

TAWEEWAT SOMBOONPANYAKUL – CV

CONTACT INFORMATION

MIT Kavli Institute, Massachusetts Institute of Technology
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EDUCATION

Massachusetts Institute of Technology, Ph.D. in Physics, expected 2021

- Ph.D. Advisor: Prof. Michael McDonald
- Cumulative GPA: 5.0/5.0

University of Chicago, BA in Physics with specialization in Astrophysics, 2015,

- Honor Thesis Advisor: Prof. Hsiao-Wen Chen
- Cumulative GPA: 3.86/4.0

AWARDS

2019 Representative to Lindau Nobel Laureate Meetings, Lindau, Germany

2015 MIT Clark Fellow, Graduate Research Fellowship

2015 The University of Chicago, Phi Beta Kappa, Dean's List

2014 The University of Tokyo, The FOTI Global Leadership Award

2014, 2015 The University of Chicago, The Maroon Key Society

2013 The University of Chicago, Walter and Fay Selove Prize in Physics

SELECTED PRESS

- MIT News Press – “*Sprawling galaxy cluster found hiding in plain sight*”, Aug. 2018
- Space.com Press – “*Huge Galaxy Cluster Found Hiding in Plain Sight*”, Jun. 2018

RESEARCH GRANTS

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OBSERVING

Successful Telescope Proposal as PI or as the majority contributor

- *Hubble*, 2019 Mid Cycle, “Imaging a Rare Starburst Central Galaxy in a Merging Cluster”, 2 orbits
- Magellan, 2018B, “Spectroscopic Follow Up for the CHiPS galaxy clusters candidates”
- *Chandra*, 2018, “A Unique Sample of Extreme-BCG Clusters at $0.2 < z < 0.6$ ”
- Magellan, 2016B, “The CHiPS Surveys: Clusters Hiding in Plain Sight”
- Magellan, 2016A, “The CHiPS Surveys: Clusters Hiding in Plain Sight”

Observing Experience

- Magellan Telescope, Las Campanas Observatory (LCO), Long-slit spectroscopy with LDSS3, 2018
- Magellan Telescope, (LCO), Optical imaging with PISCO, 2017B
- Magellan Telescope, (LCO), Optical imaging with PISCO, 2017A
- Magellan Telescope, (LCO), Optical imaging with PISCO, 2016B

TEACHING

Undergraduate/Graduate Taught Course

- Graduate Teaching Assistant, for Prof. Michael McDonald in 8.902 graduate-level Astrophysics II at MIT, 2019
- Graduate Teaching Assistant, for Prof. Kiyoshi Masui in 8.01 Physics I at MIT, 2018
- College Core Tutor Program for Physics at the University of Chicago, 2015

OUTREACH

- Session Chair, “Galaxy Cluster I”, *235th Meeting American Astronomical Society*, 2020
- Member of MIT Astrogazers, Observing with the public on the sidewalk, 2017-Present
- Volunteer at MIT Museum, “Nautical Day with Celestial Navigation”, Nov. 2018
- Volunteer at Cambridge Science Festival, “Solar Observing”, Apr. 2018
- Volunteer at MIT Museum, “Mathernoon Day”, Mar. 2018
- Public Speaker at Mahidol University, “Impact of Active Galaxies on Galaxy Clusters”, Aug. 2017
- World Wide Telescope Ambassadors at Harvard University, 2016
- Organizer for a Yerkes Observatory Weekend Workshop, WI, 2014
- President of Ryerson Astronomical Society at the University of Chicago, 2013-2014

RESEARCH PRESENTATION

Contributed Talks

- *235th Meeting American Astronomical Society*, AAS, Honolulu, HI, Jan. 2020, “Clusters Hiding in Plain Sight (CHiPS)”
- *Planetary Systems: A Synergistic View*, ICISE, Quy Nhon, Vietnam, Jul. 2015, “Transiting Exoplanet’s Impact Parameter: Long vs Short Cadence”
- *UChicago-Northwestern Exoplanet Workshop*, Alder Planetarium, IL, 2014, “Transiting Exoplanet’s Impact Parameter: Long vs Short Cadence”

Seminars

- National Astronomical Research Institute of Thailand, Chiang Mai, Thailand, Jan. 2019
- Kasetsart University, Bangkok, Thailand, Jan. 2019
- Mahidol University, Bangkok, Thailand, Jan. 2019
- Carnegie Observatories, Pasadena, Dec. 2018

Conference Posters

- *Tracing Cosmic Evolution with Clusters of Galaxies*, Sesto (BZ), Italy, Jul. 2019
- *69th Lindau Nobel Laureate Meeting*, Lindau, Germany, Jul. 2019
- *17th Meeting High Energy Astrophysics Division*, Monterey, CA, Mar. 2019
- *SnowCluster – The Physics of Galaxy Clusters*, Snowbird, UT, Mar. 2018
- *Chandra Science for the Next Decade*, Cambridge, MA, Aug. 2016
- *227th Meeting American Astronomical Society*, AAS, Kissimmee, FL, Jan. 2016

REFEREED PUBLICATIONS

- **Somboonpanyakul, T.;** McDonald, M.; Lin, H. W.; Stalder, B.; Stark, A., 2018, *ApJ*, 863:122, “The Clusters Hiding in Plain Sight (CHiPS) Survey: A First Discovery of a Massive Nearby Cluster Around PKS1353-341”

- McDonald, M.; McNamara, B. R.; Voit, G. M.; Bayliss, M.; Benson, B. A.; Brodwin, M.; Canning, R. E. A.; Florian, M. K.; Garmire, G. P.; Gaspari, M.; Gladders, M. D.; Hlavacek-Larrondo, J.; Kara, E.; Reichardt, C. L.; Russell, H. R.; Saro, A.; Sharon, K.; **Somboonpanyakul, T.**; Tremblay, G. R.; van Weeren, R. J., 2019, *ApJ*, “Anatomy of a Cooling Flow: The Feedback Response to Pure Cooling in the Core of the Phoenix Cluster”