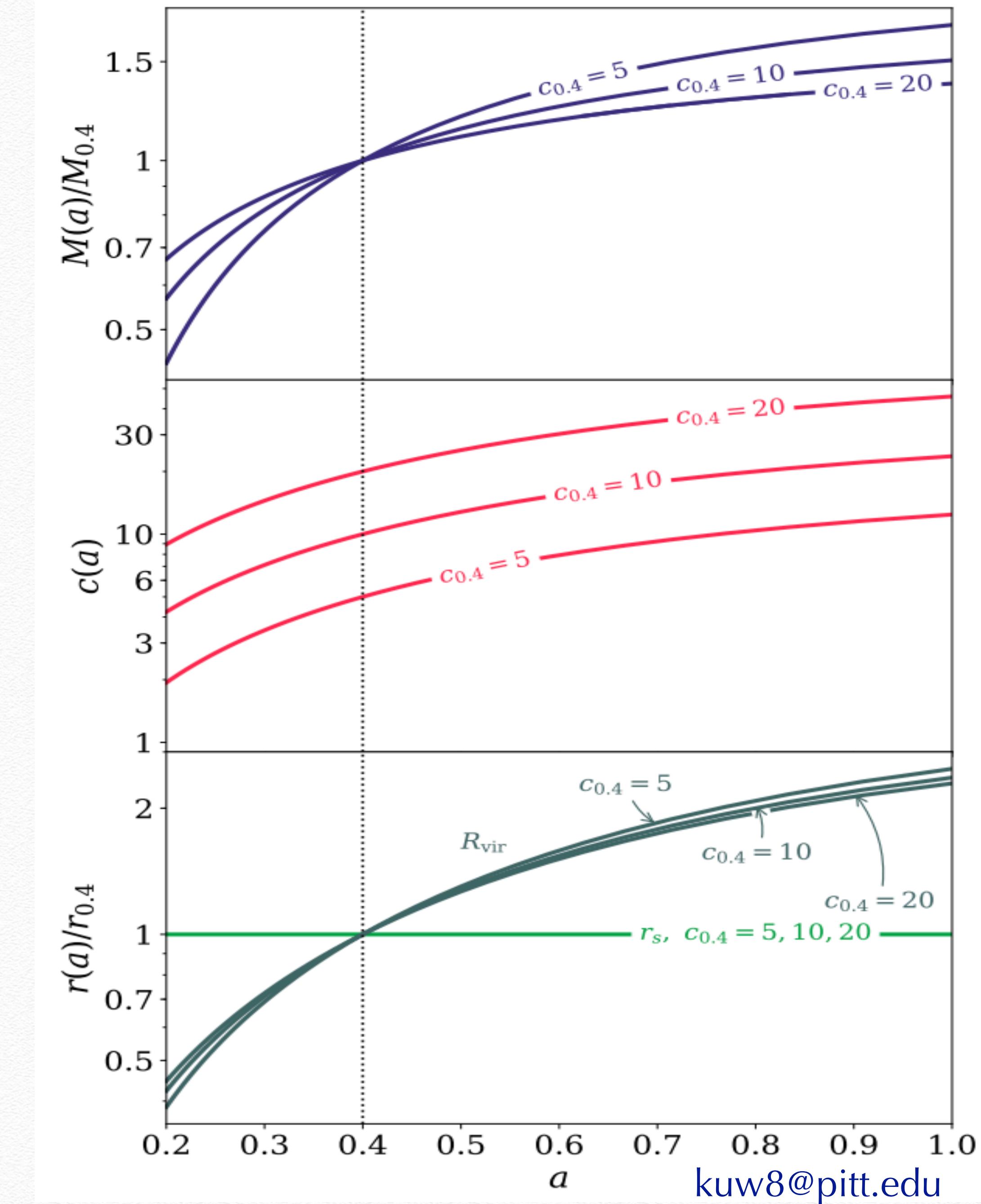
Where does the remaining scatter come from?
Let's examine the details of halo mass assembly.

Highlight keywords

Propose a solution

Pseudo-evolution

Universe evolves
↓
Reference density dilutes
↓
Halo definition changes
↓
Halos become larger
even without physical growth



Title

Pseudo-evolution

Universe evolves



Reference density dilutes

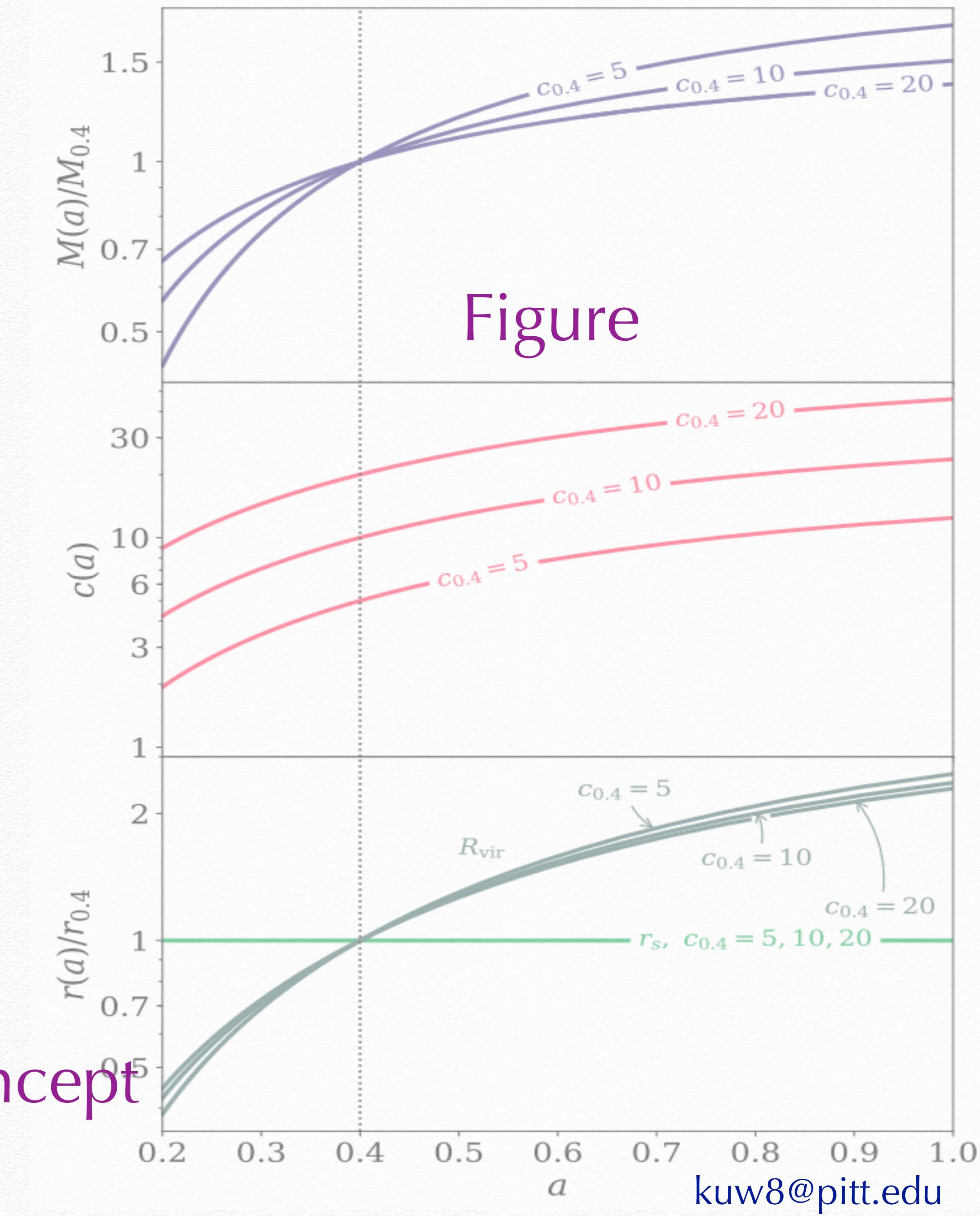


Halo definition changes



Halos become larger
even without physical growth

Flow chart / recipe to explain concept



Conclusions

Thank you!

- Conventionally defined halo formation times are highly correlated with concentration
- Major mergers induce dramatic changes in halo concentration, which can be associated with dynamical processes during mergers
- Minor mergers cause similar but weaker effects
- The accumulative effect of mergers manifests as a scatter in concentration that cannot be completely eliminated

Title Conclusions

Not on a separate page
Thank you!

- Conventionally defined halo formation times are highly correlated with concentration
- Major mergers induce dramatic changes in halo concentration, which can be associated with dynamical processes during mergers
- Minor mergers cause similar but weaker effects
- The accumulative effect of mergers manifests as a scatter in concentration that cannot be completely eliminated

One point for each part

No word limit here

Answering questions

Things you can say to look better while being honest

~~I don't know.~~



I haven't really thought about this but I will.

~~I don't remember.~~



I don't know off the top of my head but I can check.

~~What are you talking about?!~~



Let me try to rephrase your question, is this what you are asking?

Take-home Message

Rehearse your talk



Make it painless for the audience

