
EDUCATION

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

RESEARCH EXPERIENCE

Massachusetts Institute of Technology

Graduate Researcher Fellow, under the supervision of Prof. Michael McDonald
10 nights of observation at Magellan Telescope, Las Campanas Observatory, Chile

Cambridge, MA

August 2015-Present

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

- *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

Chicago, IL

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

AWARDS

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

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

Chicago, IL

2015

2012-2015

2014-2015

2013

TEACHING EXPERIENCE

The University of Chicago

College Core Tutor Program for Physics

Chicago, IL

2015

PUBLICATION

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” Submitted

CONTRIBUTED TALKS AND POSTERS

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
- 227th 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

OBSERVATION EXPERIENCE

Magellan Telescope

Used PISCO imagers to take snapshots of > 220 galaxy clusters, over 4 observational runs

La Serena, Chile

2016-Present

PUBLIC OUTREACH

Massachusetts Institute of Technology

Volunteer at Cambridge Science Festival 2018 with MIT Museum

Cambridge, MA

2018

Harvard University

World Wide Telescope Ambassadors at World Wide Telescope

Cambridge, MA

2016

Mahidol University

• *Gave a Public talk* titled “Impact of Active Galaxy on Galaxy Cluster”

Bangkok, Thailand

2017

• *Volunteer Staff* at Asian Science Camp (ASC2015)

2015

Kasetsart University

Gave a seminar for undergraduate students titled “Impact of Active Galaxy on Galaxy Cluster”

Bangkok, Thailand

2017

The University of Chicago

• *President of Ryerson Astronomical Society (RAS)*

Chicago, IL

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)

Delegate Speaker at International Conference for the Integration of Science, Technology and Society

Daejeon, South Korea

(ICISTS) with a topic “A Push for more Computer Science Education”

2013

National Astronomical Research Institute of Thailand (NARIT)

• *Gave a Seminar talk* titled “The Clusters Hiding in Plain Sight Survey (CHiPS)”

Chiang Mai, Thailand

2017

• *Liaison Officer* at 11th Asian-Pacific Regional IAU Regional Meeting (APRIM2011)

2011

SKILLS

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