

Center for Advanced Study  
**CAS Associates and Fellows  
Noonhour  
Presentations**

Bring your lunch for a noonhour exploration  
of some of the best scholarship produced  
at the University of Illinois.

**12:00 Noon**

Music Room  
Levis Faculty Center, Suite 200  
919 West Illinois Street, Urbana  
University of Illinois at Urbana-Champaign

Free and open to the public.  
[cas.illinois.edu](http://cas.illinois.edu)

**Thursday, April 26, 2018**

**Zhi-Pei Liang**

*Department of Electrical & Computer Engineering,  
Associate 2016-17*

**Ultrafast MR Spectroscopic  
Imaging**



Since its invention in the early 1970s, magnetic resonance imaging (MRI) has revolutionized medicine and biology. However,

its applications thus far have been limited primarily to structural imaging and functional imaging. Professor Liang's research group has made major advances in overcoming the long-standing technical barriers of label-free molecular imaging using MR spectroscopic imaging. This ultrafast MRSI technology is based on a new approach to spatio-spectral imaging, achieving an unprecedented combination of resolution, speed and SNR for MRSI. In this talk, Professor Liang will give a brief overview of this new technology and show some exciting results that his research group has obtained.

