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Personal Information

Current status: Postdoctoral Researcher
Gender: Male
Year of birth: 1988
Citizenship: P.R. China
Languages: Chinese (native), English (full professional proficiency),
French (elementary proficiency)

Employment

Postdoc, Chalmers University of Technology, Göteborg, Sweden 2021.11 – present
European Southern Observatory (ESO) Fellow, Santiago, Chile 2017.11 – 2021.10
(50% independent research + 50% ALMA duty)

Education

- Institut d'Astrophysique Spatiale, Université Paris-Saclay, France 2014 – 2017
(Co-tutelle) PhD degree in Astrophysics, *Diploma awarded in January 2018*
Supervisor: Alain Omont, Alexandre Beelen
- Purple Mountain Observatory, Chinese Academy of Sciences, P.R. China 2013 – 2017
(Co-tutelle) PhD degree in Astrophysics, *Diploma awarded in January 2018*
Supervisor: Yu Gao
- Astronomy Department, Beijing Normal University, P.R. China 2010 – 2013
Master's degree in Astrophysics, *Diploma awarded in July 2013*
Supervisor: Yu Gao, Biwei Jiang
- Astronomy Department, Beijing Normal University, P.R. China 2006 – 2010
Bachelor's degree in Astronomy, *Diploma awarded in July 2010*

Computer Skills

Languages: Shell (Unix/Linux), Python (NumPy, Pandas, Matplotlib, etc.), Julia, IDL, FORTRAN, MATLAB
Operating systems: GNU/Linux (CentOS, openSUSE, Ubuntu, etc.), macOS, Windows
Astronomy Softwares: GILDAS, Starlink, CARTA, CASA, HIPE, TOPCAT, DS9

Research Interests

- Obscured galaxy nuclei near and far Current
- Submillimeter water maser in high-redshift galaxies Current
- Observations of the interstellar medium in submillimeter galaxies Current
- Millimeter and submillimeter spectral line surveys at high redshift Current
 - *SUNRISE* – Submillimeter molecUlar liNe suRveys in dIstant duSty galaxiEs
- Submillimeter H₂O lines as the ISM tracers in dusty galaxies near and far Current
- Ph.D. Thesis* • Physical conditions of the interstellar medium in high-redshift submillimetre bright galaxies (*ADS record*) 2013–2017
- Master Thesis* • Water vapor in galaxies near and far 2011–2013
- Bachelor Thesis* • Cold dust in nearby galaxies 2009–2010

References

(alphabetical order)

- **Aalto, Susanne:** Professor, Chalmers University of Technology, Sweden
- **Beelen, Alexandre:** Associate Astronomer, Laboratoire d'Astrophysique de Marseille, France
- **Cox, Pierre:** Senior Scientist, Institut d'Astrophysique de Paris, France
- **Gao, Yu***: Professor, Xiamen University, China
- **González-Alfonso, Eduardo:** Professor, University of Alcalá, Spain
- **Impellizzeri, Violette:** Program manager, Allegro ARC, Leiden Observatory, the Netherlands
- **Omont, Alain:** Emeritus Senior Scientist, Institut d'Astrophysique de Paris, France

*Professor Yu Gao sadly *passed away* in 2022 at the age of 59.

**31 accepted
PI Proposals
531 h in total**
(^{A/B}: A/B-rated)

- The Atacama Large Mm/submm Array (**ALMA**), **7 proposals, 63.9 h^{12m} + 50 h^{7m}**. since 2017
 - 2017.A.00053.S (ACA observatory filler program, **50 h**);
 - 2018.1.00861.S^B(EU, **10.4 h**), 2018.1.00797.S^B(EU, **6.6 h**), 2018.1.01710.S(EU, **9.1 h**);
 - 2019.1.00205.S^B(EU, **23.2 h**), 2019.1.00533.S^B(EU, **4.8 h**), 2019.1.00310.S(EU, **8.0 h**);
 - 2022.1.00172.S(EU, **31.8 h**);
- The NOthern Extended Millimeter Array (**NOEMA**), **12 proposals, 138 h**. since 2013
 - W0B3^B, S14CT^B, S15CT^B, W15EQ^B, S16CG^B, S16CF^B, S16BT^B, W16DQ^B, W16DO^B, S18DC^A, S18CT^A, W18EB^A, W22DT^B;
- The IRAM-30m telescope (**IRAM-30m**), **3 proposals, 76 h**. since 2015
 - 079-15^A, 196-15^B, 076-16^A;
- The Karl G. Jansky Very Large Array (**JVLA/NRAO**), **3 proposals, 47 h**. since 2014
 - 14B-259^B, 15B-177, 18B-190;
- The Atacama Pathfinder EXperiment (**APEX/ESO**) telescope, **2 proposal, 55 h**. since 2016
 - 097.B-0914^B (SEPIA-5), 103.B-0471^A (SEPIA-9);
- The Green Bank Telescope (**GBT/GBO**) telescope, **2 proposal, 63 h**. since 2020
 - 21A-093^A (W-band); 22B-020^A (W-band)

> 110 accepted proposals as a co-I, including:

ALMA (40 proposals, 7 A + 13 B + 20 C), NOEMA (51, including 1 large program, **z-GAL**), JVLA (5: 15B-320, 17A-151, 18A-340, 18B-190, 22A-211), GTC(1), Spitzer (1), VLT (2, KMOS), IRAM-30m (6), APEX (2), JCMT (7, including 4 large programs, **JINGLE**, **MALATANG**, **AWESOME** and **RAGERS**) and GMRT (1 proposal).

**Observing
Experience
(over 1000 h)**

- The IRAM 30m telescope (IRAM30/IRAM), 2013–2016: > 100 h;
- The James Clerk Maxwell Telescope (JCMT/EAO), 2016: > 100 h;
- The ALMA Observatory (ALMA/JAO), 2018–present: (AoD) > 1000 h.

**Professional
Service**

- Referee for scientific journals: *ApJ*, *A&A*, *PASJ*;
- *HST* Expert external proposal reviewer;
- Individual reviewer for the Science and Technology Facilities Council (STFC, UK);
- Member of the ESO (Chile) Fellowship Selection Committee (2019–2020);
- Member of the ALMA (JAO) Post-Doctoral Fellow Selection Committee (2019);
- Technical Secretary of the ALMA Proposal Review meeting, 2018 (Cycle 6) – 2021 (Cycle 8);
- Co-organiser of the **ALMA proposal workshop at ESO** (2018, 2021);
- Organisers of the **CONquest 2023 workshop** (2023)

**Teaching
&
Mentorship**

- **Malte Brinch** (PhD student), Cosmic Dawn Center (DAWN) DTU-space (Denmark),
The excitation of [C I] lines in high-redshift dusty galaxies; 2021/2022
- **Daysi Quinatoa** (PhD student), Universidad de Valparaíso (Chile),
APEX observation of the submillimeter H₂O emission in nearby galaxies; 2021/2022
- **Nina Grant** (Undergraduate student), Princeton International Internship program,
Complete the rotation curve of NGC 7528 with neutral carbon emission; June–August 2019
- Lecture, Advance topics of astrophysics and astrobiology, Universidad Andrés Bello, Chile;
The ISM in high-redshift dusty star-forming galaxies. 2nd Semester 2019

**Refereed
Publications
in Journals**
(¹: 1st/2nd author)
NASA/ADS Lib.

*NASA/ADS citation metrics: 763 citations in total, including 222 citations of the 1st-author papers;
The most-cited 1st-author paper has 84 citations; h-index = 16, h-index/(years since PhD defence) = 3.2*

40. **The SCUBA-2 Large eXtragalactic Survey: 850 μ m map, catalogue and the bright-end number counts of the XMM-LSS field**
T. K. Garratt, J. E. Geach, Y. Tamura, K. E. K. Coppin, M. Franco, Y. Ao, C. -C. Chen, C. Cheng, D. L. Clements, Y. S. Dai, ..., **C. Yang**, 2023, **MNRAS accepted** (arXiv: 2301.10801)
39. **A survey of CO(1–0) emission in high-*z* *Herschel* selected galaxies**
F. Stanley, B. M. Jones, D. Riechers, **C. Yang**, S. Berta, P. Cox, T.J.L.C. Bakx et al., 2023, **ApJ accepted** (arXiv: 2301.12976)
38. **The Bright Extragalactic ALMA Redshift Survey (BEARS) II: Millimetre photometry of gravitational lens candidates**
G. J. Bendo, S. A. Urquhart, S. Serjeant, T. Bakx, ..., **C. Yang**, A. Young 2023, **MNRAS accepted** (arXiv: 2301.02584)

37. **The Opaque Heart of the Galaxy IC 860: Analogous Protostellar, Kinematics, Morphology, and Chemistry**
M. D. Gorski, S. Aalto, S. König, C. Wethers, [C. Yang](#), S. Muller, S. Viti, J. H. Black, K. Onishi, M. Sato 2023, [A&A accepted \(arXiv: 2210.04499\)](#)
36. **The importance of radiative excitation on the H₂O submillimeter emission lines in galaxies**
E. González-Alfonso, Jacqueline Fischer, Javier R. Goicoechea, [Chentao Yang](#), Miguel Pereira-Santaella and Kenneth P. Stewart 2022, [A&A](#), 666, L3
35. **Gas properties in the Early Universe deciphered from spectral line surveys of high-*z* objects: The Cloverleaf Quasar**
Michel Guélin, Carsten Kramer, [Chentao Yang](#), Belen Tercero, and Jose Cernicharo 2022, [EPJ Web of Conferences](#) 265, 00024
34. **Dense Gas and Star Formation in Nearby Infrared Bright Galaxies: APEX survey of HCN and HCO⁺ *J* = 2 → 1**
Jing Zhou, Zhi-Yu Zhang, Yu Gao, Junzhi Wang, Yong Shi, Qiusheng Gu, Fei Li, [Chentao Yang](#), Tao Wang and Qing-hua Tan 2022, [ApJ](#), 936, 58;
33. **Massive molecular gas reservoir in a luminous sub-millimeter galaxy during cosmic noon**
Bin Liu, N. Chartab, H. Nayyeri, A. Cooray, [C. Yang](#), D. A. Riechers, M. Gurwell, Zong-hong Zhu,... and P. van der Werf 2022, [ApJ](#), 929, 41;
32. **Bright Extragalactic ALMA Redshift Survey (BEARS) I: redshifts of bright gravitationally-lensed galaxies from the Herschel ATLAS**
S. A. Urquhart, G. J. Bendo, S. Serjeant, T. Bakx, M. Hagimoto, P. Cox, R. Neri, M. Lehnert, ..., [C. Yang](#), A.J. Young 2022, [MNRAS](#), 551, 3017;
31. **The ramp-up of interstellar medium enrichment at *z* > 4;** ([ESO Press Release](#), [ALMA Press Release](#), [Phys.org News](#), [Daily Mail news](#), [CNN news](#))
M. Franco, K. E. K. Coppin, J. E. Geach, C. Kobayashi, S. C. Chapman, [C. Yang](#), E. González-Alfonso, J. S. Spilker, A. Cooray, M. J. Michałowski 2021, [Nature Astronomy](#);
30. **An ACA 1mm survey of HzRGs in the ELAIS-S1: survey description and first results;**
Hugo G. Messias, Evanthia Hatziminaoglou, Pascale Hibon, Israel Matute, Tony Mroczkowski, José M. Afonso, Edward Fomalont, ..., [Chentao Yang](#) 2021, [MNRAS](#), 508, 5259;
29. **Close-up view of a luminous star-forming galaxy at *z* = 2.95;**
S. Berta, A. J. Young, P. Cox, R. Neri, B. M. Jones, A. J. Baker, A. Omont, ..., [C. Yang](#), D. A. Riechers, H. Dannerbauer, I. Perez-Fournon, P. van der Werf et al. 2021, [A&A](#), 646, A122;
28. **A proto-pseudobulge in ESO 320-G030 fed by a massive molecular inflow driven by a nuclear bar;** ([Harvard CfA Press Release](#), [Phys.org News](#))
E. González-Alfonso, M. Pereira-Santaella, J. Fischer, S. García-Burillo, [C. Yang](#), A. Alonso-Herrero, L. Colina, M. L. N. Ashby, H. A. Smith et al. 2021, [A&A](#), 645, A49;
27. **Planck’s Dusty GEMS. VIII. Dense gas reservoirs in the most active dusty starbursts at *z* ~ 3;**
R. Cañameras, N. P. H. Nesvadba, R. Kneissl, S. König, [C. Yang](#), A. Beelen, R. Hill, E. Le Floch and D. Scott 2021, [A&A](#), 645, A45;
26. **ALMA [N II] 205 μm imaging spectroscopy of the lensed submillimeter galaxy ID 141 at redshift 4.24;**
Cheng Cheng, Xiaoyue Cao, Nanyao Lu, [Chentao Yang](#), Dimitra Rigopoulou, Vassilis Charmandaris et al. 2020, [ApJ](#), 898, 33;
- [†]25. **Etching glass in the early Universe: Luminous HF and H₂O emission in a QSO-SMG pair at *z* = 4.7;**
M. D. Lehnert, [C. Yang](#), B.H.C. Emonts, A. Omont, E. Falgarone, P. Cox, and P. Guillard 2020, [A&A](#), 641, A124;
24. **The MALATANG Survey: Dense Gas and Star Formation from High Transition HCN and HCO⁺ maps of NGC 253;**
Xuejian Jiang, Thomas R. Greve, Yu Gao, Zhi-Yu Zhang, ..., [Chentao Yang](#), Qian Jiao, Aeree Chung et al. 2020, [MNRAS](#), 494, 1276;
- [†]23. **The first detection of the 448 GHz ortho-H₂O line at high redshift: probing the struc-**

- ture of a starburst nucleus at $z \sim 3.63$
[C. Yang](#), E. González-Alfonso, A. Omont, M. Pereira-Santaella, J. Fisher, A. Beelen, R. Gavazzi
2020, *A&A*, 634, L3;
22. **A declining starburst at $z = 4.72$ lensed by a merging pair of massive galaxies at $z = 1.48$;**
L. Ciesla, M. Béthermin, E. Daddi, J. Richard, T. Diaz-Santos, M. Sargent, D. Elbaz, M. Boquien,
T. Wang, C. Schreiber, [C. Yang](#), J. Zabl et al. 2020, *A&A*, 635, A27;
 21. **NOEMA Redshift Measurements of Bright *Herschel* Galaxies;**
R. Neri, P. Cox, A. Omont, A. Beelen, S. Berta, ..., [C. Yang](#) and A.J. Young 2020, *A&A*, 635, A7;
 20. **A SCUBA-2 Selected *Herschel*-SPIRE Dropout and the Nature of this Population;**
J. Greenslade, E. Aguilar, D. L. Clements, H. Dannerbauer, T. Cheng, G. Petitpas, [C. Yang](#), H.
Messias et al. 2019, *MNRAS*, 490, 5317;
 19. **JINGLE V: Dust properties of nearby galaxies derived from hierarchical Bayesian SED
fitting;**
Isabella Lamperti, Amélie Saintonge, Ilse De Looze, Gioacchino Accurso, Christopher J. R.
Clark, Matthew W. L. Smith, Christine D. Wilson, ..., [Chentao Yang](#) 2019, *MNRAS*, 489, 4389;
 18. **JINGLE, a JCMT legacy survey of dust and gas for galaxy evolution studies: II.
SCUBA-2 850 μm data reduction and dust flux density catalogues;**
Matthew W. L. Smith, Christopher J. R. Clark, Ilse De Looze, Isabella Lamperti, Amélie Sain-
tonge, Christine D. Wilson, ..., [Chentao Yang](#) and Ming Zhu 2019, *MNRAS*, 486, 4166;
 17. **The molecular-gas properties in the gravitationally lensed merger HATLAS J142935.3-
002836;**
Hugo Messias, Neil Nagar, Zhi-Yu Zhang, Iván Oteo, Simon Dye, Nicholas Timmons, Eduardo
Ibar, ..., and [Chentao Yang](#) 2019, *MNRAS*, 486, 2366;
 - [†]16. **CO, H₂O, H₂O⁺ line and dust emission in a $z = 3.63$ strongly lensed starburst merger
at sub-kiloparsec scales;**
[C. Yang](#), R. Gavazzi, A. Beelen, P. Cox, A. Omont, M. Lehnert, Y. Gao, R. J. Ivison, A. M. Swin-
bank, L. Barcos-Muñoz, R. Neri, A. Cooray, S. Dye, S. Eales et al. 2019, *A&A*, 624, A138;
 15. **Planck's Dusty GEMS. VII. Atomic carbon and molecular gas in dusty starburst galax-
ies at $z = 2$ to 4;**
N. P. H. Nesvadba, R. Cañameras, R. Kneissl, S. Koenig, [C. Yang](#), E. Le Floch, A. Omont and
D. Scott 2019, *A&A*, 624, A23;
 14. **VALES V: A kinematic analysis of the molecular gas content in *H*-ATLAS galaxies at
 $z \sim 0.03$ – 0.35 using ALMA;**
J. Molina, E. Ibar, V. Villanueva, A. Escala, C. Cheng, M. Baes, H. Messias, [C. Yang](#), F.E. Bauer,
P. P. Van der Werf, R. Leiton, M. Aravena, ..., S. Eales & L. Dunne 2019, *MNRAS*, 482, 1499;
 - [†]13. **Planck's Dusty GEMS. VI. Multi-*J* CO excitation and interstellar medium conditions
in dusty starburst galaxies at $z = 2$ – 4 ; (IRAM Press Release, CEA Press Release)**
R. Cañameras, [C. Yang](#), N. P. H. Nesvadba, A. Beelen, R. Kneissl, S. Koenig, E. Le Floch, M.
Limousin, S. Malhotra, A. Omont, D. Scott 2018, *A&A*, 620, A61;
 12. **JINGLE, a JCMT legacy survey of dust and gas for galaxy evolution studies: I. Survey
overview and first results;**
Amélie Saintonge, Christine D. Wilson, Ting Xiao, Lihwai Lin, Ho Seong Hwang, Tomoka
Tosaki, ..., [Chentao Yang](#), Ming Zhu et al. 2018, *MNRAS*, 481, 3497;
 11. **Far-infrared *Herschel* SPIRE spectroscopy of lensed starbursts reveals physical con-
ditions of ionised gas;**
Zhi-Yu Zhang, R. J. Ivison, R. D. George, Yinghe Zhao, L. Dunne, ..., [Chentao Yang](#), Stephen
Eales, Ros Hopwood, Steve Maddox, Alain Omont et al. 2018, *MNRAS*, 481, 59;
 10. **Extreme conditions in the molecular gas of lensed star-forming galaxies at $z \sim 3$;**
Paola Andreani, Edwin Retana-Montenegro, Zhi-Yu Zhang, Padelis Papadopoulos, [Chentao](#)
[Yang](#), Simona Vegetti 2018, *A&A*, 615, A142;
 9. **The MALATANG Survey: the $L_{\text{gas}}-L_{\text{IR}}$ correlation on sub-kiloparsec scale in six nearby
star-forming galaxies as traced by HCN $J = 4 - 3$ and HCO⁺ $J = 4 - 3$;**
Qing-Hua Tan, Yu Gao, Zhi-Yu Zhang, Thomas Greve, Xue-Jian Jiang, Christine Wilson,
[Chen-Tao Yang](#), Ashley Bemis, Aeree Chung et al. 2018, *ApJ*, 860, 165;
 8. **VALES: IV. Exploring the transition of star formation efficiencies between normal**

and starburst galaxies using APEX/SEPIA and ALMA at low redshift;

C. Cheng, E. Ibar, T. M. Hughes, V. Villanueva, R. Leiton, G. Orellana, A. Munoz-Arancibia, N. Lu, C. K. Xu, C. N. A. Willmer, J. Huang, T. Cao, [C. Yang](#) et al. 2018, *MNRAS*, 475, 248;

7. **The *Herschel* Bright Sources (HerBS): Sample definition and SCUBA-2 observations;**
Tom J. L. C. Bakx, S. A. Eales, M. Negrello, M. W. L. Smith, E. Valiante, W. S. Holland, M. Baes, N. Bourne, D. L. Clements, ..., P. van der Werf, [C. Yang](#), 2018, *MNRAS*, 273, 1751;

6. **High dense gas fraction in intensely star forming dusty galaxies;**

I. Oteo, Z.-Y. Zhang, [C. Yang](#), R. J. Ivison, A. Omont, M. Bremer, S. Bussmann, A. Cooray, P. Cox, H. Dannerbauer, L. Dunne, S. Eales, ..., and P. Van der Werf 2017, *ApJ*, 850, 170;

[†]5. **Molecular gas in the *Herschel*-selected strongly lensed submillimeter galaxies at $z \sim 2-4$ as probed by multi-*J* CO lines;** ([Code on Github: radex_emcee](#))

[C. Yang](#), A. Omont, A. Beelen, Y. Gao, P. van der Werf, R. Gavazzi, Z.-Y. Zhang, R. Ivison, M. Lehnert, D. Liu, I. Oteo, E. González-Alfonso et al. 2017, *A&A*, 608, A144;

[†]4. **Submillimeter H₂O and H₂O⁺ emission in lensed ultra- and hyper-luminous infrared galaxies at $z \sim 2-4$;**

[C. Yang](#), A. Omont, A. Beelen, E. González-Alfonso, R. Neri, Y. Gao, P. van der Werf, A. Weiß, R. Gavazzi, N. Falstad, A. J. Baker, R. S. Bussmann, A. Cooray et al. 2016, *A&A*, 595, A80;

3. **High-*J* CO Versus far-infrared relations in normal and starburst galaxies;**

Daizhong Liu, Yu Gao, Kate Isaak, Emanuele Daddi, [Chentao Yang](#), Nanyao Lu and Paul van der Werf 2015, *ApJ*, 810, L14;

[†]2. **Water vapor in nearby infrared galaxies as probed by *Herschel*;**

[Chentao Yang](#), Yu Gao, A. Omont, Daizhong Liu, K. G. Isaak, D. Downes, P. P. van der Werf and Nanyao Lu 2013, *ApJ*, 771, L24;

[†]1. **H₂O emission in high-*z* ultra-luminous infrared galaxies;** ([A&A Highlight](#))

A. Omont, [C. Yang](#), P. Cox, R. Neri, A. Beelen, R. S. Bussmann, R. Gavazzi, P. van der Werf, D. Riechers, D. Downes and 40 other authors 2013, *A&A*, 551, A115;

Submitted
Publications
&
Reviews
In prep.

• **Dust and Cold Gas Properties of Starburst HyLIRG-Quasars at $z \sim 2.5$**

Feng-Yuan Liu, Y. Sophia Dai, Alain Omont, ..., [Chentao Yang](#), Xue-Bing Wu, and Jia-Sheng Huang, submitted to *ApJ*;

• **Discovery of a radio lobe in the Cloverleaf Quasar at $z = 2.56$**

Lei Zhang, Zhi-Yu Zhang, James. W. Nightingale, Ze-Cheng Zou, Xiaoyue Cao, Chao-Wei Tsai, [Chentao Yang](#), Yong Shi, Junzhi Wang et al., [submitted to MNRAS \(arXiv: 2212.07027\)](#);

• **A candidate dusty protocluster core surrounding a binary galaxy system**

Tom J. L. C. Bakx, S. Berta, H. Dannerbauer, P. Cox, M. Hagimoto, D. H. Hughes, D. A. Riechers, P. P. van der Werf, [C. Yang](#), ..., A. Weiß, and A. J. Young, submitted to *MNRAS*;

• **Serendipitous Discovery of an Optically-Dark Hyper-Luminous Infrared Galaxy at $z = 3.4$**

Natsuki H. Hayatsu, Zhi-Yu Zhang, R.J. Ivison, Chao-wei Tsai, ..., [Chentao Yang](#), ... and Jun-feng Wang, submitted to *MNRAS*;

• **Property characterisations of *Herschel*-selected strong gravitational lensing systems candidates - I. The HST confirmed lenses**

E. Borsato, L. Marchetti, M. Negrello, ..., [C. Yang](#) et al., submitted to *MNRAS*;

• **Bright Extragalactic ALMA Redshift Survey (BEARS) III: Detailed study of emission lines from 71 *Herschel* targets**

M. Hagimoto, T. J. L. C. Bakx, S. Serjeant, G. J. Bendo, S. A. Urquhart, S. Eales, ..., [C. Yang](#), et al., submitted to *MNRAS*;

Invited Review • **Extragalactic water new and far**

[Chentao Yang](#), Eduardo González-Alfonso & Alain Omont, to be submitted to Royal Society Open Science (RSOS);

Presentations

([†]: invited)

2015-2023, ordered by category:

2 *invited* conference talks, 9 *contributed* talks, and 14 (incl. 7 *invited*) seminar/colloquium talks

[‡] *Invited review talk*

• “Water in the Universe” Symposium, ACS Fall 2019 National Meeting & Exposition, San Diego, California, USA
August 25–29, 2019

Water vapor in galaxies at high redshift

- [‡]*Invited conference talk* • The ALMA Quest for Our Cosmic Origins, Joint ALMA Observatory (JAO), Vitacura, Santiago, Chile
March 27, 2018

Physical conditions of the ISM in high-redshift lensed submillimeter galaxies

- Contributed talk* • Behind a Curtain of Dust IV, Sexten Bozen, Italy
July 11–15, 2022

The rich molecular inventory of dusty galaxies at high redshifts

- Contributed talk* • Multi-line Diagnostics of the Interstellar Medium, Nice, France
April 4–6, 2022

The rich molecular inventory of two dusty galaxies twelve billion years ago

- Contributed talk* • KIAA forum on gas in galaxies: Multiple-phase Interstellar medium – Probing the Activities and Power Engines from Local to Distant Universe, Beijing, China
September 9–13, 2019

The interstellar medium in high-redshift strongly gravitational lensed galaxies

- Contributed talk* • Views on the Interstellar Medium in galaxies in the ALMA era, Bologna, Emilia-Romagna, Italy
September 2–6, 2019

Studying the ISM in high-redshift strongly lensed galaxies in the ALMA era

- Contributed talk* • The Laws of Star Formation: From the Cosmic Dawn to the Present Universe, Cambridge University, UK
July 2–6, 2018

Molecular gas in high-redshift strongly lensed dusty starbursts as traced by multi-/CO lines

- Contributed talk* • The Eighth Sino-French “LIA-origins” Workshop: Probing Baryons in the Universe, Sèvres, Hauts-de-Seine, France
November 14–18, 2016

H₂O and H₂O⁺ emission in lensed hyper/ultra-luminous infrared galaxies at $z \sim 2-4$

- Contributed talk* • Water in the Universe: From Clouds to Oceans, European Space Agency (ESA/ESTEC), Noordwijk, Netherlands
April 11–15, 2016

H₂O Emission in Ultra-luminous Infrared Galaxies at High- z

- [‡]*Colloquium talk* • University of Massachusetts Amherst and the Five College Astronomy Department, Massachusetts, USA
February 25, 2021

Physical conditions of the ISM in dusty star-forming galaxies in the early universe

- Colloquium talk* • European Southern Observatory (ESO Santiago), Chile
November 21, 2019

Water vapor in galaxies near and far

- [‡]*Seminar talk* • South-Western Institute For Astronomy Research (SWIFR), China (online)
Oct 12, 2022

The dusty ISM in high-redshift strongly lensed submillimeter galaxies

- [‡]*Seminar talk* • Ecole Normale Supérieure (ENS), Paris, France (online)
May 19, 2022

The dusty ISM in high-redshift strongly lensed submillimeter galaxies

- [‡]*Seminar talk* • The Dominion Radio Astrophysical Observatory (DRAO), Kaleden, British Columbia, Canada (online)
October 7, 2020

Extragalactic water across cosmic time

- [‡]*Seminar talk* • CAS South America Center for Astronomy, Santiago, Chile
January 8, 2020

Water vapor in galaxies near and far

- [‡]*Seminar talk* • Astronomy Department, Beijing Normal University, China
September 9, 2019

Water vapor in galaxies near and far

- [‡]*Seminar talk* • The Cosmic Dawn Center, DTU-Space division, Denmark
December 12, 2018

Physical conditions of the ISM in strongly lensed dusty star-forming galaxies in the early universe

- Seminar talk* • Centre for Extragalactic Astronomy, Durham University, UK
June 29, 2018

Physical conditions of the interstellar medium in strongly lensed submillimeter galaxies at high-redshift

- Seminar talk* • Department of Physics, Oxford University, UK
June 28, 2018

Physical conditions of the ISM in high-redshift strongly lensed dusty star-forming galaxies

- Seminar talk* • Instituto de Física y Astronomía, Universidad de Valparaíso, Chile
January 18, 2018

Physical conditions of the ISM in high-redshift lensed submillimeter galaxies

- Seminar talk* • Institute of Astrophysics, PUC de Chile, Santiago, Chile
December 20, 2017

Physical conditions of the interstellar medium in high-redshift lensed submillimeter

	galaxies	
<i>Seminar talk</i>	• CAS South America Center for Astronomy, Santiago, Chile Tracing the physical conditions of the interstellar medium in high-redshift lensed submillimeter galaxies	December 11, 2017
<i>Seminar talk</i>	• Astronomy Department, Beijing Normal University, China Physical conditions of the ISM in high-redshift submillimeter galaxies	December 23, 2016
<i>Poster</i>	• From Stars to Galaxies II: Connecting our understanding of star and galaxy formation, Gothenburg, Sweden Probing the structure of the ISM in the high-redshift dusty starbursts with submillimeter H₂O lines	June 20–24, 2022
<i>Poster</i>	• IAU Symposium 352: Uncovering early galaxy evolution in the ALMA and JWST era, Viana do Castelo, Portugal CO, H₂O, H₂O⁺ line and dust emission in a $z = 3.63$ strongly lensed starburst merger at sub-kiloparsec scales	June 3–7, 2019
<i>Poster</i>	• Journées Nationales PNCG 2015, Nice, France Submillimeter H₂O line emission in the lensed ultra-luminous infrared galaxies at $z \sim 2-4$	December 15–16, 2015
<i>Poster</i>	• XXIX IAU-GA IAUS315: From interstellar clouds to star-forming galaxies: universal processes? Honolulu, Hawaii, USA Submillimeter H₂O emission in infrared bright galaxies near and far	August 03–07, 2015
<i>Poster</i>	• XXIX IAU-GA FM15: Search for Water and Life's Building Blocks in the Universe, Honolulu, Hawaii, USA Water vapor emission in ultra-luminous infrared galaxies at $z \sim 2-4$	August 03–05, 2015
Grants & Awards	• ESO Science Support Discretionary Fund (SSDF) - 9,000 EUR Student mentoring project (on extragalactic [C I]) at European Southern Observatory	2020-2021
	• IAP Visitorship Grant - 700 EUR/week Institut d'Astrophysique de Paris, France	March, 2020; May, 2019; July, 2018
	• ESO Fellowship European Southern Observatory, Chile	2017-2021
	• International Astronomical Union (IAU) Travel Grant - 1,100 USD XXIX IAU General Assembly, Honolulu, Hawaii, USA	August 3–14, 2015
	• The LIA-Origins Short Visit Program Grant - 3,000 EUR Institut d'Astrophysique de Paris & Institut d'Astrophysique Spatiale, France	2012, 2013
	• Graduate with distinguished honour All the universities in Beijing	2010
	• Graduate with distinguished honour Beijing Normal University	2010
	• National Astronomical Observatories Scholarship National Astronomical Observatory of China	2009
	• National Undergraduate Innovative Test Program Grant - 10,000 CNY National grant for the project: Design of the experiments for the course "Radio Astronomy"	2008
Outreach Experiences	• Core member of the Astronomy Club Beijing Normal University	2007-2009
	• Authors of outreach articles (6 in total) The "Amateur Astronomer" magazine (sponsored by Chinese Astronomical Society & Beijing Planetarium)	2014-2017
	• ALMA virtual tour guider Virtual guided tour of the ESO sites (for ESO Studentship candidates)	November 5, 2020

(Last update: January, 2023. Contents in **green** and **purple** are clickable links.)