## Curriculum Vitae - Chang-Goo Kim

+1-609-933-1180

Department of Astrophysical Sciences

Princeton University http://changgoo.github.io 4 Ivy Lane, Princeton ORCID: 0000-0003-2896-3725 NJ 08544, USA cgkim@astro.princeton.edu Education Mar 2005 -Ph. D in Astronomy Department of Physics and Astronomy, Seoul National University, Korea Feb 2011 Mar 2001 -B. S in Astronomy Feb 2005 Department of Physics and Astronomy, Seoul National University, Korea **Current position** Sep 2016 -Associate Research Scholar present Department of Astrophysical Sciences, Princeton University **Employment** \_ Sep 2017 -Flatiron Research Fellow Aug 2018 Center for Computational Astrophysics, Flatiron Institute Sep 2013 -Postdoctoral Research Associate Department of Astrophysical Sciences, Princeton University Aug 2016 Oct 2011 -**CITA National Fellow** Aug 2013 Department of Physics and Astronomy, University of Western Ontario, Canada Grants \_ 2022 - 2024PI, NASA Astrophysics Theory Program; \$415,564 2019 PI, Chandra cycle 21 (Theory); \$85,000 2018 - 2021Co-I, NASA TCAN (PI: Julian Borrill); \$1,398,099 Research advising \_ PhD thesis projects 2016 – present Woorak Choi (Yonsei, current), Sanghyuk Moon (SNU, PhD in 2022), Lachlan Lancaster (Princeton, PhD in 2022), Alwin Mao (Princeton, PhD in 2020), Munan Gong (Princeton, PhD in 2017) 2018 - present Research projects for graduate students Minghao Guo (Princeton, current), Nora Linzer (Princeton, current), Erin Kado-Fong (Princeton, 2018), Aditi Vijayan (CCA via KSPA, 2018), Kareem El-Badry (CCA via KSPA, 2018) 2014 – present Research projects for undergraduate students Ish Kaul (Princeton, current), Ryan Golant (Princeton, 2019), Mohammad Refat (CCA via AstroCom NYC, 2018), Roberta Raileanu (Princeton, 2014) Teaching \_ 2021 - 2022**Bootcamp Lecturer** 

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GitHub), Python programming language and scientific programming stack

- Teaching basic Unix commands and remote login (ssh), software version control (git and

#### 2005 – 2010 Graduate Student Instructor (Teaching Assistant)

- Grading problem sets and leading problem-solving sessions for courses including *Solar System Astronomy and Lab.*, Astronomical Observation & Lab. I & II, Astronomy and Lab., Introduction to Astrophysics I & II, Stars and Stellar Systems, Man & the Universe.
- Designing and leading the Lab class for Introduction to Astronomy
- Teaching scientific computing and numerical analysis root-finding, numerical integration, linear algebra, linear regression

### Computing time allocations \_\_\_\_\_

2022 - 2024	15M CPU hrs (540k SBUs), NASA HECC, (PI: Chang-Goo Kim)
2018 - 2021	80M CPU hrs, NERSC, (PI: Julian Borrill)
2016 - 2021	24M CPU hrs (850k SBUs), NASA HECC, (PI: Eve Ostriker)

# Observing proposals \_\_\_\_\_

2019	Co-I, VLA Extra Large proposal (PI: Adam Leroy); Local Group L-Band Survey
2019	Co-I. VLA Regular proposal (PI: Woorak Choi), 7.4 hours, rank B

#### Scientific collaboration teams \_\_\_

2022 – present	Working Group Leader, Simons Collaboration on Learning the Universe
2017 - 2022	Working Group Leader, Simulating Multiscale Astrophysics to Understand Galaxies (SMAUG)
2018 - 2021	Working Group Leader, Modeling Polarized Galactic Foregrounds for Cosmic Microwave Back-
	ground missions (NASA TCAN)
2022 – present	Member, Line Emission Mapper X-ray Probe
2021 – present	Member, Local Group L-Band Survey
2020 – present	Member, Galactic Australian Square Kilometre Array Pathfinder Survey
2019 - 2020	Member, Space Infrared Telescope for Cosmology and Astrophysics (SPICA)
2017 - 2019	Member, Probe of Inflation and Cosmic Origins (PICO)

### Professional service \_\_\_\_\_

2020 - 2022	Reviewer, NASA FINESST
2017	Review Panelist, NSF AAG Program
2016 - 2017	Organizer, Star Formation/ISM Rendezvous Seminars at Princeton University
2012 – present	Referee, ApJ, ApJL, MNRAS, JOSS

## References \_\_\_\_\_

Prof. Eve C. Ostriker eco@astro.princeton.edu

Department of Astrophysical Sciences, Princeton University

Prof. Rachel S. Somerville rsomerville@flatironinstitute.org

Center for Computational Astrophysics, Flatiron Institute

Prof. Greg L. Bryan gbryan@astro.columbia.edu

Department of Astronomy, Columbia University

Prof. James M. Stone jmstone@ias.edu

School of Natural Sciences, Institute for Advanced Study

Prof. Snezana Stanimirović sstanimi@astro.wisc.edu

Department of Astronomy, University of Wisconsin-Madison

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## List of Publications (ADS, Google Scholar)

Metrics for Refereed Publications (from ADS as of 2023-06-27) count: 47 — citations: 2193 — h-index: 25

Papers Under Review	

### Refereed Publications as First Author (count: 34 — citations: 1385)

- 47. **Kim, Chang-Goo**; Kim, Jeong-Gyu; Gong, Munan; Ostriker, Eve C., *Introducing TIGRESS-NCR. I. Coregulation of the Multiphase Interstellar Medium and Star Formation Rates*, ApJ, **946**, 3, 2023 [3 citations]
- 46. **Kim, Chang-Goo**; Ostriker, Eve C.; Fielding, Drummond B.; Smith, Matthew C. *et al.*, A Framework for Multiphase Galactic Wind Launching Using TIGRESS, ApJ, **903**, 2020 [26 citations]
- 45. **Kim, Chang-Goo**; Ostriker, Eve C.; Somerville, Rachel S.; Bryan, Greg L. *et al.*, *First Results from SMAUG: Characterization of Multiphase Galactic Outflows from a Suite of Local Star-forming Galactic Disk Simulations*, ApJ, **900**, 61, 2020 [66 citations]
- 44. **Kim, Chang-Goo**; Choi, Steve K.; Flauger, Raphael, *Dust Polarization Maps from TIGRESS: E/B Power Asymmetry and TE Correlation*, ApJ, **880**, 106, 2019 [32 citations]
- 43. **Kim, Chang-Goo**; Ostriker, Eve C., *Numerical Simulations of Multiphase Winds and Fountains from Star-forming Galactic Disks. I. Solar Neighborhood TIGRESS Model*, **ApJ**, **853**, 173, 2018 [140 citations]
- 42. **Kim, Chang-Goo**; Ostriker, Eve C., *Three-phase Interstellar Medium in Galaxies Resolving Evolution with Star Formation and Supernova Feedback (TIGRESS): Algorithms, Fiducial Model, and Convergence*, ApJ, **846**, 133, 2017 [145 citations]
- 41. **Kim, Chang-Goo**; Ostriker, Eve C.; Raileanu, Roberta, *Superbubbles in the Multiphase ISM and the Loading of Galactic Winds*, ApJ, **834**, 25, 2017 [124 citations]
- 40. **Kim, Chang-Goo**; Ostriker, Eve C., *Vertical Equilibrium, Energetics, and Star Formation Rates in Magnetized Galactic Disks Regulated by Momentum Feedback from Supernovae*, ApJ, **815**, 67, 2015 [88 citations]
- 39. **Kim, Chang-Goo**; Ostriker, Eve C., *Momentum Injection by Supernovae in the Interstellar Medium*, ApJ, **802**, 99, 2015 [291 citations]
- 38. **Kim, Chang-Goo**; Ostriker, Eve C.; Kim, Woong-Tae, *Three-dimensional Hydrodynamic Simulations of Multiphase Galactic Disks with Star Formation Feedback. II. Synthetic H I 21 cm Line Observations*, ApJ, **786**, 64, 2014 [44 citations]
- 37. **Kim, Chang-Goo**; Basu, Shantanu, *Long-term Evolution of Decaying Magnetohydrodynamic Turbulence in the Multiphase Interstellar Medium*, ApJ, **778**, 88, 2013 [6 citations]
- 36. **Kim, Chang-Goo**; Ostriker, Eve C.; Kim, Woong-Tae, *Three-dimensional Hydrodynamic Simulations of Multiphase Galactic Disks with Star Formation Feedback. I. Regulation of Star Formation Rates*, ApJ, **776**, 1, 2013 [171 citations]
- 35. **Kim, Chang-Goo**; Kim, Woong-Tae; Ostriker, Eve C., *Regulation of Star Formation Rates in Multiphase Galactic Disks: Numerical Tests of the Thermal/Dynamical Equilibrium Model*, ApJ, **743**, 25, 2011 [129 citations]
- 34. **Kim, Chang-Goo**; Kim, Woong-Tae; Ostriker, Eve C., *Galactic Spiral Shocks with Thermal Instability in Vertically Stratified Galactic Disks*, ApJ, **720**, 1454, 2010 [22 citations]

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- 33. **Kim, Chang-Goo**; Kim, Woong-Tae; Ostriker, Eve C., *Galactic Spiral Shocks with Thermal Instability*, ApJ, **681**, 1148, 2008 [54 citations]
- 32. **Kim, Chang-Goo**; Kim, Woong-Tae; Ostriker, Eve C., *Interstellar Turbulence Driving by Galactic Spiral Shocks*, ApJ, **649**, 2006 [44 citations]

## Refereed Publications w/ Significant Contribution (count: 37 — citations: 395)

Name: student advised/co-advised by me

- 31. Moon, Sanghyuk; Kim, Woong-Tae; **Kim, Chang-Goo**; Ostriker, Eve C., *Effects of Magnetic Fields on Gas Dynamics and Star Formation in Nuclear Rings*, ApJ, **946**, 114, 2023
- 30. <u>Guo, Minghao</u>; Stone, James M.; **Kim, Chang-Goo**; Quataert, Eliot, *Toward Horizon-scale Accretion onto Supermassive Black Holes in Elliptical Galaxies*, ApJ, **946**, 26, 2023 [6 citations]
- 29. Kim, Jeong-Gyu; Gong, Munan; **Kim, Chang-Goo**; Ostriker, Eve C., *Photochemistry and Heating/Cooling of the Multiphase Interstellar Medium with UV Radiative Transfer for Magnetohydrodynamic Simulations*, ApJS, **264**, 10, 2023 [6 citations]
- 28. Kado-Fong, Erin; Kim, Chang-Goo; Greene, Jenny E.; Lancaster, Lachlan, *Ultra-diffuse Galaxies as Extreme Star-forming Environments. II. Star Formation and Pressure Balance in H I-rich UDGs*, ApJ, **939**, 101, 2022 [3 citations]
- 27. Kim, Jeong-Gyu; Gong, Munan; **Kim, Chang-Goo**; Ostriker, Eve C., *Photochemistry and Heating/Cooling of the Multiphase Interstellar Medium with UV Radiative Transfer for Magnetohydrodynamic Simulations*, 2022 (arXiv:2210.08024), ApJS in press
- 26. Ostriker, Eve C.; **Kim, Chang-Goo**, *Pressure-regulated, Feedback-modulated Star Formation in Disk Galaxies*, ApJ, **936**, 137, 2022 [24 citations]
- 25. Choi, Woorak; Kim, Chang-Goo; Chung, Aeree, Ram Pressure Stripping of the Multiphase ISM: A Detailed View from TIGRESS Simulations, ApJ, 936, 133, 2022 [2 citations]
- 24. Moon, Sanghyuk; Kim, Woong-Tae; **Kim, Chang-Goo**; Ostriker, Eve C., *Effects of Varying Mass Inflows on Star Formation in Nuclear Rings of Barred Galaxies*, ApJ, **925**, 99, 2022 [10 citations]
- 23. <u>Lancaster, Lachlan</u>; Ostriker, Eve C.; Kim, Jeong-Gyu; **Kim, Chang-Goo**, *Star Formation Regulation and Self-pollution by Stellar Wind Feedback*, ApJ, **922**, 2021 [19 citations]
- 22. Clark, S. E.; **Kim, Chang-Goo**; Hill, J. Colin; Hensley, Brandon S., *The Origin of Parity Violation in Polarized Dust Emission and Implications for Cosmic Birefringence*, ApJ, **919**, 53, 2021 [36 citations]
- 21. <u>Lancaster, Lachlan</u>; Ostriker, Eve C.; Kim, Jeong-Gyu; **Kim, Chang-Goo**, *Efficiently Cooled Stellar Wind Bubbles in Turbulent Clouds. II. Validation of Theory with Hydrodynamic Simulations*, **ApJ**, **914**, 90, 2021 [40 citations]
- Lancaster, Lachlan; Ostriker, Eve C.; Kim, Jeong-Gyu; Kim, Chang-Goo, Efficiently Cooled Stellar Wind Bubbles in Turbulent Clouds. I. Fractal Theory and Application to Star-forming Clouds, ApJ, 914, 89, 2021 [57 citations]
- 19. Moon, Sanghyuk; Kim, Woong-Tae; **Kim, Chang-Goo**; Ostriker, Eve C., *Star Formation in Nuclear Rings with the TIGRESS Framework*, ApJ, **914**, 9, 2021 [14 citations]
- 18. Koo, Bon-Chul; **Kim, Chang-Goo**; Park, Sangwook; Ostriker, Eve C., *Radiative Supernova Remnants and Supernova Feedback*, ApJ, **905**, 35, 2020 [12 citations]
- 17. Gong, Munan; Ostriker, Eve C.; **Kim, Chang-Goo**; Kim, Jeong-Gyu, *The Environmental Dependence of the XCO Conversion Factor*, ApJ, **903**, 142, 2020 [45 citations]

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- 16. Seon, Kwang-il; **Kim, Chang-Goo**, *Ly-alpha Radiative Transfer: Monte Carlo Simulation of the Wouthuysen-Field Effect*, ApJS, **250**, 9, 2020 [20 citations]
- 15. Mao, S. Alwin; Ostriker, Eve C.; **Kim, Chang-Goo**, Cloud Properties and Correlations with Star Formation in Self-consistent Simulations of the Multiphase ISM, ApJ, **898**, 52, 2020 [20 citations]
- 14. Kim, Woong-Tae; **Kim, Chang-Goo**; Ostriker, Eve C., *Local Simulations of Spiral Galaxies with the TIGRESS Framework. I. Star Formation and Arm Spurs/Feathers*, ApJ, **898**, 35, 2020 [35 citations]
- 13. <u>Kado-Fong, Erin</u>; Kim, Jeong-Gyu; Ostriker, Eve C.; **Kim, Chang-Goo**, *Diffuse Ionized Gas in Simulations of Multiphase, Star-forming Galactic Disks*, ApJ, **897**, 143, 2020 [22 citations]
- 12. Vijayan, Aditi; Kim, Chang-Goo; Armillotta, Lucia; Ostriker, Eve C. et al., Kinematics and Dynamics of Multiphase Outflows in Simulations of the Star-forming Galactic Interstellar Medium, ApJ, 894, 12, 2020 [24 citations]
- 11. El-Badry, Kareem; Ostriker, Eve C.; **Kim, Chang-Goo**; Quataert, Eliot *et al.*, *Evolution of supernovae-driven superbubbles with conduction and cooling*, MNRAS, **490**, 1961, 2019 [47 citations]
- 10. Gong, Munan; Ostriker, Eve C.; **Kim, Chang-Goo**, *The X CO Conversion Factor from Galactic Multiphase ISM Simulations*, ApJ, **858**, 16, 2018 [51 citations]

### Refereed Publications as Co-Author (count: -24 — citations: 413)

- 9. Motwani, Bhawna; Genel, Shy; Bryan, Greg L.; **Kim, Chang-Goo** et al., First Results from SMAUG: Insights into Star Formation Conditions from Spatially Resolved ISM Properties in TNG50, ApJ, **926**, 139, 2022 [8 citations]
- 8. Pingel, N. M. et al. (incl. **CGK**), GASKAP-HI pilot survey science I: ASKAP zoom observations of HI emission in the Small Magellanic Cloud, PASA, **39**, 2022 [7 citations]
- 7. Pandya, V. et al. (incl. **CGK**), Characterizing mass, momentum, energy, and metal outflow rates of multiphase galactic winds in the FIRE-2 cosmological simulations, MNRAS, **508**, 2979, 2021 [52 citations]
- 6. Pandya, V. et al. (incl. **CGK**), First Results from SMAUG: The Need for Preventative Stellar Feedback and Improved Baryon Cycling in Semianalytic Models of Galaxy Formation, ApJ, **905**, 4, 2020 [29 citations]
- Fielding, D. B. et al. (incl. CGK), First Results from SMAUG: Uncovering the Origin of the Multiphase Circumgalactic Medium with a Comparative Analysis of Idealized and Cosmological Simulations, ApJ, 903, 32, 2020 [39 citations]
- 4. Murray, Claire E.; Peek, J. E. G.; **Kim, Chang-Goo**, *Extracting the Cold Neutral Medium from H I Emission with Deep Learning: Implications for Galactic Foregrounds at High Latitude*, **ApJ**, **899**, 15, 2020 [19 citations]
- 3. Murray, C. E. et al. (incl. **CGK**), The 21-SPONGE H I Absorption Line Survey. I. The Temperature of Galactic H I, ApJS, **238**, 14, 2018 [69 citations]
- 2. Murray, Claire E.; Stanimirović, Snežana; **Kim, Chang-Goo**; Ostriker, Eve C. et al., Recovering Interstellar Gas Properties with Hi Spectral Lines: A Comparison between Synthetic Spectra and 21-SPONGE, ApJ, **837**, 55, 2017 [21 citations]
- 1. Safranek-Shrader, Chalence; Krumholz, Mark R.; **Kim, Chang-Goo**; Ostriker, Eve C. *et al.*, *Chemistry and radiative shielding in star-forming galactic discs*, MNRAS, **465**, 885, 2017 [47 citations]

Conference Proceedings/White Papers	

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- Kraft, R. et al. (incl. **CGK**), Line Emission Mapper (LEM): Probing the physics of cosmic ecosystems, 2022 (arXiv:2211.09827)
- Kim, Chang-Goo; Ostriker, Eve C., 2016 (arXiv:1511.00018), In P. Jablonka, P. André, and F. van der Tak, editors, From Interstellar Clouds to Star-Forming Galaxies: Universal Processes?, volume 315 of IAU Symposium, pages 38–41, Feedback Regulated Turbulence, Magnetic Fields, and Star Formation Rates in Galactic Disks.
- **Kim, Chang-Goo**; Ostriker, Eve C.; Kim, Woong-Tae, 2015 (arXiv:1211.5161), Highlights of Astronomy, 16:609–610, March 2015, Numerical modeling of multiphase, turbulent galactic disks with star formation feedback.

## **List of Professional Presentations**

Professional presentations	
12/2022	<b>Invited Talk</b> , <i>Multiphase ISM from the TIGRESS-NCR simulations</i> , Theory meets Observations: Star Formation Physics Probed in Nearby Galaxies, Heidelberg, Germany
11/2022	<b>Seminar</b> , Introducing TIGRESS-NCR: current status of numerical modeling of the star-forming ISM, Thunch, Princeton, NJ
11/2022	<b>Colloquium</b> , Introducing TIGRESS-NCR: current status of numerical modeling of the star- forming ISM, University of Wisconsin-Madison, Madison, WI
11/2022	Colloquium, Introducing TIGRESS-NCR: current status of numerical modeling of the star- forming ISM, Osaka University, Osaka, Japan
8/2022	<b>Colloquium</b> , Numerical modeling of the star-forming ISM: SFRs, Outflows, and ISM energetics, Korea Astronomy and Space Science Institute, Daejeon, Korea
8/2022	Contributed Talk, How Are Galactic Star Formation Rates Regulated?, IAU Symposium #373: Resolving the Rise and Fall of Star Formation in Galaxies, Busan, Korea
7/2022	<b>Invited Talk</b> , <i>Introducing TIGRESS-NCR:ISM energetics/phases and SFRs</i> , Interstellar Institute #5: With Two Eyes, Orsay, France
7/2022	Contributed Talk, How Are Galactic Star Formation Rates Regulated?, A Holistic View of Stellar Feedback and Galaxy Evolution, Ascona, Switzerland
5/2022	Invited Talk, How Do Stellar Feedback Regulates Galactic Star Formation Rates and Drives Multiphase Outflows?, CITA, Toronto, Canada
4/2022	<b>Colloquium</b> , Galactic Star Formation Rates and Multiphase Outflow Driving in the Star-Forming ISM, University of Florida, Gainesville, FL
10/2021	Invited Talk, How Are Galactic Star Formation Rates Regulated?, CEA-Saclay, Paris, France
8/2021	<b>Invited Talk</b> , <i>Multiphase Galactic Outflows inTIGRESS</i> , Baltimore Wind Workshop 2021, Baltimore, MD
6/2021	<b>Invited Talk</b> , The Role of Magnetic Fields in Regulating Star Formation Rates, Midwest Magnetic Field Meeting 2021, Madison, WI (remote)
4/2021	Invited Talk, MHD Simulations of the ISM and Synthetic Dust Polarization Maps, Pan- Experiment Galactic Science Group Seminar, , remote
8/2020	<b>Invited Talk</b> , A Perspective on the Future of ISM Simulations in the 2030s, Cosmology with CMB-S4, University of Chicago, remote
3/2020	<b>Colloquium</b> , Self-Regulation of Star Formation Rates and Launching of Multiphase Galactic Winds, University of Georgia, Athens, GA
2/2020	Colloquium, Self-Regulation of Star Formation Rates and Launching of Multiphase Galactic Winds, Waterloo, ON, Canada
11/2019	<b>Invited Review</b> , Feedback Regulated Star Formation, Cosmic turbulence and magnetic fields: physics of baryonic matter across time and scales, Cargése, France

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6/2019	Contributed Talk, Multiphase Outflows in TIGRESS, Feedback and its Role in Galaxy Forma-
3/2019	tion, Spetses, Greece Invited Talk, Fast Fourier Transform and Self Gravity, UNLV, Las Vegas, NV
3/2019	Invited Review, Galactic Star Formation Rates, Linking galaxies from the Epoch of initial star-
0/2013	formation to today, Sydney, Australia
3/2019	Colloquium, Introducing TIGRESS: Where Gravity and Feedback Meet the Real ISM, University
- /	of Maryland, College Park, MD
2/2019	Invited Talk, Multiphase ISM interacting with ICM, CCA, New York, NY
2/2019	<b>Colloquium</b> , Introducing TIGRESS: Where Gravity and Feedback Meet the Real ISM, Australia National University, Canberra, Australia
10/2018	Invited Talk, Synthetic Observations of TIGRESS: Dust Polarization Maps, HI 21cm Lines, and
	more, The Milky Way in the age of Gaia, Orsay, France
9/2018	Contributed Talk, Galactic Winds in TIGRESS, THINKSHOP15, Potsdam, Germany
8/2018	Colloquium, Star Formation Rates and Galactic Winds in TIGRESS, Korea Astronomy and
8/2018	Space Science Institute, Daejeon, Korea  Colloquium, Star Formation Rates and Galactic Winds in TIGRESS, Yonsei University, Seoul,
0/2010	Korea
7/2018	Invited Talk, Star Formation Rates and Galactic Winds in TIGRESS, CCA, New York, NY
6/2018	Invited Talk, Synthetic Polarized Dust Emission from Self-Consistent MHD Simulations, CMB
	Foreground Workshop at CCA, New York, NY
4/2018	Invited Talk, Partner of Cosmic Rays: Multiphase ISM and Galactic Outflows, MPPC Workshop,
3/2018	Princeton, NJ Invited Talk, Star Formation and Galactic Winds in Self-Consistent Local ISM Simulations,
3/2010	Computational Galaxy Formation at Ringberg Castle, Tegernsee, Germany
11/2017	Invited Talk, Self-Consistent MHD Simulations of the Local ISM:Synthetic Polarized Dust Emis-
	sion, CMB Foreground Workshop at UCSD, San Diego, CA
7/2017	Invited Talk, TIGRESS: Three-phase ISM in Galaxies Resolving Evolution with Star formation
5/2017	and Supernova feedback, The ISM beyond 3D, Orsay, France  Colloquium, Supernova as a Powerful Regulator of Galactic SFRs and Winds, Osaka University,
5/2011	Osaka, Japan
2/2017	Colloquium, Galactic Star Formation Rates Regulated by Star Formation Feedback, University
,	of California, Santa Barbara, CA
2/2017	Invited Talk, Supernova Driven Galactic Winds and Synthetic Observations using TIGRESS,
10/2016	UCSB, Santa Barbara, CA <b>Colloquium</b> , Self-Regulation of Star Formation Rates in Galactic Disks, Shanghai Jiao Tong
10/2010	University, Shanghai, China
10/2016	Colloquium, Supernova Driven Galactic Outflows, Korea Astronomy and Space Science Insti-
	tute, Daejeon, Korea
10/2016	Invited Talk, How do Supernovae Regulate Star Formation and Launch Galactic Winds?, 7th
10/2016	East-Asia Numerical Astrophysics Meeting, Beijing, China <b>Colloquium</b> , Supernova Driven Galactic Outflows, Seoul National University, Seoul, Korea
8/2016	
0/2010	<b>Invited Review</b> , How Do Supernovae Regulate Star Formation and Launch Galactic Winds?, How Galaxies Form Stars, Stockholm, Sweden
5/2016	Invited Talk, Star Formation and Galactic Winds Regulated by Supernovae, Computational
,	Galaxy Formation at Ringberg Castle, Tegernsee, Germany
10/2015	Contributed Talk, Generation and Saturation of Magnetic Fields in the ISM Regulated by Star
Q /2015	Formation Feedback, Magnetic Fields in the Universe V, Cargése, France  Contributed Talk, Feedback Populated Turbulance, Magnetic Fields, and SERs in Calastic
8/2015	Contributed Talk, Feedback Regulated Turbulence, Magnetic Fields, and SFRs in Galactic Disks, IAU Symposium #315, Honolulu, HI
	2.5.6, 1.10 Symposium $\pi$ 010, Honordia, Hi

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4/2015	Invited Talk, Feedback Regulated Turbulence, Magnetic Fields, and SFRs in Galactic Disks, IAS, Princeton, NJ
9/2014	Colloquium, Supernova Feedback in Multiphase Galactic Disks, Seoul National University, Seoul,
9/2014	Korea Colloquium, Supernova Feedback in Multiphase Galactic Disks, Korea Astronomy and Space
9/2014	Science Institute, Daejeon, Korea <b>Colloquium</b> , Supernova Feedback in Multiphase Galactic Disks, Korea Institute for Advanced
,	Study, Seoul, Korea
9/2014	<b>Invited Talk</b> , Feedback Regulated SFRs and HI 21cm Lines, 6th East-Asia Numerical Astrophysics Meeting, Suwon, Korea
6/2014	Invited Talk, Momentum Injection by Supernovae in the ISM, KITP Program – Gravity's Loyal
4/2013	Opposition, Santa Barbara, CA  Contributed Talk, Long-Term Evolution of Decaying MHD Turbulence in the Multiphase ISM,
2/2013	KAS Spring Meeting, Daecheon, Korea  Invited Talk, Long-Term Evolution of Decaying MHD Turbulence in the Multiphase ISM, CITA
,	National Fellow Meeting, Toronto, Canada
1/2013	<b>Contributed Talk</b> , Long-Term Evolution of Decaying MHD Turbulence in the Multiphase ISM, AAS Meeting #221, Long Beach, CA
8/2012	<b>Invited Talk</b> , Numerical Modeling of Multiphase, Turbulent Galactic Disks with Star Formation Feedback, IAU General Assembly – SpS12, Beijing, China
9/2011	Colloquium, Regulation of Star Formation Rates in Galactic Disks, Yonsei University, Seoul,
3/2011	Korea  Colloquium, Thermal and Dynamical Evolution of a Gaseous Medium and Star Formation in  Disk Galaxies, National Institute for Mathematical Sciences, Daejeon, Korea
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