

# Enhanced, Science, Mathematics And Research Training

“K12 High School Science Education Outreach”

<http://ultracold.uchicago.edu/e.SMART2019>

## Kersten Physics Teaching Center (KPTC)

5720 South Ellis Avenue

Chicago, IL 60637

Number of Students: 10~15

Date: July 11- July 16, 2019

### Organizers:

Krutik Patel: (773) 702-1218, (760) 707-9152, [krutikp@uchicago.edu](mailto:krutikp@uchicago.edu)

Eileen Sheu: (773) 834-9916, [esheu@uchicago.edu](mailto:esheu@uchicago.edu)

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Maria Jimenez: (773) 702-9971, [mdjimene@uchicago.edu](mailto:mdjimene@uchicago.edu)

Cheng Chin: (773) 702-7192, [cchin@uchicago.edu](mailto:cchin@uchicago.edu)

### Agenda:

#### Thursday, July 11

	<u>Lecture + Experiment</u>	<u>Location</u>
9:45 am	Arrival and Breakfast	KPTC 206
10:00 - 10:50 am	<i>Topic 1: Light and Matter</i> (Krutik Patel and Michelle Chong)	KPTC 213
11:00 - 11:50 am	<i>Topic 2: Interpreting the Sky</i> (Krutik Patel and Michelle Chong)	KPTC 213
11:50 - 12:20 pm	Lunch with REU students	KPTC 206
12:20 - 1:30 pm	Chin Lab Tour (Jonathan Trisnadi, Geyue Cai)	GCIS ESB11
1:30 - 4:00 pm	<i>A Bright Idea</i> (Mark Chantell) (Assistants: Geyue Cai, Alex Preau)	KPTC 216
4:00 pm	Departure	5720 S. Ellis Avenue

#### Friday, July 12

	<u>High Speed Imaging and 3D Printing</u>	<u>Location</u>
	(Organizers: Jeffrey Gustafson and Justin Jureller ) (Morning Assistant: Lucas Baralt and Michelle Chong)	
9:45 am	Arrival and Breakfast	KPTC 206
10:00 am	Introduction to 3D Printing	KPTC 213
11:30 am	Introduction to High Speed Imaging	
12:15 pm	Lunch (Afternoon Assistant: Minjiamei Zhang, Alex Preau)	KPTC 206
1:00 pm	High Speed Imaging and 3D Printing	KPTC 213
4:00 pm	Departure	5720 S. Ellis Avenue

**Saturday, July 13**

1:45 pm  
 2:15 pm  
 6:00 pm  
 7:00 pm  
 7:30 pm  
 8:30 pm  
 10:00 pm

**Astro day - Observatory Tour (Athena Frost)****Location**  
(Assistants: [Huiting Liu](#), [Michelle Chong](#), [Xinyu Song](#))

Meet at U of C (Gordon Center) 929 E. 57<sup>th</sup> Street  
 Depart to Adler Planetarium Adler  
 Dinner in front of Adler  
 Depart Adler to U of C Campus  
 Blackhole Talk GCIS E123  
 Star Gazing Ryerson Observatory  
 Dismissed (Gordon Center) 929 E. 57<sup>th</sup> Street

**Monday, July 15**

8:30 am  
 9:00 am  
  
 10:00 am - 1:30 pm  
  
 1:30 pm  
 2:30 pm  
 2:30 pm  
  
 4:00 pm

**Holography and Argonne Lab**

Arrival and Breakfast  
 Bus to Argonne National Lab  
 (Alex Preau, [David Weisskopf](#) and [Lucas Baralt](#))  
 Argonne National Lab (*Lunch @ Argonne*)  
 (Contact person: [Pat Canaday](#), (630) 252-5562)  
 Depart Argonne  
 Arriving U of C Campus  
 Experiment demonstration  
 (Jonathan Trisnadi, [Kevin Yao](#), [David Weisskopf](#))  
 Departure

**Location**

KPTC 206  
 929 E. 57th Street

KPTC 213/211

**Tuesday, July 16**

9:45 pm  
 10:00 - 10:50 am  
  
 11:00 - 11:50 am  
  
 12:00 pm  
  
 1:00 pm  
 1:45 pm  
  
 2:30 pm  
  
 3:15 - 5:00 pm

**Lectures + Lab Tours + BBQ**

Arrival and Breakfast  
 Experiment and Demonstration (I)  
 ([Zhendong Zhang](#), [Mingjiamei Zhang](#))  
 Experiment and Demonstration (II)  
 ([Zhendong Zhang](#), [Mingjiamei Zhang](#))  
 Lunch with REU students  
 (Afternoon lab tour assistant: [Krutik Patel](#))  
 Engel Lab 2-6066 ([Sami Abdulhadi](#), [Siddhartha Sohoni](#))  
 Schuster Lab 2-7191  
 ([Gabrielle Roberts](#) and [Brendan Saxberg](#))  
 IME Nanofab Tour  
 (Contact: [Sally Wolcott](#) [swolcott@uchicago.edu](mailto:swolcott@uchicago.edu), (773) 834-3548)  
 BBQ Party  
 (Brian DeSalvo, everyone and parents are welcome.)

**Location**

KPTC 206  
 KPTC 206

KPTC 213

GCIS E028  
 GCIS E131

KPTC 206 and Balcony