

# Patrick Koch | Curriculum Vitae

Academia Sinica Institute of Astronomy and Astrophysics (ASIAA)

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🌐 <https://www.asiaa.sinica.edu.tw/people/cv.php?i=pmkoch>

## Expertise and Interests

**Structure Formation on Large and Small Scales:** star-forming molecular clouds and filaments, disks, proto-planetary systems, galactic center, clusters of galaxies

**Observations:** radio observations with single-dish telescopes and interferometers

**Microphysics:** dust polarization, magnetic fields, turbulence, shocks

**Analysis Techniques:** development of new techniques and algorithms tailored to high-resolution and high-sensitivity observations

**Telescope Commissioning and Instrumentation:** antenna optics design and specifications, control algorithms and telescope pointing

## Education

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| <b>University of Zurich</b><br><i>PhD, Physics</i><br>Thesis: Galaxy Cluster Properties from the SZ Effect and X-rays | <b>Switzerland</b><br>1999–2003 |
| <b>ETH Zurich</b><br><i>MSc, Theoretical Physics</i><br>Thesis: Cooling Flows in Clusters of Galaxies                 | <b>Switzerland</b><br>1996–1999 |
| <b>ETH Lausanne</b><br><i>BSc, Physics</i>                                                                            | <b>Switzerland</b><br>1995–1996 |
| <b>ETH Lausanne</b><br><i>BSc, Mechanical Engineering</i>                                                             | <b>Switzerland</b><br>1993–1995 |

## Positions and Employment

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|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>Research Fellow</b><br><i>Academia Sinica Institute of Astronomy and Astrophysics (ASIAA)</i>                           | <b>Taipei, Taiwan</b><br>2021/11–present |
| <b>Principle Investigator (PI) ALMA-Taiwan (AS) and co-PI ALMA-Taiwan (NSTC)</b><br><i>ASIAA</i>                           | <b>Taipei, Taiwan</b><br>2012/12–present |
| <b>PI ALMA Band 1</b><br><i>ASIAA</i>                                                                                      | <b>Taipei, Taiwan</b><br>2018/07–2025/03 |
| <b>Associate Research Fellow (with tenure)</b><br><i>ASIAA</i>                                                             | <b>Taipei, Taiwan</b><br>2016/01–2021/10 |
| <b>PI ALMA East-Asia Front-End Integration Center Taiwan</b><br><i>ASIAA</i>                                               | <b>Taipei, Taiwan</b><br>2011/07–2014/03 |
| <b>Assistant Research Fellow</b><br><i>ASIAA</i>                                                                           | <b>Taipei, Taiwan</b><br>2011/01–2015/12 |
| <b>Research Scientist</b><br><i>ASIAA</i><br>Systems Scientist and Assistant Project Scientist for cosmology project AMiBA | <b>Taipei, Taiwan</b><br>2006/04–2010/12 |

Postdoctoral Fellow  
ASIAA

Taipei, Taiwan  
2003/10–2006/03

## Languages

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- Swiss: *native*
- German: *native*
- English: *proficient (speaking, reading, writing)*
- French: *proficient (speaking, reading, writing)*
- Spanish: *advanced (speaking, reading, writing)*
- Chinese: *intermediate (speaking), basic (reading, writing)*
- Russian: *basic (speaking, reading, writing)*

## Awards and Honors

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| <b>Heaven Quest Award</b><br><i>awarding agency: Astronomical Society of the Republic of China (ASROC, Taiwan)</i><br>award to EHT Taiwan team                                                                         | 2025      |
| <b>NSTC Research Award for Postdocs</b><br><i>National Science and Technology Council (NSTC), Taiwan</i><br>awarded postdoc publication: colliding-clouds imprint on B-field (Wang, Koch et al., 2022, ApJ, 931, 115W) | 2023      |
| <b>SMA Selected Science Highlight</b><br><i>SMA Observatory</i><br>highlighted student publication: protostellar envelopes gas kinematics (Gupta et al., 2022, ApJ, 930, 67G)                                          | 2023      |
| <b>2021 NAOJ Director General's Award</b><br><i>awarding agency: National Astronomical Observatory Japan (NAOJ)</i><br>award to ASIAA's Band-1 team                                                                    | 2022      |
| <b>SMA Selected Science Highlight</b><br><i>SMA Observatory</i><br>highlighted collaboration publication: B-field and fragmentation (Palau et al., 2021, ApJ, 912, 159P)                                               | 2022      |
| <b>AAS Nova Selected Science Highlight</b><br><i>American Astronomical Society (AAS), US</i><br>highlighted collaboration publication: spiraling B-field (Sanhueza et al., 2021, ApJL, 915, L10)                       | 2021      |
| <b>JCMT Selected Science Highlight</b><br><i>JCMT Observatory</i><br>highlighted postdoc publication: gravity, velocity, B-field interplay (Wang, Koch et al., 2020)                                                   | 2021      |
| <b>2021 RAS Group Achievement Award</b><br><i>awarding agency: Royal Astronomical Society</i><br>team award to the Event Horizon Telescope Collaboration (EHTC)                                                        | 2021      |
| <b>Bruno Rossi Prize 2020</b><br><i>awarding agency: American Astronomical Society (AAS), US</i><br>team award to the EHTC                                                                                             | 2020      |
| <b>Einstein Medal 2020</b><br><i>awarding agency: Albert-Einstein Society, Switzerland</i><br>team award to the EHTC                                                                                                   | 2020      |
| <b>Academia Sinica Career Development Award</b><br><i>awarding agency: Academia Sinica, Taiwan</i><br>national research award for 5-year independent funding                                                           | 2015–2019 |
| <b>Science and Technology Contribution Award</b><br><i>awarding agency: CTCI Foundation, Taiwan</i><br>team award to ASIAA's black hole research team                                                                  | 2019      |
| <b>NSF Diamond Achievement Award</b><br><i>awarding agency: National Science Foundation (NSF), US</i>                                                                                                                  | 2019      |

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| team award to the EHTC                                                                                |      |
| <b>2020 Breakthrough Prize in Fundamental Physics</b>                                                 | 2019 |
| awarding agency: Breakthrough Prize Foundation, US                                                    |      |
| team award to the EHTC                                                                                |      |
| <b>MoST Research Award for Postdocs</b>                                                               | 2019 |
| Ministry of Science and Technology (MoST), Taiwan                                                     |      |
| awarded postdoc publication: B-field in galactic center (Hsieh, Koch et al., 2018, ApJ, 862, 150H)    |      |
| <b>AAS Nova Selected Science Highlight</b>                                                            | 2018 |
| American Astronomical Society (AAS), US                                                               |      |
| highlighted publication: B-field-channeled accretion (Koch et al., 2018, ApJ, 855, 39K)               |      |
| <b>Academia Sinica Significant Research Achievement</b>                                               | 2018 |
| Academia Sinica, Taiwan                                                                               |      |
| awarded postdoc publication: B-field in galactic center (Hsieh, Koch et al., 2018, ApJ, 862, 150H)    |      |
| <b>JCMT Selected Science Highlight</b>                                                                | 2018 |
| JCMT Observatory                                                                                      |      |
| highlighted postdoc publication: B-field in galactic center (Hsieh, Koch et al., 2018 ApJ, 862, 150H) |      |
| <b>Academia Sinica Significant Research Achievement</b>                                               | 2012 |
| Academia Sinica, Taiwan                                                                               |      |
| awarded publication: new B-field measurement technique (Koch et al., 2012, ApJ, 747, 79)              |      |
| <b>Invited Lecturer</b>                                                                               | 2011 |
| Laboratoire d'Astrophysique de Bordeaux, France                                                       |      |

## Publication Summary

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266 publications in total – complete publication list in separate document (August 1, 2026)

- 217 refereed science publications
- 32 publications in instrumentation proceedings and white papers
- 17 publications in proceedings

publication statistics (August 1, 2026)

- citations: 31,931 (google scholar)      26,567 (ads)
- h-index: 68 (google scholar)      60 (ads)

## Observing Experience Summary

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more than 100 accepted observing proposals with students, postdoctoral fellows, and as a PI

- **radio – single dish:** JCMT, SMT, APEX, IRAM-30m, Nobeyama-45m, GBT, CSO
- **radio – interferometer:** ALMA, SMA, JVLA, NOEMA
- **optical / NIR:** CFHT, Subaru, VLT, JWST

## Achievements and Highlights

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|                                                                               |      |
|-------------------------------------------------------------------------------|------|
| <b>ALMA Band-1 Available to the Community</b>                                 | 2023 |
| Band-1 offered for the first time in the 2023 ALMA cycle-10 proposal call     |      |
| <b>ALMA Band-1 First Light</b>                                                | 2021 |
| celestial first light with Band-1 receiver installed on ALMA antenna in Chile |      |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <b>ALMA Band-1 Manufacturing Readiness Review</b><br><i>official ALMA approval to go ahead with manufacturing of 73 Band-1 receivers (35-50 GHz)</i>                 | 2019 |
| <b>Greenland Telescope First Light in Thule</b><br><i>Greenland Telescope (GLT) commissioning with artificial radio source, GLT included in EHT array</i>            | 2017 |
| <b>Completion of East-Asia Front-End Integration Center in Taiwan</b><br><i>assembly, integration, and testing of multiple receiver bands for 26 ALMA front-ends</i> | 2014 |
| <b>First AMiBA Publications</b><br><i>7 first papers describing array, instrumentation, and first SZE observations of cluster sample</i>                             | 2009 |
| <b>Commissioning of AMiBA 7-element Array</b><br><i>enabling first cosmological SZE observations with the AMiBA hexapod telescope</i>                                | 2006 |

## Most Important Publications

|                                                                                                                                                                                                 |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <b>Filamentary Network and Magnetic Field Structure</b> (Wang, Koch et al. 2024, ApJ, 962, 136)<br><i>magneto-gravitational configurations leading to two different types of filaments</i>      | 2024 |
| <b>First Detection of B-field-stabilized Streamers</b> (Koch et al. 2022, ApJ, 940, 89)<br><i>multi-scale picture of gravity and magnetic field establishing stability criterion</i>            | 2022 |
| <b>High-Resolution Galactic Center Mosaic</b> (Hsieh, Koch et al. 2021, ApJ, 913, 94H)<br><i>600-pointing mosaic with ALMA resolving network of streamers and (sub-)filaments</i>               | 2021 |
| <b>Fragmentation Modes</b> (Tang, Koch et al. 2019, ApJ, 878, 10T)<br><i>fragmentation modes explained by different interplay between gravity, B-field, and turbulence</i>                      | 2019 |
| <b>High-Resolution Polarization Observation</b> (Koch et al. 2018, ApJ, 855, 39K)<br><i>detected network of accreting channels guided by magnetic field in high-mass star formation</i>         | 2018 |
| <b>Ion-Neutral Drift Velocity Constraint</b> (Yen, Zhao, Koch et al. 2018, 615A, 58Y)<br><i>first measurement of ion-neutral drift velocity to constrain ambipolar diffusion</i>                | 2018 |
| <b>Magnetic Field around Galactic Center</b> (Hsieh, Koch et al. 2018, ApJ, 862, 150H)<br><i>detection and modeling of B-field along streamers and circumnuclear disk in galactic center</i>    | 2018 |
| <b>New Technique to Analyze Disk Velocity Structures</b> (Yen, Koch et al. 2016, 832, 204Y)<br><i>development of stacking technique to search for non-Keplerian motion and embedded objects</i> | 2016 |
| <b>50-source Sample Magnetic Field Analysis</b> (Koch et al. 2014, ApJ, 797, 99)<br><i>statistical evidence for locally variable magnetic field importance</i>                                  | 2014 |
| <b>New Method to Measure Magnetic Field Strength</b> (Koch et al. 2012, ApJ, 747, 79)<br><i>development of new technique using dust polarization observations</i>                               | 2012 |
| <b>AMiBA Hexapod Telescope</b> (Koch et al. 2009, ApJ, 694, 1670)<br><i>commissioning of the largest hexapod telescope</i>                                                                      | 2009 |

## Major Roles in International Radio Telescope Projects

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|-------------------------------------------------------------------|-----------------|
| <b>ALMA (Atacama Large Millimeter/submillimeter Array)</b> .....  |                 |
| ○ PI ALMA-Taiwan (AS) and co-PI ALMA-Taiwan (MoST → NSTC)         | 2012/12–present |
| ○ East-Asia ALMA Science Advisory Committee (EASAC)               | 2011/07–present |
| ○ PI ALMA Band-1                                                  | 2018/07–2025/03 |
| ○ co-lead ALMA Band-1 management, development and science team    | 2013/01–2018/06 |
| ○ PI ALMA East-Asia Front-End Integration Center (EA-FEIC) Taiwan | 2011/07–2014/03 |
| ○ member ALMA nutator development team                            | 2011/07–2013/12 |
| ○ project manager ALMA-Taiwan                                     | 2011/07–2012/12 |

**SMA (Submillimeter Array)**.....  
 ◦ member SMA Polarization Legacy Team 2012/12–present

**GLT (Greenland Telescope)**.....  
 ◦ member EHT (Event Horizon Telescope) collaboration through GLT 2017/01–present  
 ◦ member testing, commissioning, science verification 2014/06–present  
 ◦ co-lead GLT single-dish science working group 2013/01–present  
 ◦ lead GLT systems specifications 2011/01–present  
 ◦ member GLT core team 2011/01–present

**AMiBA (Array for Microwave Background Anisotropy)**.....  
 ◦ supervisory role for intensity mapping instrument 2015/12–2021/10  
 ◦ systems scientist / assistant project scientist 2006/04–2010/12  
 ◦ lead development of platform phase correction scheme 2007/01–2009/12  
 ◦ lead design of 1.2m antenna for 13-element array 2006/01–2008/12  
 ◦ co-lead testing, commissioning, science verification of 7-element array 2004/04–2007/12  
 ◦ lead telescope pointing and development of hexapod mount control 2004/04–2006/12

## International Collaborations and Large Programs

**STREAMS** 2023–present  
*approved SMA key science program (>100 hours); star formation energetics across multiple scales*

**METIS ELT** 2023–present  
*member METIS science team*

**eDISK** 2019–present  
*approved ALMA large program (90 hours); substructures in embedded planetary disks*

**ALMAGAL** 2019–present  
*approved ALMA large program (200 hours); fragmentation study in 1000 clumps*

**Galactic Center (GC) Mosaics** 2018–present  
*ALMA GC mapping in multiple transitions (>100 hours with 12m and total-power array)*

**EHT** 2017–present  
*member Event Horizon Telescope (EHT) collaboration through GLT*

**BISTRO** 2016–present  
*approved JCMT/POL-2 large program (600 hours); B-field / polarization survey*

## Advisory and Review Committees

◦ JCMT Board (vice-chair: 2025/09–present) 2025–present  
 ◦ IRAM Program Committee 2022–present  
 ◦ East-Asia ALMA Science Advisory Committee 2011–present  
 ◦ ERC Grant external reviewer 2026  
 ◦ ALMA DDT Standing Committee 2024–2025  
 ◦ ESO ALMA Technical Development reviewer 2024 / 2025  
 ◦ UK-STFC Award applications reviewer 2023  
 ◦ external science assessor ALMA large programs (cycle 10) 2023  
 ◦ reviewer ALMA proposals DPR (cycle 8, 9, 10, 11, 12) 2021–2025

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|--------------------------------------------------------------------|--------------|
| ○ reviewer MMT / Magellan proposals (2021B, 2022A, 2022B)          | 2021–2022    |
| ○ chair Time Allocation Committee (TAC) Submillimeter Array (SMA)  | 2018–2020    |
| ○ member TAC Canada-France-Hawaii Telescope (CFHT)                 | 2017–2019    |
| ○ reviewer ALMA-VLBI proposals (cycle 4)                           | 2016         |
| ○ external reviewer James Clerk Maxwell Telescope (JCMT) proposals | 2016–present |
| ○ referee for ApJ, PASP, ApJL, A&A, AJ                             | 2010–present |

## Conference and Workshop Committees

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|--------------------------------------------------------------------------------------------|---------|
| ○ Missing Links in Planet Formation: From Embedded Disks to Planets (Taipei, Taiwan) – LOC | 2026/11 |
| ○ ALMA2040 Science and Technology Perspectives (Tokyo, Japan) – SOC                        | 2026/07 |
| ○ JCMT Users Meeting (Taipei, Taiwan) – SOC / LOC-chair                                    | 2026/06 |
| ○ B-Fields 2024: Magnetic Fields from Clouds to Stars (Tokyo, Japan) – SOC                 | 2024/03 |
| ○ Probing the Universe at Higher Resolution (New Taipei City, Taiwan) – SOC / LOC co-chair | 2023/10 |
| ○ East-Asian ALMA Science Workshop (New Taipei City, Taiwan) – LOC                         | 2023/02 |
| ○ ALMA 2030 Vision: Design Considerations (Tokyo, Japan; virtual) – SOC                    | 2020/10 |
| ○ Science with the Submillimeter Array (Taipei, Taiwan) – SOC co-chair / LOC               | 2019/11 |
| ○ Taiwan-Russia Polarization Workshop (Taipei, Taiwan) – SOC                               | 2018/10 |
| ○ US-Taiwan ALMA Science Conference: B-Fields or Turbulence? (Hsinchu, Taiwan) – SOC       | 2018/02 |
| ○ East-Asian ALMA Science Workshop (Deajeon, Korea) – SOC                                  | 2017/11 |
| ○ ALMA Band-1 Science Workshop (Taipei, Taiwan) – SOC                                      | 2017/01 |
| ○ TIARA Summer School on Radio Astronomy (Taipei, Taiwan) – SOC                            | 2016/10 |
| ○ East-Asian ALMA Science Workshop (Taipei, Taiwan) – SOC                                  | 2013/09 |
| ○ ALMA Rocks 2013: From Dust to Rocks to Planets (Hawaii, US) – SOC                        | 2013/04 |
| ○ Polarization Workshop 2012 (Taipei, Taiwan) – SOC / LOC                                  | 2012/02 |
| ○ Second Asian Radio Astronomy School (Taipei, Taiwan) – LOC                               | 2008/08 |
| ○ AMiBA Workshop (Taipei, Taiwan) – organizer                                              | 2007/09 |
| ○ Millimeter/Sub-Millimeter Interferometry School (Taipei, Taiwan) – LOC / Lecturer        | 2006/07 |
| ○ AMiBA Workshop (Hawaii, US) – organizer                                                  | 2005/09 |

## ASIAA Committee Charges

|                                                         |                 |
|---------------------------------------------------------|-----------------|
| ○ project evaluation committee (chair: 2022/09–present) | 2012/09–present |
| ○ faculty search committee                              | 2018/11–2025/01 |
| ○ ombudsmen committee                                   | 2022/09–2024/09 |
| ○ standing executive committee                          | 2014/09–2020/09 |
| ○ space committee                                       | 2017/01–2018/12 |
| ○ colloquium committee                                  | 2011/01–2014/09 |

## Staff Supervision

|                                                                   |                 |
|-------------------------------------------------------------------|-----------------|
| <b>Postdoctoral Fellows Supervised</b> .....                      |                 |
| <b>Piyali Saha</b>                                                | 2025/04–present |
| <i>Magnetic Fields Analysis across Multiple Scales</i>            |                 |
| <b>Jia-Wei Wang</b> (→ AS Postdoc Fellow → EAO Fellow in Hawaii)  | 2019/09–2024/06 |
| <i>Magnetic Fields and Gas Dynamics in Star-Forming Filaments</i> |                 |
| <b>Natsuko Izumi</b> (→ NAOJ faculty)                             | 2022/02–2024/03 |
| <i>Infrared Dark Clouds, Star Formation in Outer Galaxy</i>       |                 |

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| <b>Ming-Yi Lin</b> (→ ALMA support scientist at ASIAA)<br><i>Intensity Mapping with AMiBA</i>                                                                        | 2018/07–2019/06 |
| <b>Pei-Ying Hsieh</b> (→ AS Postdoc Fellow → ESO-ALMA Fellow in Chile → NAOJ faculty)<br><i>Galactic Center Dynamics</i>                                             | 2015/09–2019/12 |
| <b>Hsi-Wei Yen</b> (→ AS Postdoc Fellow → ESO Fellow in Garching → ASIAA faculty)<br><i>Magnetic Fields, Neutral, and Ionized Gas Dynamics in Protostellar Disks</i> | 2013/10–2016/07 |
| <b>Chih-Wei Locutus Huang</b> (→ GLT support scientist at ASIAA)<br><i>Cluster Cosmology with the Expanded AMiBA</i>                                                 | 2012/09–2016/03 |

### Visiting Scholars Supervised

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|---------------------------------------------------|-----------------|
| <b>Jia-Wei Wang</b> (Magnetic Field Observations) | 2024/06–2024/07 |
| <b>Pei-Ying Hsieh</b> (Galactic Center Dynamics)  | 2023/04–2023/08 |

### Project Support Scientists Supervised

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|-----------------------------------------------------------------------|-----------------|
| <b>Kai-Yang Lin</b> (AMiBA intensity mapping support scientist)       | 2017/01–2022/12 |
| <b>Yu-Wei Victor Liao</b> (AMiBA intensity mapping support scientist) | 2017/01–2020/03 |
| <b>Oscar Morata</b> (ALMA Band-1 project scientist)                   | 2014/04–2018/10 |

### Students Supervised

|                                                                                                                               |                                            |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>Chen Wei-An</b> (summer student project)<br><i>On the Fragmentation in Star-Forming Filaments</i>                          | 2020/07–2020/08<br>ASIAA                   |
| <b>Lee Han-Tsung</b> (summer student project)<br><i>On the Fragmentation in Star-Forming Filaments</i>                        | 2020/07–2020/08<br>ASIAA                   |
| <b>Shen Bo-Ting</b> (master thesis)<br><i>Structures in Proto-planetary Systems Observed with ALMA</i>                        | 2016/09–2019/05<br>ASIAA/NTU, Taiwan       |
| <b>Tsai Yi-Shan</b> (student project)<br><i>Planet Formation in Circumstellar Disks</i>                                       | 2018/11–2019/04<br>ASIAA                   |
| <b>Añez Nacho</b> (graduate student)<br><i>The Magnetic Field in the Fragmentation Process in G33</i>                         | 2018/06–2018/08<br>CSIC-IEEC (Spain)/ASIAA |
| <b>Chou Hsuan-Gu</b> (undergraduate student)<br><i>SMA and Single-Dish Analyses of Velocity and Magnetic Field Structures</i> | 2014/12–2016/08<br>ASIAA/NTU, Taiwan       |
| <b>Juárez Rodríguez Carmen</b> (graduate student)<br><i>Molecular Lines and Polarization in the Molecular Cloud NGC 6334V</i> | 2014/06–2014/08<br>CSIC-IEEC (Spain)/ASIAA |
| <b>Liao Wei-Ting</b> (research assistant)<br><i>Analysis of Cloud and Disk Velocity Patterns</i>                              | 2013/12–2014/07<br>ASIAA                   |
| <b>Juárez Rodríguez Carmen</b> (NSC summer student)<br><i>Polarization Analysis of the Molecular Cloud NGC 6334V</i>          | 2013/06–2013/08<br>ASIAA                   |
| <b>Hoang Ngoc Duy</b> (research assistant)<br><i>Connection between SZE and Synchrotron Emission in Clusters of Galaxies</i>  | 2012/09–2014/01<br>ASIAA                   |
| <b>Chang Yu-Yen</b> (master thesis)<br><i>Influence of Large-Scale Filaments on Cluster SZE Cosmology</i>                     | 2007/08–2008/10<br>ASIAA/Chalmers (Sweden) |
| <b>Tsai Meng-Yuan</b> (summer student project)<br><i>Power Spectrum in Star-Forming Regions</i>                               | 2008/06–2008/08<br>ASIAA                   |
| <b>Chang Yu-Yen</b> (summer student project)<br><i>Modeling of AMiBA Platform Deformation-Induced Phase Correction</i>        | 2007/06–2007/08<br>ASIAA                   |

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| <b>Ho I-Ting</b> (undergraduate student)<br><i>AMiBA Hexapod Implementation of Reference Pointing Mode</i>   | 2006/10–2007/06<br>NTU, Taiwan                        |
| <b>Yang Yi-Jung</b> (research assistant)<br><i>Pressure Power Spectra for Turbulence in Galaxy Clusters</i>  | 2006/09–2007/07<br>ASIAA                              |
| <b>Ho I-Ting</b> (summer student project)<br><i>Fringe Analysis and Preparation for Dish Radio Alignment</i> | 2006/06–2006/08<br>ASIAA                              |
| <b>Yang Yi-Jung</b> (summer student project)<br><i>Turbulence in Galaxy Clusters and the SZ Effect</i>       | 2005/06–2005/08<br>ASIAA                              |
| <b>Blattner Marcel</b> (master thesis)<br><i>Mergers in Galaxy Clusters and the SZ Effect</i>                | 2002/09–2003/09<br>University of Zurich (Switzerland) |

## A — Refereed Publications — Science

## B — Technical Proceedings, White Papers (Instrumentation, Engineering)

## C — Publications in Proceedings

## A — Refereed Publications — Science

- [217] [“Magnetic Fields in Massive Star-Forming Regions \(MagMaR\). VIII. Universal Dragging by Gravity”](#)  
Junhao Liu, P. Sanhueza, P. Saha, I.W. Stephens, J.-h. Kang, Q. Zhang, P.C. Cortés, **P.M. Koch**, J.M. Jackson, J. Hwang, J.M. Girart, M.T. Beltrán, H.-R.V. Chen, C.-Y. Law, K. Morii, F. Xu, F.A. Olguin, C. Eswaraiah, S. Li, Y. Cheng, M. Fernández-López, X. Lu, S. Panigrahy, and Q. Luo  
2026, *ApJ*, *submitted*
- [216] [“Magnetic Fields in Massive Star-forming Regions \(MagMaR\) IX: Gravity-driven Collapse in G336.01-0.82”](#)  
P. Sandhyarani, C. Eswaraiah, J.M. Girart, P. Sanhueza, P. Saha, F.A. Olguin, **P.M. Koch**, I.W. Stephens, Q. Zhang, M. Fernández-López, M.T. Beltrán, P.C. Cortés, H.-R.V. Chen, L. Zapata, J. Hwang, J. Kang, F. Xu, E.J. Chung, S. Li, Y. Cheng, L. Dewangan, K. Morii, and O.R. Jadhav  
2026, *ApJ*, *submitted*
- [215] [“MagMaR Visits GGD27. Magnetic Field Overrun by Gravity in Accretion Streamers.”](#)  
M. Fernández-López, J.A. López-Vázquez, J.M. Girart, P. Sanhueza, L.A. Zapata, P.C. Cortés, H. Beuther, G. Busquet, I.W. Stephens, K. Morii, N. Añez-López, C.-F. Lee, Q. Zhang, M.T. Beltrán, S. Curiel, F.A. Olguin, E.J. Chung, P. Saha, S. Li, **P.M. Koch**, J. Hwang, C.-Y. Law, and J.-H. Kang  
2026, *A&A*, *accepted*
- [214] [“First VLBI Fringe Detection at 690 GHz”](#)  
M.-T. Chen et al.  
2026, *PASP*, *accepted*
- [213] [“Multi-Scale Magnetic Field Observations Reveal how Colliding Flows Trigger Star Formation”](#)  
J.-W. Wang, **P.M. Koch**, H.-Y.B. Liu, V.J.M. Le Gouellec, Y.-X. Lin, Q. Zhang, and S.-P. Lai  
2026, *ApJ*, 1005, 139 --- [\[ads\]](#)
- [212] [“Systematic Underestimation of Polarisation Angle Dispersion and its Consequences for Magnetic Field Strength Estimates in Star-forming Regions”](#)  
S.D. Clarke, Y.-W. Tang, **P.M. Koch**, G.A. Fuller, and D. Xi  
2026, *ApJ*, 1003, 220C --- [\[ads\]](#)
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- [171] “Early Planet Formation in Embedded Disks (eDisk) XV: Influence of Magnetic Field Morphology in Dense Cores on Sizes of Protostellar Disks”  
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- [163] “Filamentary Network and Magnetic Field Structures Revealed with BISTRO in the High-Mass Star-Forming Region NGC2264 – Global Properties and Local Magneto-Gravitational Configurations”  
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M.L.R. van 't Hoff, J.J. Tobin, Z.-Y. Li, N. Ohashi, J.K. Jørgensen, Z.-Y.D. Lin, Y. Aikawa, Y. Aso, I. de Gregorio-Monsalvo, S. Gavino, I. Han, **P.M. Koch**, W. Kwon, C.W. Lee, J.-E. Lee, L.W. Looney, S. Narayanan, A. Plunkett, J. Sai (I. Choi), A. Santamaría-Miranda, R. Sharma, P.D. Sheehan, S. Takakuwa, T.J. Thieme, J.P. Williams, S.-P. Lai<sup>4</sup>, N.T. Phuong, and H.-W. Yen  
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J. Liu, Q. Zhang, **P.M. Koch**, H.-Y.B. Liu, Z.-Y. Li, S. Li, J.M. Girart, H.-R.V. Chen, T.-C. Ching, P.T.P. Ho, S.-P. Lai, K. Qiu, R. Rao, and Y.-W. Tang  
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P. Martin-Cocher, J. Ford, **P. M. Koch**, C.-W. Ni, W.-L. Chen, M.-T. Chen, P. Raffin, C.-L. Ong, P.T.P Ho, and A. Symmes  
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**P.M. Koch**, M.Kesteven, Y.-Y.Chang, Y.-D.Huang, P.Raffin, K.-Y.Chen, G.Chereau, M.-T.Chen, P.T.P.Ho, C.-W.Huang, F. Ibanez-Romano, H.Jiang, Y.-W.Liao, K.-Y.Lin, G.-C.Liu, S.Molnar, H.Nishioka, K.Umetsu, F.-C.Wang, J.-H.P.Wu, P.Altamirano, C.-H.Chang, S.-H.Chang, S.-W.Chang, C.-C.Han, D.Kubo, C.-T.Li, P.Martin-Cocher, and P.Oshiro  
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