

Who am I?

A simple answer to a difficult question

Michele Citran



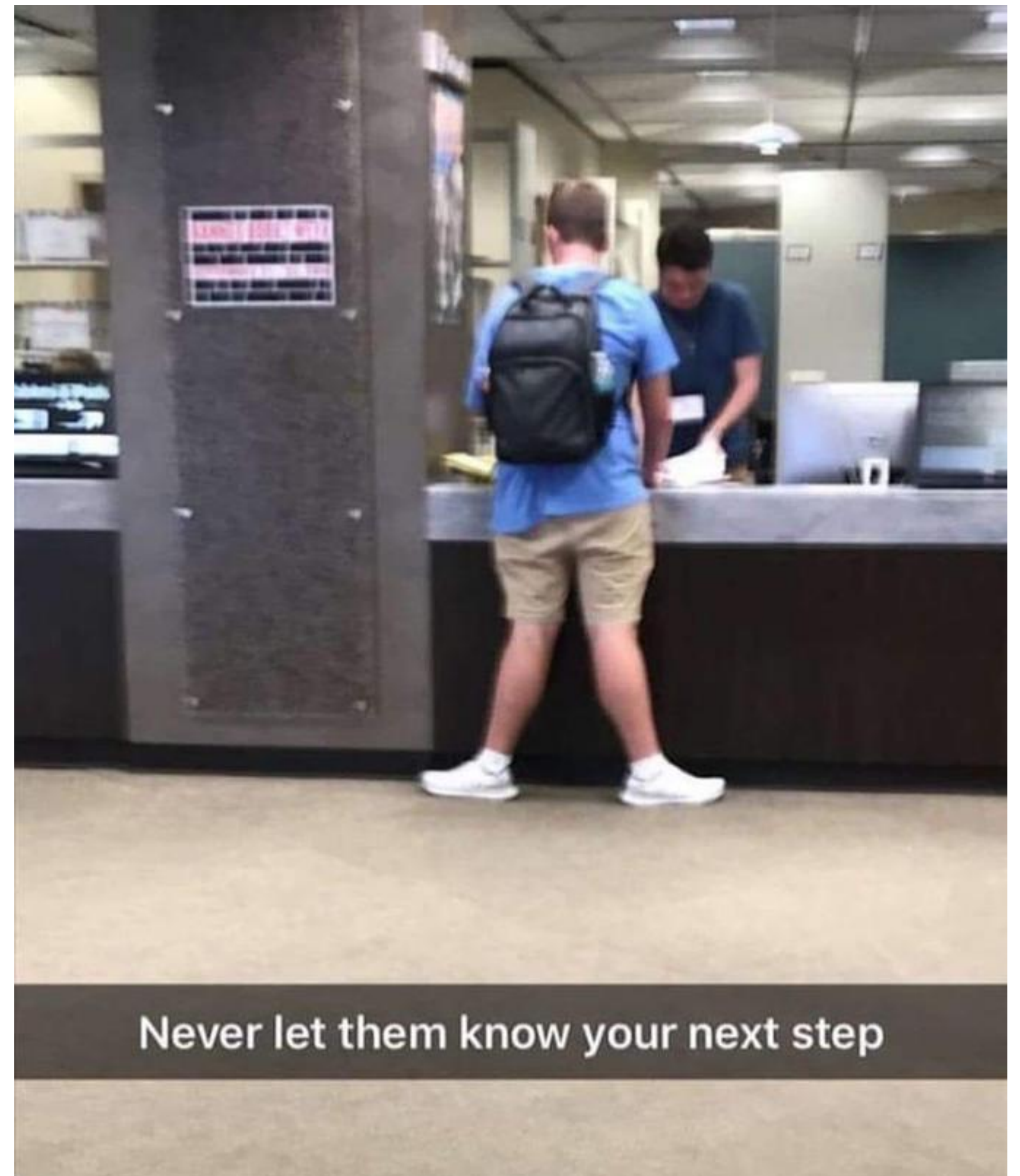


BSc and MSc at La Sapienza

Rome, Italy

Past Projects

- Bachelor's thesis on Artificial Intelligence and quantum phase transition
- Internship on quantum optics and quantum communication
- Master's thesis on twist-2 operators in N=4 Super Yang-Mills theory
- And now...

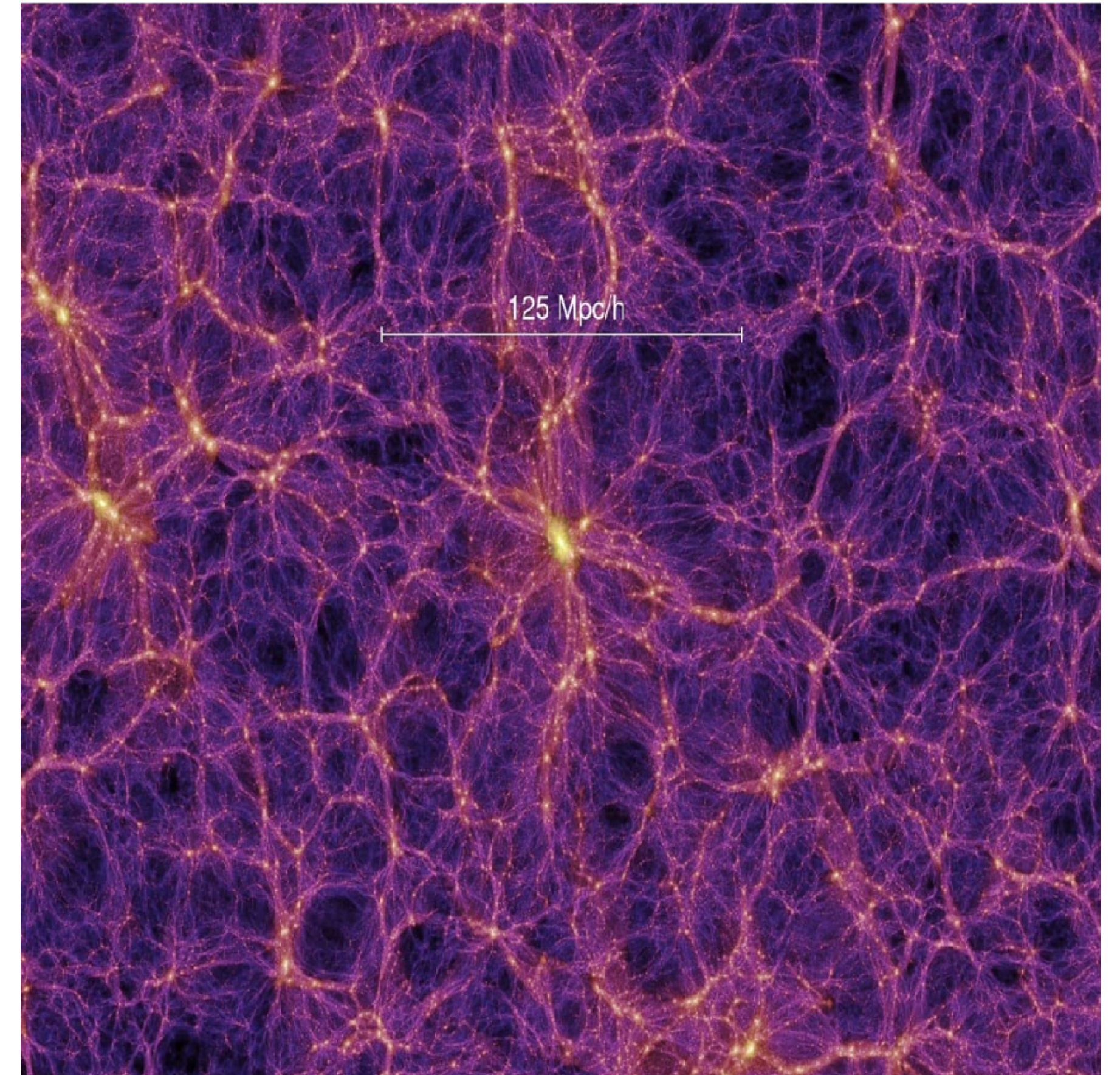
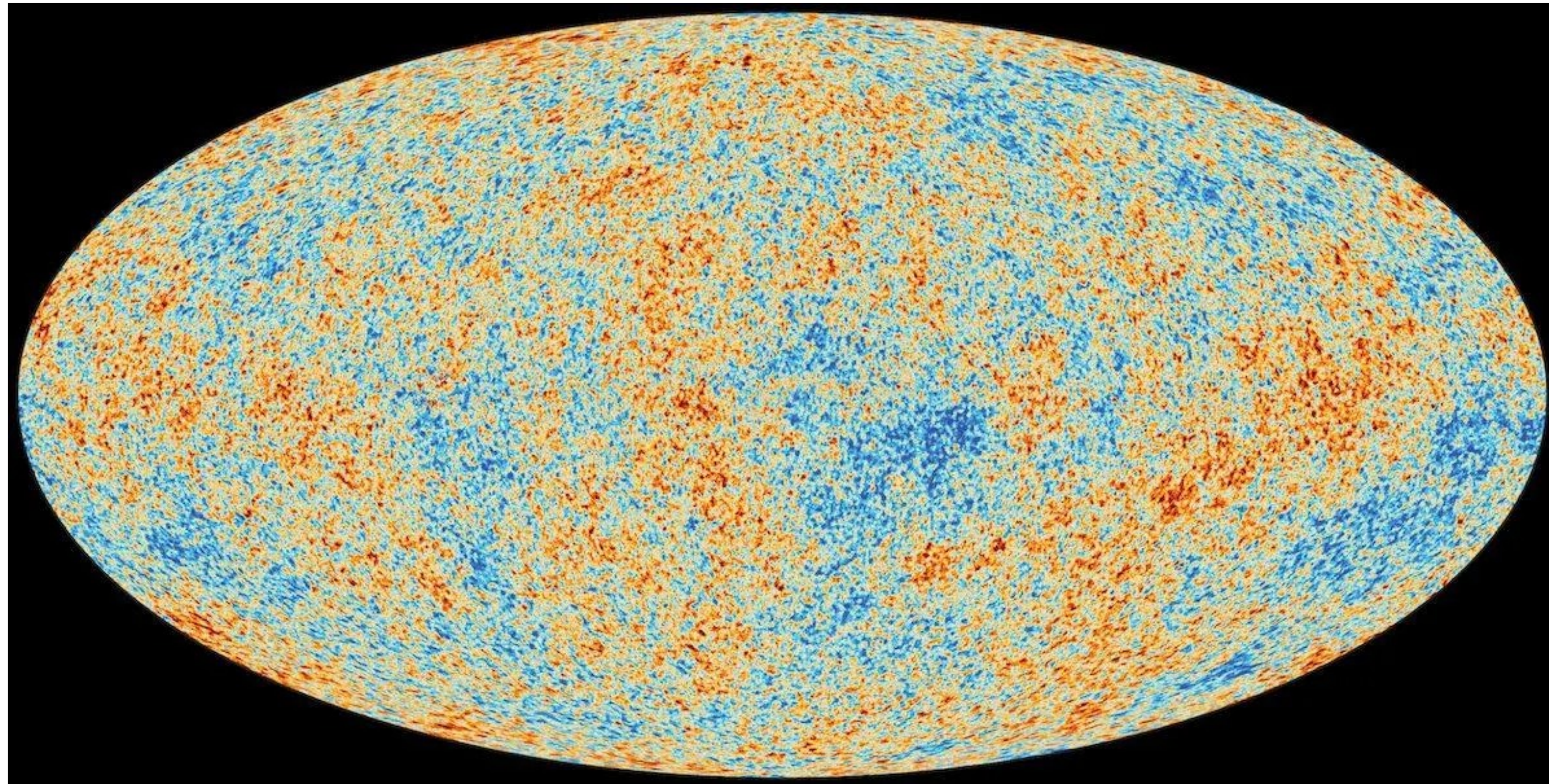


Never let them know your next step

My PhD's project Between IJCLab and APC



- Inflationary non-Gaussianities in the CMB and large-scale structure



CMB

Inflation = exponential expansion of space in the early universe $10^{-36}s \rightarrow 10^{-33}s$

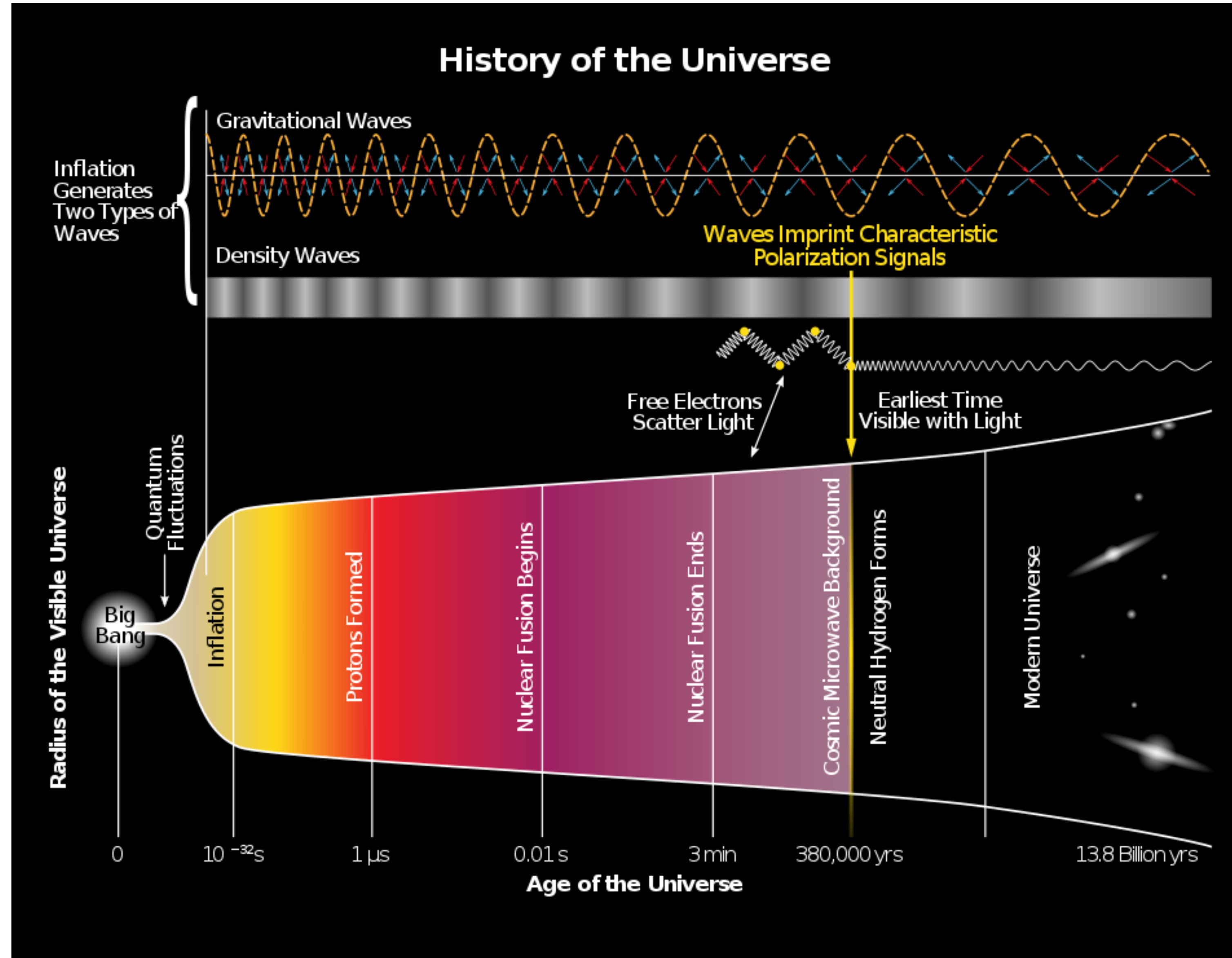
Explained by one (or more) scalar field (Inflaton) with an almost flat potential (“slow roll”)

Continued to expand and to cool down until 3000K after 380.000y

->Hydrogen forms

->The radiation travels freely:
CMB

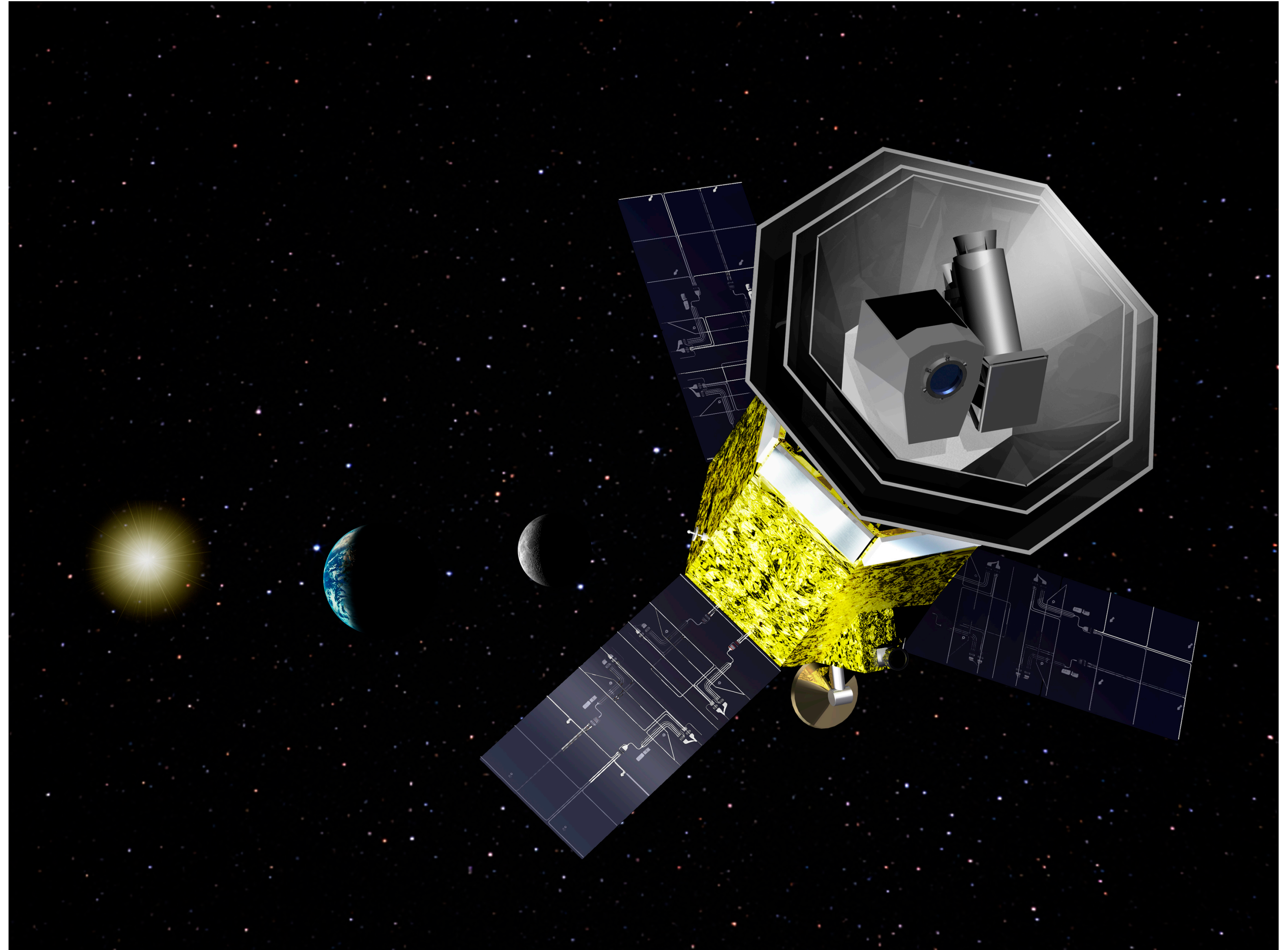
->Anisotropies



CMB: LiteBIRD collaboration (2029)

My current topic

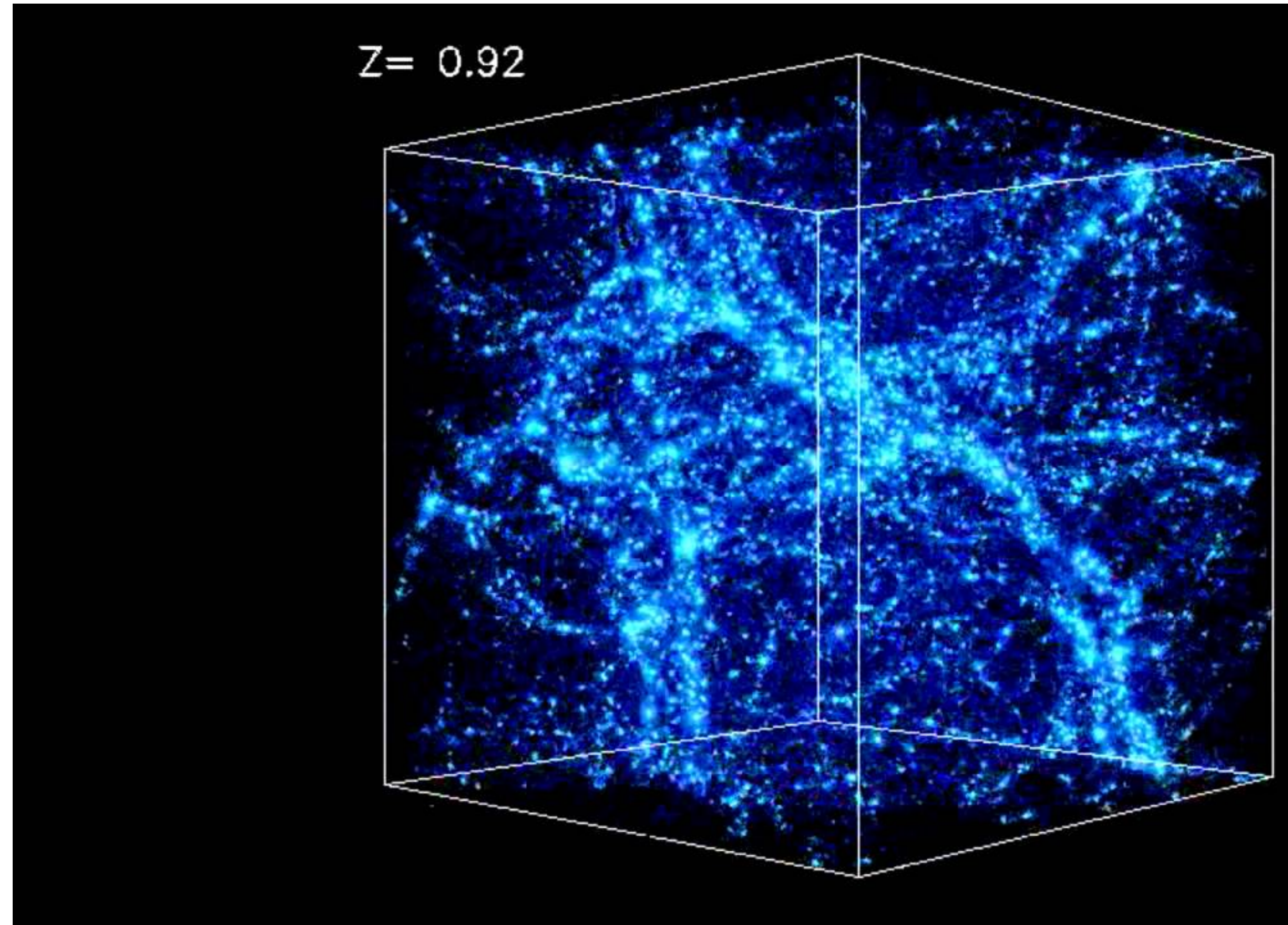
- We have extended the existing binned bispectrum code to include B-mode polarization and we are using it for the Fisher forecasts for LiteBIRD



LSS

The large scale structure of the universe also depends on the distribution of the Inflaton field

->One of the PhD's goals: probing 3D volume of data



More about me...



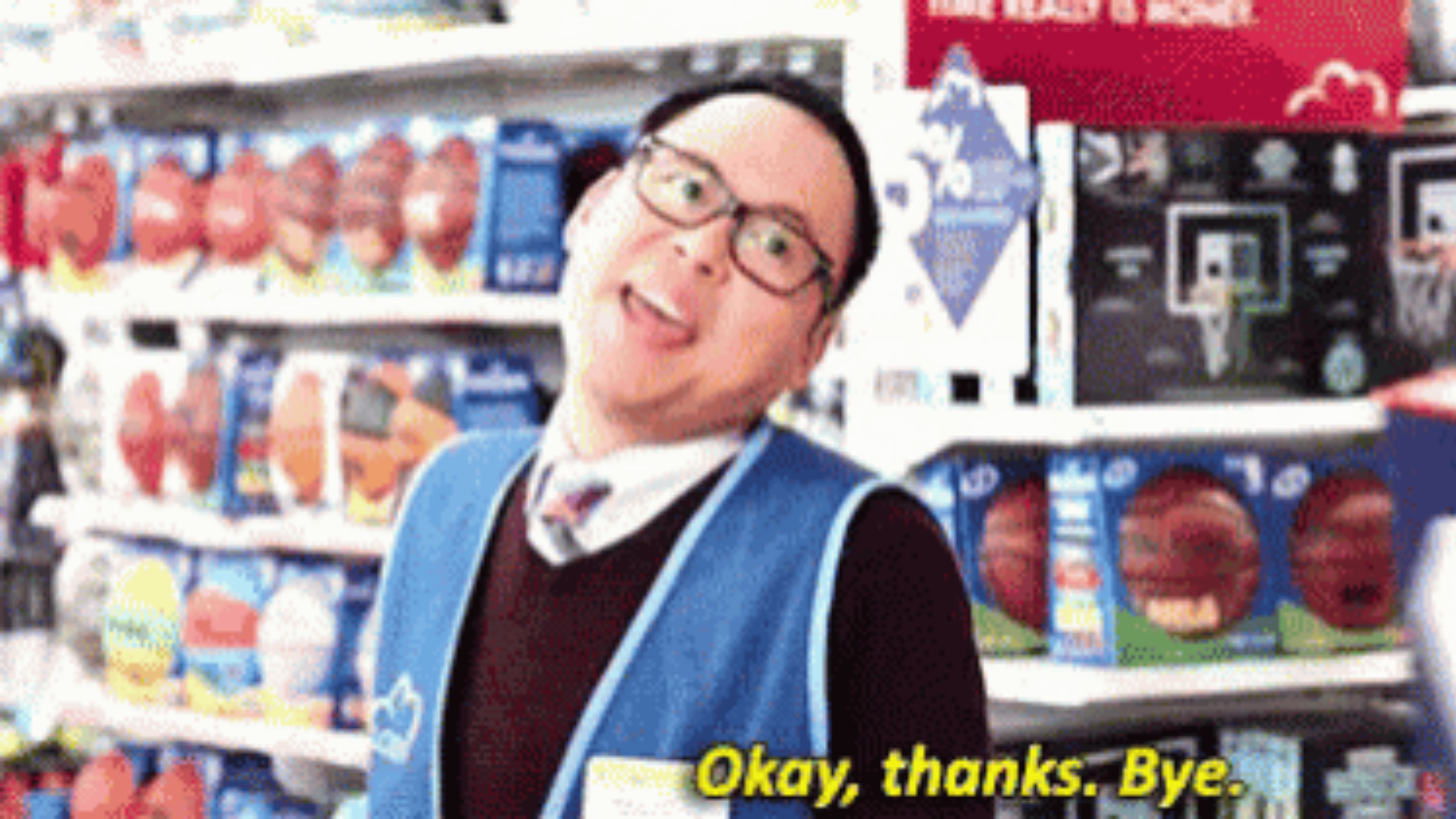
Gymnastics



Stand-up comedy



Volunteering



Okay, thanks. Bye.