

**Thursday, September 16, 2021**

11:00am–11:45am

**Yue Shen**

CAS Fellow 2018-19, Astronomy

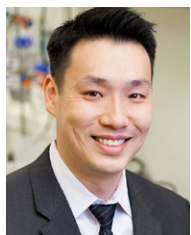
*How Do Black Holes Feast?*

Black holes in the universe grow by accretion and produce intensive radiation. Their observed feeding pattern reveals fundamental relations in their physical properties.

Noon–12:45pm

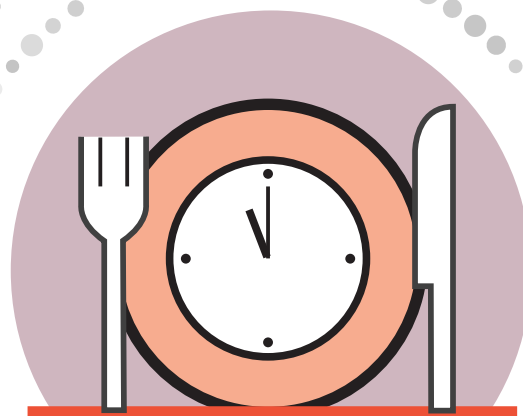
**Jefferson Chan**

CAS Beckman Fellow 2019-20, Chemistry

*Expanding the Chemical Toolbox for Acoustic-based Imaging of Cancer*

The development of chemical probes that can selectively image disease biomarkers at the molecular level has the potential to provide unique insights into disease progression.

During the period supported by CAS, my group has developed several activatable probes for photoacoustic imaging (a new light-in, sound-out technique) and applied these to visualize critical changes in the tumor microenvironment.

**FOOD FOR  
THOUGHT**

A new Center for Advanced Study public events series featuring presentations of research and creative projects by recent CAS Associates and Fellows.

This informal series includes talks that were canceled after campus shut down in Spring 2020. With the possibility of in-person events once again, we are delighted to showcase the work of some of our most productive and creative faculty in a series of intellectually and spiritually invigorating presentations. You are invited to drop in when you can and enjoy a bite to eat while you learn about the exciting projects undertaken by our faculty. A brunch buffet will be provided at all in-person events.

Center for Advanced Study  
Levis Faculty Center—Room 210  
919 W. Illinois, Urbana



For more information please  
scan the QR code or consult  
[cas.illinois.edu](http://cas.illinois.edu).