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Ho Seong Hwang
Curriculum Vitae

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1. Education

Aug. 2007: Ph.D. in Astronomy, Seoul National University, Korea (**Advisor**: Myung Gyoon Lee)
Thesis: Dynamics of Galaxy Clusters in Wide-field Galaxy Surveys
Feb. 2001: B.S. in Physics, Korea Advanced Institute of Science and Technology (KAIST), Korea

2. Positions

2021/03 – Present: Associate Professor, Seoul National University, Korea
2024/07 – Present: Visiting Associate Professor, Macquarie University, Australia
2021/04 – Present: Visiting Scientist, Korea Astronomy and Space Science Institute (KASI), Korea
2019/04 – Present: Associate Member, Korea Institute for Advanced Study (KIAS), Korea
2018/12 – 2021/02: Staff Scientist, KASI, Korea
2014/09 – 2018/12: Research Professor, KIAS, Korea
2011/10 – 2014/08: Research Fellow, Harvard-Smithsonian Center for Astrophysics, USA
2009/05 – 2011/09: Research Fellow, CEA Saclay, France
2007/09 – 2009/04: Research Fellow, KIAS, Korea
2004/12 – 2005/04: Visiting Research Associate, School of Physical Sciences, University of Kent, UK
2001/03 – 2003/02: Teaching Assistant, Seoul National University, Korea

3. Awards

- Sep. 2023 : 2023 SNU College of Natural Science Excellent Lecture Award
- Dec. 2020 : Elected Member of Young Korean Academy of Science and Technology (Y-KAST)
- Oct. 2019 : Outstanding Young Astronomer Award (Korean Astronomical Society)
- Nov. 2016 : One of 30 promising young Korean scientists (by POSTECH)
- Aug. 2007 : Seoul National University Graduate Student Research Award

4. Research Interests

- Large-scale Structures in the Universe
- Observational Cosmology
- Galaxy Formation and Evolution
- Formation of Galaxy Clusters/Groups
- Environmental Effects on Galaxy Properties
- Infrared Luminous Galaxies
- Galaxy Interactions and Mergers
- Globular Cluster Systems in Galaxies

5. References

Prof. Margaret Geller	Smithsonian Astrophysical Observatory, USA	mgeller@cfa.harvard.edu
Prof. Changbom Park	Korea Institute for Advanced Study, Korea	cbp@kias.re.kr
Prof. Myung Gyoon Lee	Seoul National University, Korea	mglee@astro.snu.ac.kr
Prof. David Elbaz	CEA Saclay, France	delbaz@cea.fr
Prof. Daniel Fabricant	Smithsonian Astrophysical Observatory, USA	dfabricant@cfa.harvard.edu

Current Graduate Students

- Dongkok Kim (Ph.D., 2021.03 -)
- Sang Hyeon Han (Master/Phd, 2022.03 -)
- Hyeonguk Bahk (Master/Phd, 2021.09 -)
- Yigon Kim (Phd.D., 2024.03 -)
- Gain Lee (Ph.D., 2021.09 -)
- Sang Hyeok Im (Master/Phd, 2021.03 -)
- Daeun Jeong (Master/Phd, 2021.09 -)
- Minsung Kwon (Master/Phd, 2023.03 -)

Current Undergraduate Interns

- Woosuk Kang (SNU, 2021.12 -)
- Jiwon Jang (SNU, 2022.12 -)
- Soojin Kim (SNU, 2022.09 -)
- Hyunjun Na (SNU, 2023.09 -)

Former Undergraduate Interns

- Avery Abramson (UT Austin, 2024.06 - 07)
- Hanbee Seo (Univ. of St Andrews, 2023.06 - 08)
- Taewan Kim (SNU, 2021.07 - 2023.02)
- Yonguk Cho (Kyung Hee Univ., 2024.03 - 06)
- Byungmoo Lim (Postech, 2023.06 - 08)
- Jae Won Lee (PNU, 2022.03 - 08)

6. Students under Supervision

7. Professional Service

• **Paper Review**:
Astrophysical Journal (ApJ), Astrophysical Journal Letters (ApJL),
Monthly Notices of the Royal Astronomical Society (MNRAS), Astronomy & Astrophysics (A&A),
Publications of the Astronomical Society of Japan (PASJ), Journal of the Korean Astronomical Society (JKAS),
Research in Astronomy and Astrophysics (RAA), Astrophysics and Space Science (ASS)

• **Proposal Review**:
K-GMT Science Program (Gemini/MMT), Canada-France-Hawaii Telescope (CFHT) for Taiwan's TAC,
East Asian VLBI Network (EAVN)/KaVA(KVN and VERA Array), KVN (Korean VLBI Network)

• **Workshop and Conference**:
LOC for KIAS Workshop on Cosmology and Structure Formation (2008, 2016, 2018),
Organizer for Survey Science Group Workshop (2015−2018),
SOC for East Asia ALMA Science Workshop (2020), Galaxy Evolution Workshop (2020, 2021, 2022)

• **Committees**:
Strategic Science Plan Working Group Member for Gemini Telescope (2024 -),
Science Advisory Committee for GMACS (the Giant Magellan Telescope Multi-object Astronomical and Cosmological Spectrograph) for the Giant Magellan Telescope (2022 -),
K-GMT Science and Instrument Working Group (2019 -)

• **Activities in Academic Societies**:
Board and Scientific Committee member of the Korean Astronomical Society (KAS, 2020−2023),
Member of the 31st International Astronomical Union General Assembly (IAUGA 2022) Committee,
Secretary of the Committee for the Korean Encyclopedia of Astronomy (with KAS/Naver, 2020) Steering Committee member for the Nomination of the Astronomical Registry in Joseon Dynasty as UNESCO World Heritage (2022-)
Secretary of the Project in KIAS, "Science with Citizens" (2022 -)

• **Activities in University**:
Vice President of SNU Center for Sports Promotion (2022-2024)

8. Talks in the last 3 years

8.1. Conferences / Colloquia / Lectures

2024/01/29 (Inv.) *"Current Status of K-SPEC for A-SPEC"*,
High 1 Resort, Korea (The 12th Survey Science Group Workshop)

2023/01/25 (Inv.) *"Studying Galaxy Clusters with SPHEREx plus 7DT"*,
Forest Resom Resort, Korea (2024 SPHEREx-7DT Joint Workshop)

2023/12/18 (Inv.) *"Studying Extragalactic Astronomy and Cosmology"*,
The Weekandresort @ Incheon, Korea (The 1st Workshop for the Panchromatic View of Galaxy Formation and Evolution from Star Clusters to Galaxy Clusters)

2023/12/08 *"Seongbyeoncheukhudanja: Orbit Calculation of Comets"*,

Hwasung Rollinghills, Korea (The 2nd Workshop of UNESCO registration Promotion Committee for Seongbyeoncheukhudanja)

2023/11/13 *"VR-based Platform for Astronomy Education"*,
Seoul National University, Korea (2023-1 Workshop for VR-based Education)

2023/09/15 *"A Spectroscopic Survey for the Nearby Universe with KMTNet: A-SPEC + K-SPEC"*,
KASI, Korea (2023 KMTNet Workshop)

2023/07/28 (Inv.) *"Extragalactic Astronomy and Cosmology"*,
Seoul National University, Korea (2023 Korea Astronomy Olympiad Summer Camp)

2023/07/18-24 (Inv.) *"JWST and Beyond"*,
KIAS, Korea (Pyeong-Chang Summer Institute Lecture)

2023/06/30 (Inv.) *"Dark (Matter) Galaxies: Simulations and Observations"*,
Vivaldi Park in Hong Chun, Korea (Cosmology workshop on the crossroad of astrophysics and particle physics)

2023/05/12 (Inv.) *"Development of Multi-Object Spectrogrphs for Galaxy Redshift Surveys"*,
Yonsei University, Korea (Astronomy Colloquium Talk)

2023/05/10 (Inv.) *"How to do Space Exploration?"*,
Seoul National University, Korea (School of Earth and Environmental Sciences Luncheon Seminar)

2023/02/06 (Inv.) *"How to do Space Exploration?"*,
The Korean Academy of Science and Technology, Korea (Y-KAST Reports Seminar)

2023/02/01 (Inv.) *"Studying Galaxy Clusters with SPHEREx"*,
Hotel Jeju Bridge Seogwipo, Korea (2023 SPHEREx BRL Workshop)

2023/01/13 (Inv.) *"Extragalactic Astronomy and Cosmology"*,
National Youth Space Center, Korea (2023 Korea Astronomy Olympiad Winter Camp)

2022/11/09 (Inv.) *"Mapping the Universe for the Study of Cosmology and Structure Formation"*,
Department of Physics @ SNU, Korea (Physics Colloquium Talk)

2022/10/24 (Inv.) *"A-SPEC: The All-sky SPECtroscopic survey of nearby galaxies"*, KIAS, Korea (The 10th KIAS Workshop on Cosmology and Structure Formation)

2022/07/14 (Inv.) *"Development of Multi-object Spectrograph for Galaxy Redshift Surveys"*,
KIAS, Korea (KIAS Summer School 2022 Extragalactic Astronomy and Cosmology)

2022/07/12 (Inv.) *"Data and Science cases with A-Spec"*,
Seoul, Korea (Focus Workshop 5: Synergy between gravitational-wave observations and redshift surveys)

2022/02/21 (Inv.) *"My work as a member of Center for Large Telescopes"*,
Yeosu, Korea (A 2022 Group Workshop of KASI Center for Large Telescopes)

2022/02/14 (Inv.) *"[A-SPEC] Focal Plane Hardware, Metrology System and Fiber Assignment Algorithm"*,
High 1 Resort, Korea (The 10th Survey Science Group Workshop)

2022/01/11 *"Galaxy Clusters with the SPHEREX All-Sky Spectral Survey"*,
Resom Forest Resort, Korea (2022 SPHEREx Legacy Science Workshop)

8.2. Public Talks

60) 2024/06/22 *"Understanding Dark Universe with Light: Dark Dark Energy"*, Gwacheon National Science Museum, Korea (Expert Talk Series)

59) 2024/06/11 *"Cosmic Address and the Future of Astronomy/Space Science"*,
Kunsan High School, Korea (KAST Special Lecture)

58) 2024/05/11 *"What is Cosmic Address?'*,
Cafe QUA, Korea (Astronomy Lecture Series for Kids)

57) 2024/04/29 *"Cosmic Address and the Future of Astronomy/Space Science"*,
Dongduk Girl's High School, Korea

56) 2024/04/27 *"Understanding our Universe with Cosmic Address"*, Seoul National University, Korea (Saturday Lecture Series of SNU College of Natural Sciences)

55) 2024/03/26 *"What Modern Astronomy Tells us about the Universe and Humans"*, Seoul National University, Korea (SNU AFP Advanced Program)

54) 2024/03/22 *"Modern Cosmology: Understanding Dark Matter and Dark Energy using the Map of the Universe"*, Yonsei University, Korea (SNU-Yonsei Astro Exchange Event)

53) 2023/11/23 *"Understanding Dark Universe with Light: Dark Matter and Dark Energy"*, Gwacheon National Science Museum, Korea (Expert Talk Series)

52) 2023/11/17 *"How to Enjoy Our Night Sky"*, Seoul National University, Korea (SNU Observatory Public Night with Fuji Film)

51) 2023/11/11 *"Understanding our Universe with Cosmic Address"*, Seoul National University, Korea (Saturday Lecture Series of SNU College of Natural Sciences)

50) 2023/11/02 *"Prospects for Korean Space Telescopes"*,
KAST, Korea (The 3rd Korea Science Journalists Association - YKAST Forum)

49) 2023/10/28 *"Understanding our Universe with Cosmic Address"*,
Jeju National University, Korea (2023 High School Conference)

48) 2023/10/13-15 *"Mun Gok Sung, I and Universe"*,
SNU Observatory, Korea (2023 Gwanak-gu Gang Gam-chan Festival)

47) 2023/10/10-24 *"Voyages through the universe"*,
SNU Pyeongchang Campus, Korea (2023 Extension College of Seoul National University)

46) 2023/07/26 *"Understanding our Universe with the Map of Galaxies"*,
Seoul National University, Korea (SNU Natural Science Experience Camp)

45) 2023/06/16 *"Cosmic Address and the Future of Astronomy/Space Science"*,
Jeil High School, Korea (KAST Special Lecture)

44) 2023/04/29 *"Understanding our Universe with Cosmic Address"*, Seoul National University, Korea (Saturday Lecture Series of SNU College of Natural Sciences)

43) 2023/04/27 *"Man and the Universe"*, Salon Unfamilar, Korea (Korean Culture Planning School Seminar)

42) 2023/04/22 *"Mapping the Universe with Dark Energy Spectroscopic Instrument (DESI)"*, Gwacheon National Science Museum, Korea (Universe Academy Talk Series)

41) 2022/12/17 *"Map of Our Universe: Balance between Dark Matter and Dark Energy"*, Gwacheon National Science Museum, Korea (Universe Academy Talk Series)

40) 2022/10/26 *"Cosmic Address and the Future of Astronomy/Space Science"*, Jeolla High School, Korea

39) 2022/10/13 *"Voyages through the Universe"*, Gwanak Library, Korea (2022 Reading Academy)

38) 2022/09/30 *"The Sky Tonight"*, Gumdan Elementary School, Korea

37) 2022/08/06 *"Modern Cosmology: Understanding Dark Matter and Dark Energy with Large-scale Structures in the Universe"*, Busan National Science Museum, Korea (IAUGA Special Lecture on Astronomy)

36) 2022/07/18 *"Cosmic Address and the Future of Astronomy/Space Science"*,
Iri High School, Korea (KAST Special Lecture)

35) 2022/07/15 *"How to make the Galaxy where we live in"*, Jeongdok Public Library, Korea (Science Touch by National Research Foundation)

9. List of Publication

- 208 refereed papers in total:
  5 submitted, 18 as first author, 36 as second author, and 149 as co-author (including 24 corresponding author)

9.1. Refereed Publications, Submitted

5. **Diverse Rotation Curves of Galaxies in a Simulated Universe: the Observed Dependence on Stellar Mass and Morphology Reproduced**,
Jeong, D., **Hwang, H. S.**, Chung, H., Yoon, Y.,
2024, ApJ, submitted

4. **Inferring Cosmological Parameters on SDSS via Domain-Generalized Neural Networks and Lightcone Simulations**,
Lee, J.-Y., et al. (**Hwang, H. S.**),
2024, ApJ, submitted

3. **Direct Evidence of a Major Merger in the Perseus Cluster**,
HyeongHan, K., et al. (**Hwang, H. S.**),
2024, NatAs, submitted (arXiv:2405.00115)

2. **ODIN: Improved Narrowband Lyα Emitter Selection Techniques for z =2.4, 3.1, and 4.5**,
Firestone, N. M., et al. (**Hwang, H. S.**),
2024, ApJ, submitted (arXiv:2312.16075)

1. **Machine-learning based Photometric Redshifts for the Galaxies in the North Ecliptic Pole Wide field: catalogs of spectroscopic and photometric redshifts**,
Kim, T., **Hwang, H. S.**, et al.,
2023, ApJS, submitted

9.2. Refereed Publications, First Author

18. **Evolution of star formation rate-density relation over cosmic time in a simulated universe: the observed reversal reproduced**,
Hwang, H. S., Shin, J., Song, H.,
2019, MNRAS, 489, 339

17. **HectoMAP and Horizon Run 4: Dense Structures and Voids in the Real and Simulated Universe**,
Hwang, H. S., Geller, M. J., Park, C., Fabricant, D. G., Kurtz, M. J., Rines, K. J., Kim, J., Diaferio, A., et al.,
2016, ApJ, 818, 106

16. **Comparing Dense Galaxy Cluster Redshift Surveys with Weak Lensing Maps**,
Hwang, H. S., Geller, M. J., Diaferio, A., Rines, J. K., Zahid, J.,
2014, ApJ, 797, 106

15. **Dust Properties of Local Dust-Obscured Galaxies with the Submillimeter Array**,
Hwang, H. S., Andrews, S. M., Geller, M. J.,
2013, ApJ, 777, 38

14. **Dust-Obscured Galaxies in the Local Universe**,
Hwang, H. S., Geller, M. J.,
2013, ApJ, 769, 116

13. **SHELS: Optical Spectral Properties of WISE 22 μm-selected Galaxies**,
Hwang, H. S., Geller, M. J., Kurtz, M., Dell'Antonio, I., Fabricant, D.,
2012, ApJ, 758, 25

12. **A WISE View of a Nearby Supercluster A2199**,
Hwang, H. S., Geller, M. J., Diaferio, A., Rines, K.,
2012, ApJ, 752, 64

11. **Activity in galactic nuclei of cluster and field galaxies in the local universe**,
Hwang, H. S., Park, C., Elbaz, D., Choi, Y.-Y.,
2012, A&A, 538, 15

10. **GOODS-Herschel: the impact of galaxy-galaxy interactions on the far-infrared properties of galaxies**,
Hwang, H. S., Elbaz, D., Dickinson, M., Charmandaris, V., Daddi, E., GOODS-Herschel team,
2011, A&A, 535, 60

9. **Evolution of Dust Temperature of Galaxies through Cosmic Time as seen by Herschel**,
Hwang, H. S., Elbaz, D., Magdis, G. E., Daddi, E., Symeonidis, M., PEP team, HerMES team, AKARI team
2010, MNRAS, 409, 75

8. **Environmental Dependence of Local Luminous Infrared Galaxies**,
Hwang, H. S., Elbaz, D., Lee, J. C., Jeong, W.-S., Park, C., Lee, M. G., Lee, H. M.,
2010, A&A, 522, 33

7. **Orbital Dependence of Galaxy Properties in Satellite Systems of Galaxies**,
Hwang, H. S., Park, C.,
2010, ApJ, 720, 522

6. **Galaxy Activity in Merging Binary Galaxy Clusters**,
Hwang, H. S., Lee, M. G.,
2009, MNRAS, 397, 2111

5. **Evidence for Morphology and Luminosity Transformation of Galaxies at High Redshifts**,
Hwang, H. S., Park, C.,
2009, ApJ, 700, 791

4. **Galaxy Orbits for Galaxy Clusters in Sloan Digital Sky Survey and 2dF Galaxy Redshift Survey**,
Hwang, H. S., Lee, M. G.,
2008, ApJ, 676, 218

3. **The Globular Cluster System of M60 (NGC 4649). II. Kinematics of the Globular Cluster System**,
Hwang, H. S., Lee, M. G., Park, H. S., Kim, S. C., Park, J.-H., Sohn, Y.-J., Lee, S.-G., Rey, S.-C., et al.
2008, ApJ, 674, 869

2. **Searching for Rotating Galaxy Clusters in SDSS and 2dFGRS**,
Hwang, H. S., Lee, M. G.,
2007, ApJ, 662, 236

1. **The ultraluminous and hyperluminous infrared galaxies in the SDSS, 2dFGRS and 6dFGS**,
Hwang, H. S., Serjeant, S., Lee, M. G., Lee, K. H., White, G. J.,
2007, MNRAS[1], 375, 115

9.3. Refereed Publications, Second Author

36. **Testing Lyman Alpha Emitters and Lyman-Break Galaxies as Tracers of Large-Scale Structures at High Redshifts**,
Im, S., **Hwang, H. S.**, et al.,
2024, ApJ, in press (arXiv:????.?????)

35. **A Deep Redshift Survey of the Perseus Cluster: Spatial Distribution and Kinematics of Galaxies**,
Kang, W., **Hwang, H. S.**, et al.,
2024, ApJS, 272, 22

34. **UPCluster-SZ: The Updated Catalog of Galaxy Clusters from the List of Planck Sunyaev-Zeldovich Sources**,
Bahk, H., **Hwang, H. S.**,
2024, ApJS, in press (arXiv:2403.03818)

33. **Understanding the Formation and Evolution of Dark Galaxies in a Simulated Universe**,
Lee, G., **Hwang, H. S.**, et al.,
2024, ApJ, 962, 129

32. **BCG alignment with the Locations of Cluster Members and the Large Scale Structure out to 10 R_{200}**,
Smith, R., **Hwang, H. S.**, et al.,
2023, MNRAS, 525, 4685

31. **The Origin of Star Formation in Early-type Galaxies Inferred from Spatially Resolved Spectroscopy**,
Lee, Y.H., **Hwang, H. S.**, et al.,
2023, ApJ, 953, 88

30. **Metallicity-PAH Relation of MIR-selected Star-forming Galaxies in AKARI North Ecliptic Pole-wide Survey**,
Shim, H., **Hwang, H. S.**, et al.,
2023, AJ, 165, 31

29. **The Evolution of Merger Fraction of Galaxies $z < 0.6$ depending on the Star Formation Mode in the AKARI NEP–Wide field**,
Kim, E., **Hwang, H. S.**, et al.,
2021, MNRAS, 507, 3113

28. **Searching for Mg II Absorbers in and around Galaxy Clusters**,
Lee, J. C., **Hwang, H. S.**, Song, H.,
2021, MNRAS, 503, 4309

27. **Star Formation Activity of Galaxies Undergoing Ram Pressure Stripping in the Virgo Cluster**,
Mun, J. Y., **Hwang, H. S.**, Lee, M. G., Chung, A., Yoon, H., Lee, J. C.,
2021, JKAS, 54, 17

[1]MNRAS: Monthly Notices of the Royal Astronomical Society

26. **A Redshift Survey of the Nearby Galaxy Cluster Abell 2107: Global Rotation of the Cluster and its Connection to Large-scale Structures in the Universe**,
Song, H., **Hwang, H. S.**, Park, C., Smith, R., Einasto, M.,
2018, ApJ, 869, 124

25. **A Study of Environmental Effects on Galaxy Spin using MaNGA data**,
Lee, J. C., **Hwang, H. S.**, Chung, H.,
2018, MNRAS, 477, 1567

24. **Demise of Faint Satellites around Isolated Early-type Galaxies**,
Park, C., **Hwang, H. S.**, Park, H., Lee, J. C.,
2018, NatAs[2], 2, 162

23. **Star Formation Activity of Barred Spiral Galaxies**,
Kim, E., **Hwang, H. S.**, Chung, H., Lee, G.-H., Park, C., Cervantes Sodi, B., Kim, S. S.,
2017, ApJ, 845, 83

22. **A Redshift Survey of the Nearby Galaxy Cluster Abell 2199: Comparison of the Spatial and Kinematic Distributions of Galaxies with the Intracluster Medium**,
Song, H., **Hwang, H. S.**, Park, C., Tamura, T.,
2017, ApJ, 842, 88

21. **The Fastest Galaxy Evolution in an Unbiased Compact Group Sample with WISE,**,
Lee, G.-H., **Hwang, H. S.**, Sohn, J., Lee, M. G.,
2017, ApJ, 835, 280

20. **To the Edge of M87 and Beyond: Spectroscopy of Intracluster Globular Clusters and Ultra Compact Dwarfs in the Virgo Cluster**,
Ko, Y., **Hwang, H. S.**, et al.,
2017, ApJ, 835, 212

19. **A Submillimeter Continuum Survey of Local Dust-Obscured Galaxies**,
Lee, J. C., **Hwang, H. S.**, Lee, G.-H.,
2016, ApJ, 833, 188

18. **SHELS: Complete Redshift Surveys of Two Widely Separated Fields**,
Geller, M. J., **Hwang, H. S.**, Dell'Antonio, I., Zahid, H. J., Kurtz, M. J., Fabricant, D. G.,
2016, ApJS, 224, 11

17. **Compact Groups of Galaxies with Complete Spectroscopic Redshifts in the Local Universe**,
Sohn, J., **Hwang, H. S.**, Geller, M. J., Diaferio, A., Rines, K. J., Lee, M. G., Lee, G.-H.,
2015, JKAS[3], 48, 381

16. **Schwarzschild Lecture 2014: HectoMAPping the Universe,** ,
Geller, M. J., **Hwang, H. S.**,
2015, AN[4], 336, 428

15. **Galaxy Evolution in the Mid-infrared Green Valley: a Case of the A2199 Supercluster**,
Lee, G.-H., **Hwang, H. S.**, Lee, M. G., Sohn, J., Shim, H., Diaferio, A.,
2015, ApJ, 800, 80

14. **The Number Density of Quiescent Compact Galaxies at Intermediate Redshift**,
Damjanov, I., **Hwang, H. S.**, Chilingarian, I., Geller, M. J.,
2014, ApJ, 793, 39

13. **Tracing Recent Star Formation of Red Early-type Galaxies out to $z \sim 1$**,
Ko, J., **Hwang, H. S.**, Im, M., Le Borgne, D., Lee, J. C., Elbaz, D.,
2014, ApJ, 791, 134

12. **SHELS: A Complete Galaxy Redshift Survey with R$\leq$20.6,** ,
Geller, M. J., **Hwang, H. S.**, Fabricant, D. G., Kurtz, M. J., Dell'Antonio, I. P., Zahid, J.,
2014, ApJS[5], 213, 35

11. **A Redshift Survey of the Strong Lensing Cluster Abell 383**,
Geller, M. J., **Hwang, H. S.**, Diaferio, A., Kurtz, M., Coe, D., Rines, J. K.,
2014, ApJ, 7pen83, 52

[2]NatAs: Nature Astronomy
[3]JKAS: Journal of Korean Astronomical Society
[4]AN: Astronomische Nachrichten
[5]ApJS: The Astrophysical Journal Supplement Series

10. **The Calibration of Star Formation Rate Indicators for WISE Selected Galaxies**,
Lee, J. C., **Hwang, H. S.**, Ko, J.,
2013, ApJ, 774, 62

9. **Activity in Galactic Nuclei of Compact Group Galaxies in the Local Universe**,
Sohn, J., **Hwang, H. S.**, Lee, M. G., Lee, G.-H., Lee, J. C.,
2013, ApJ, 771, 106

8. **The Mid-infrared and Near-Ultraviolet Excess Emissions of Quiescent Galaxies on the Red Sequence**,
Ko, J., **Hwang, H. S.**, Lee, J. C., Sohn, Y.-J.,
2013, ApJ, 767, 90

7. **AKARI Near-Infrared Spectroscopy of Luminous Infrared Galaxies**,
Lee, J. C., **Hwang, H. S.**, Lee, M. G., Kim, M., Lee, J. H.,
2012, ApJ, 756, 95

6. **Optical spectral classification of southern ultraluminous infrared galaxies**,
Lee, J. C., **Hwang, H. S.**, Lee, M. G., Kim, M., Kim, S. C.,
2011, MNRAS, 414, 720

5. **AKARI Near-Infrared Spectroscopy of SDSS-selected Blue Early-type Galaxies**,
Lee, J. H., **Hwang, H. S.**, Lee, M. G., Lee, J. C., Matsuhara, H.,
2010, ApJ, 719, 1946

4. **Herschel Unveils a Puzzling Uniformity of Distant Dusty Galaxies**,
Elbaz, D., **Hwang, H. S.**, Magnelli, B., Daddi, E., Aussel, H., PEP team, HerMES team,
2010, A&A[6], 518, L29

3. **Interactions of Galaxies in the Galaxy Cluster Environment**,
Park, C., **Hwang, H. S.**,
2009, ApJ, 699, 1595

2. **Wide-Field Survey of Globular Clusters in M31. II. Kinematics of the Globular Cluster System**,
Lee, M. G., **Hwang, H. S.**, Kim, S. C., Park, H. S., Geisler, D., Sarajedini, A., & Harris, W.E.,
2008, ApJ, 674, 886

1. **The Globular Cluster System of M60 (NGC 4649). I. CFHT MOS Spectroscopy and Database**,
Lee, M. G., **Hwang, H. S.**, Park, H. S., Park, J.-H., Kim, S. C., Sohn, Y.-J., Lee, S.-G., Rey, S.-C., et al.
2008, ApJ, 674, 857

9.4. Refereed Publications, Co-Author

149. **Chandra Survey in the AKARI North Ecliptic Pole Deep Field Optical/Infrared Identifications of X-ray Sources**,
Miyaji, T., et al.(**Hwang, H. S.**),
2024, A&A, in press (arXiv:2407.13864)

148. **SCUBA-2 Ultra Deep Imaging EAO Survey (STUDIES). V. Confusion-limited Submillimeter Galaxy Number Counts at 450 μm and Data Release for the COSMOS Field**,
Gao, Z.-K., et al.(**Hwang, H. S.**),
2024, ApJ, in press (arXiv:2405.20616)

147. **Morphology of Galaxies in JWST Fields: Initial distribution and Evolution of Galaxy Morphology**,
Lee, J. H., Park, C., **Hwang, H. S.**, Kwon, M.,
2024, ApJ, 966, 113

146. **Effects of galaxy environment on merger fraction**,
Pearson, W. J., et al.,(**Hwang, H. S.**),
2024, A&A, 686, 94

145. **A large population of strongly lensed faint submillimetre galaxies in future dark energy surveys inferred from JWST imaging**,
Pearson, J., et al. ,(**Hwang, H. S.**),
2024, MNRAS, 527, 12044

[6] A&A: Astronomy & Astrophysics

144. **The One-hundred-deg^2 DECam Imaging in Narrowbands (ODIN): Survey Design and Science Goals**,
Lee, K.-S., et al. (**Hwang, H. S.**,)
2024, ApJ, 962. 36

143. **New method to revisit the gravitational lensing analysis of the Bullet Cluster using radio waves**,
Yoon, Y., Park J.-C., **Hwang, H. S.**,
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142. **Tomographic Alcock-Paczynski Test with Redshift-Space Correlation Function: Evidence for the Dark Energy Equation of State Parameter w¿-1**,
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