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## EDUCATION

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### Massachusetts Institute of Technology

*Ph.D. Candidate in Physics, Cumulative GPA: 5.0/5.0*

Cambridge, MA

Expected, May 2021

- Ph.D. Advisor: Prof. Michael McDonald

### University of Chicago

*Bachelor of Arts in Physics with specialization of Astrophysics, Cumulative GPA: 3.86/4.0*

Chicago, IL

June 2015

- Honors Thesis Advisor: Prof. Hsiao-Wen Chen
- Honors Thesis: The Circumgalactic Medium in a Diverse Galaxy Environment

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## RESEARCH EXPERIENCE

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### Massachusetts Institute of Technology

*Graduate Research Fellow, under the supervision of Prof. Michael McDonald*

Cambridge, MA

August 2015-Present

10 nights of observation at Magellan Telescope, Las Campanas Observatory, Chile

### The University of Tokyo

*The FOTI Global Leadership Award, under the supervision of Prof. Motohide Tamura*

Tokyo, Japan

July 2014-August 2014

### The University of Chicago

Chicago, IL

- *Research Assistant at University of Chicago with Prof. Daniel Fabrycky*  
Topic: Transiting Exoplanet's Impact Parameters: Long vs Short Cadence  
Topic: Searching for Short-Period Circumbinary Planets  
2013-2015
- *Research Assistant at University of Chicago at the Knowledge Lab under the supervision of Prof. James Evans*  
Topic: Weaving the fabric of science: Dynamic network models of science's unfolding structure  
2013-2015
- *Research Assistant at University of Chicago with Prof. Michael Gladders*  
Topic: Looking for Strong Gravitational Lensing from SDSS database  
2012-2013

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## AWARDS

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### Massachusetts Institute of Technology

*Clark Fellow, Graduate Research Fellowship*

Cambridge, MA

2015

### The University of Tokyo

*The FOTI Global Leadership Award*

Tokyo, Japan

2014

### The University of Chicago

Chicago, IL

- *Phi Beta Kappa*  
2015
- *Dean's List*  
2012-2015
- *The Maroon Key Society*  
2014-2015
- *Walter and Fay Selove Prize in Physics: A Summer Research Scholarship*  
2013

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## TEACHING EXPERIENCE

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### The University of Chicago

*College Core Tutor Program for Physics*

Chicago, IL

2015

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## PUBLICATION

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**T. Somboonpanyakul**, M. McDonald, H. W. Lin, B. Stalder, A. Stark, “The Clusters Hiding in Plain Sight (CHiPS) Survey: A First Discovery of a Massive Nearby Cluster Around PKS1353-341” 2018

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## SELECTED PRESS

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- Space.com Press – “*Huge Galaxy Cluster Found Hiding in Plain Sight*” June 2018

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## CONTRIBUTED TALKS AND POSTERS

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**T. Somboonpanyakul**, M. McDonald, *Galaxy Clusters Hiding in Plain Sight (The CHiPS Survey)* – Poster

- *SnowCluster – The Physics of Galaxy Clusters*, Snowbird, UT, 2018
- *Chandra Science for the Next Decade*, Harvard University, Cambridge, MA, 2016
- *227<sup>th</sup> Meeting American Astronomical Society*, AAS, Kissimmee, FL, 2016 <2016AAS...22743907S>

**T. Somboonpanyakul**, D. Fabrycky, *Transiting Exoplanet’s Impact Parameter: Long vs Short Cadence* – Talk

- *Planetary Systems; A Synergistic View*: ICISE, Quy Nhon, Vietnam, 2015
- *UChicago-Northwestern Exoplanet Workshop*, Alder Planetarium, Chicago, IL, 2014

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## OBSERVATION EXPERIENCE

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**Magellan Telescope** La Serena, Chile  
Used PISCO imagers to take snapshots of > 220 galaxy clusters, over 4 observational runs 2016-Present

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## PUBLIC OUTREACH

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**Massachusetts Institute of Technology** Cambridge, MA  
*Volunteer* at Cambridge Science Festival 2018 with MIT Museum 2018

**Harvard University** Cambridge, MA  
*World Wide Telescope Ambassadors* at World Wide Telescope 2016

**Mahidol University** Bangkok, Thailand  
• *Gave a Public talk* titled “Impact of Active Galaxy on Galaxy Cluster” 2017  
• *Volunteer Staff* at Asian Science Camp (ASC2015) 2015

**Kasetsart University** Bangkok, Thailand  
*Gave a seminar for undergraduate students* titled “Impact of Active Galaxy on Galaxy Cluster” 2017

**The University of Chicago** Chicago, IL  
• *President of Ryerson Astronomical Society (RAS)* 2013-2014  
• *Organizer* for a Yerkes Observatory Weekend Workshop 2014  
• *Member of the 2012-2015 International Student Advisory Board (ISAB)* 2012-2015  
• *Residential Computing Assistant*: Help residence with computer issues 2012-2013  
• *Tech Coordinator, Neighborhood School Program*: Assist teachers regarding technology 2013

**Korea Advanced Institute of Science and Technology (KAIST)** Daejeon, South Korea  
*Delegate Speaker* at International Conference for the Integration of Science, Technology and Society (ICISTS) with a topic “A Push for more Computer Science Education” 2013

**National Astronomical Research Institute of Thailand (NARIT)** Chiang Mai, Thailand  
• *Gave a Seminar talk* titled “The Clusters Hiding in Plain Sight Survey (CHiPS)” 2017  
• *Liaison Officer* at 11th Asian-Pacific Regional IAU Regional Meeting (APRIM2011) 2011

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## SKILLS

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- Programing: Proficient IDL, Proficient Latex, Proficient Python, basic R
- Fluent in Thai