

Khunanon Thongkham

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| CONTACT INFORMATION | 91 Moo 6, Nong Kham Village, Nong Lom Hang Chat, Lampang, 52190 Thailand | +6682-971-0238 kthongkham@uf1.edu |
| EDUCATION | University of Florida, Gainesville, FL USA Ph.D. Astronomy, Aug 2024 M.S. Astronomy, May 2022 Thesis title: <i>The Massive and Distant Clusters of WISE Survey 2</i> Advisor: Professor Anthony Gonzalez University of Colorado at Boulder, Boulder, CO USA B.A. Physics, May 2019 B.A. Astronomy, May 2019 | |
| RESEARCH INTEREST | Galaxy cluster detection with optical and infrared photometry, galaxy cluster evolution, multiwavelength study of galaxy cluster and its components, large scale structure of the universe, cosmology, galaxy evolution | |
| PROPOSALS | Co-Investigator on Palomar Proposal WIRC Imaging of $z \approx 2$ Galaxy Cluster Candidates from WISE PI: Peter Eisenhardt 2024A, 2024B Co-Investigator on Magellan Proposal Moo Two: Letting MaDCoWS 2 Out of the Barn PI: Thomas Connor 2023B, 2024A Co-Investigator on GTC Proposal Confirmation of $z \approx 2$ Galaxy Clusters from MaDCoWS2 PI: Anthony Gonzalez 2022B Co-Investigator on GBT Proposal MUSTANG-2 Observations of the Highest-Richness MaDCoWS Clusters at $0.8 < z < 1.6$ PI: Mark Brodwin 2020B | |
| MENTORING | University of Florida, Gainesville, FL <ul style="list-style-type: none">• Undergraduate Student: Ryan Spivey (University of Florida, Spring 2024)• Undergraduate Student: Shambhavi Srivastava (University of Arizona, summer 2023) | |

PRESENTATIONS

1. *Finding galaxy clusters at high redshift with infrared and optical data*, Talk, UF Astronomy Symposium 2023. (September 2023)
2. *Wide Area Galaxy Cluster Survey with WISE data*, Talk, UF Astronomy Symposium 2022. (October 2022)
3. *Massive and Distant Clusters of WISE Survey 2 preliminary result*, Talk, 2022 GTC VII MEETING, online. (May 2022)
4. *Massive and Distant Clusters of WISE Survey 2*, Poster, Galaxy Clusters 2022 STScI Spring Symposium, online. (Apr 2022)
5. *A Wide Area Galaxy Cluster Survey With WISE Data*, Talk, UF Astronomy Symposium 2021, online. (October 2021)
6. *Finding Galaxy Clusters up to Redshift of 2 using Optical and Infrared Data*, Talk, UF Astronomy Symposium 2020. (September 2020)

PUBLICATIONS

1. *The Massive and Distant Clusters of WISE Survey 2: Second Data Release*
Thongkham, K., et al, 2024, ApJ, in press (arXiv:2410.15303)
2. *The Massive and Distant Clusters of WISE Survey 2: A Stacking Analysis Investigating the Evolution of Star Formation Rates and Stellar Masses in Groups and Clusters*
Trudeau, A., et al, 2024, ApJ, 972, 1, 27 (arXiv:2406.03633)
Contribution: MaDCoWS2 catalog expert
3. *The Massive and Distant Clusters of WISE Survey 2: Equatorial First Data Release*
Thongkham, K., et al, 2024, ApJ, 967, 2, 123 (arXiv:2403.16976)
4. *The Massive and Distant Clusters of WISE Survey XI: Stellar Mass Fractions and Luminosity Functions of MaDCoWS Clusters at $z \approx 1$*
Decker, B., et al, 2020, ApJ, 936, 1, 71 (arXiv:2112.12239)
Contribution: GBT observer
5. *The Massive and Distant Clusters of WISE Survey. X. Initial Results from a Sunyaev-Zeldovich Effect Study of Massive Galaxy Clusters at $z > 1$ Using MUSTANG2 on the GBT*
Dicker, S., et al, 2020, ApJ, 902, 2, 144 (arXiv:2006.06703)
Contribution: GBT observer

REFERENCES

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PROGRAMMING
LANGUAGES AND
SOFTWARE

Python, Bash, L^AT_EX, High-performance computing, Git, DS9