Curriculum Vitae - Chang-Goo Kim

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Department of Astrophysical Sciences

Princeton University

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 _____ Jul 2023 -Research Scholar present Department of Astrophysical Sciences, Princeton University **Employment** _ Sep 2016 -**Associate Research Scholar** Jun 2023 Department of Astrophysical Sciences, Princeton University Sep 2017 -Flatiron Research Fellow Center for Computational Astrophysics, Flatiron Institute Aug 2018 Sep 2013 -Postdoctoral Research Associate Aug 2016 Department of Astrophysical Sciences, Princeton University 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 Co-I, NASA TCAN (PI: Julian Borrill); \$1,398,099 2018 - 2021Research advising __ 2016 – present PhD thesis projects Minghao Guo (Princeton, current), 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 Nora Linzer (Princeton, 2022), Erin Kado-Fong (Princeton, 2018), Aditi Vijayan (CCA via KSPA, 2018), Kareem El-Badry (CCA via KSPA, 2018) Research projects for undergraduate students 2014 - present Sajia Shahrin Neha (Princeton, current), Ish Kaul (Princeton, 2022), Ryan Golant (Princeton, 2019), Mohammad Refat (CCA via AstroCom NYC, 2018), Roberta Raileanu (Princeton, 2014) Teaching _

Chang-Goo Kim 1 Curriculum Vitae

2021 – 2023 **Bootcamp Lecturer**

- Teaching basic Unix commands and remote login (ssh), software version control (git and GitHub), Python programming language and scientific programming stack

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

2022 - present Working Group Leader Simons Collaboration on Learning the Universe

2019 Co-I, VLA Regular proposal (PI: Woorak Choi), 7.4 hours, rank B

Scientific collaboration teams _____

2022 prese	to volking Group Leader, Simons Conaboration on Learning the Oniverse
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
 2019 – 2020
 Member, Galactic Australian Square Kilometre Array Pathfinder Survey
 Member, Space Infrared Telescope for Cosmology and Astrophysics (SPICA)

2017 – 2019 Member, Probe of Inflation and Cosmic Origins (PICO)

Professional service _____

2017 – present	Review Panelist, Reviewer	′, NSF AAG, NASA ADAP,	NASA FINESST
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2012 – present **Referee**, AAS, MNRAS, JOSS

2023 - present **Organizer**, Daily Astro Coffee at Princeton University

2016 – 2017 Organizer, Star Formation/ISM Rendezvous Seminars at Princeton University

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. James M. Stone jmstone@ias.edu

School of Natural Sciences, Institute for Advanced Study

Chang-Goo Kim 2 Curriculum Vitae

List of Publications (ADS, Google Scholar)

Metrics for Refereed Publications (from ADS as of 2023-08-21) count: 46 — citations: 2251 — h-index: 25

Papers Under Review _

- Gong, M. et al. (incl. **CGK**), Implementation of chemistry in the Athena++ code, 2023 (arXiv:2305.04965) [2 citations], ApJ submitted
- Smith, Matthew C.; Fielding, Drummond B.; Bryan, Greg L.; **Kim, Chang-Goo** et al., Arkenstone I: A Novel Method for Robustly Capturing High Specific Energy Outflows In Cosmological Simulations, 2023 (arXiv:2301.07116) [5 citations], ApJ submitted
- Steinwandel, Ulrich P.; **Kim, Chang-Goo**; Bryan, Greg L.; Ostriker, Eve C. *et al.*, *The structure and composition of multiphase galactic winds in a Large Magellanic Cloud mass simulated galaxy*, 2022 (arXiv:2212.03898) [5 citations], ApJ submitted

Refereed Publications as First Author (count: 16 — citations: 1398)

- 46. **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 (arXiv:2211.13293) [5 citations]
- 45. **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 (arXiv:2010.09090) [26 citations]
- 44. **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 (arXiv:2006.16315) [66 citations]
- 43. **Kim, Chang-Goo**; Choi, Steve K.; Flauger, Raphael, *Dust Polarization Maps from TIGRESS: E/B Power Asymmetry and TE Correlation*, ApJ, **880**, 106, 2019 (arXiv:1901.07079) [31 citations]
- 42. **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 (arXiv:1801.03952) [142 citations]
- 41. **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 (arXiv:1612.03918) [147 citations]
- 40. **Kim, Chang-Goo**; Ostriker, Eve C.; Raileanu, Roberta, *Superbubbles in the Multiphase ISM and the Loading of Galactic Winds*, ApJ, **834**, 25, 2017 (arXiv:1610.03092) [125 citations]
- 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 (arXiv:1511.00010) [88 citations]
- 38. **Kim, Chang-Goo**; Ostriker, Eve C., *Momentum Injection by Supernovae in the Interstellar Medium*, ApJ, **802**, 99, 2015 (arXiv:1410.1537) [295 citations]
- 37. **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 (arXiv:1403.5566) [45 citations]

Chang-Goo Kim 3 Curriculum Vitae

- 36. **Kim, Chang-Goo**; Basu, Shantanu, Long-term Evolution of Decaying Magnetohydrodynamic Turbulence in the Multiphase Interstellar Medium, ApJ, **778**, 88, 2013 (arXiv:1309.4996) [6 citations]
- 35. **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 (arXiv:1308.3231) [172 citations]
- 34. **Kim, Chang-Goo**; Kim, Woong-Tae; Ostriker, Eve C., *Regulation of Star Formation Rates in Multi-* phase Galactic Disks: Numerical Tests of the Thermal/Dynamical Equilibrium Model, ApJ, **743**, 25, 2011 (arXiv:1109.0028) [129 citations]
- 33. **Kim, Chang-Goo**; Kim, Woong-Tae; Ostriker, Eve C., *Galactic Spiral Shocks with Thermal Instability in Vertically Stratified Galactic Disks*, ApJ, **720**, 1454, 2010 (arXiv:1006.4691) [23 citations]
- 32. **Kim, Chang-Goo**; Kim, Woong-Tae; Ostriker, Eve C., *Galactic Spiral Shocks with Thermal Instability*, ApJ, **681**, 1148, 2008 (arXiv:0804.0139) [54 citations]
- 31. **Kim, Chang-Goo**; Kim, Woong-Tae; Ostriker, Eve C., *Interstellar Turbulence Driving by Galactic Spiral Shocks*, ApJ, **649**, 2006 (arXiv:astro-ph/0608161) [44 citations]

Refereed Publications w/ Significant Contribution (count: 19 — citations: 415)

Name: student advised/co-advised by me

- 30. 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 (arXiv:2303.04206)
- 29. <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 (arXiv:2211.05131) [6 citations]
- 28. 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 (arXiv:2210.08024) [7 citations]
- 27. 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 (arXiv:2209.05500) [3 citations]
- 26. Ostriker, Eve C.; **Kim, Chang-Goo**, *Pressure-regulated, Feedback-modulated Star Formation in Disk Galaxies*, ApJ, **936**, 137, 2022 (arXiv:2206.00681) [25 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 (arXiv:2207.05263) [3 citations]
- 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 (arXiv:2110.14882) [11 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 (arXiv:2110.05508) [18 citations]
- 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 (arXiv:2105.00120)
 [38 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 (arXiv:2104.07722) [43 citations]

Chang-Goo Kim 4 Curriculum Vitae

- 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 (arXiv:2104.07691) [60 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 (arXiv:2104.10349) [14 citations]
- 18. Koo, Bon-Chul; **Kim, Chang-Goo**; Park, Sangwook; Ostriker, Eve C., *Radiative Supernova Remnants and Supernova Feedback*, ApJ, **905**, 35, 2020 (arXiv:2011.06322) [13 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 (arXiv:2009.14631) [46 citations]
- 16. Seon, Kwang-il; **Kim, Chang-Goo**, *Ly-alpha Radiative Transfer: Monte Carlo Simulation of the Wouthuysen-Field Effect*, ApJS, **250**, 9, 2020 (arXiv:2005.00238) [22 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 (arXiv:1911.05078) [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 (arXiv:2006.05614) [38 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 (arXiv:2006.06697) [22 citations]
- 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 (arXiv:1911.07872) [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 (arXiv:1902.09547) [49 citations]
- 10. Gong, Munan; Ostriker, Eve C.; **Kim, Chang-Goo**, *The X CO Conversion Factor from Galactic Multiphase ISM Simulations*, ApJ, **858**, 16, 2018 (arXiv:1803.09822) [51 citations]

Refereed Publications as Co-Author (count: 11 — citations: 438)

- 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 (arXiv:2006.16314) [9 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 (arXiv:2111.05339) [8 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 (arXiv:2103.06891) [53 citations]
- Pandya, V. et al. (incl. CGK), First Results from SMAUG: The Need for Preventative Stellar Feed-back and Improved Baryon Cycling in Semianalytic Models of Galaxy Formation, ApJ, 905, 4, 2020 (arXiv:2006.16317) [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 (arXiv:2006.16316) [40 citations]

Chang-Goo Kim 5 Curriculum Vitae

- 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 (arXiv:2006.16490) [21 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 (arXiv:1806.06065) [73 citations]
- 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 (arXiv:1612.02017) [22 citations]
- 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 (arXiv:1605.07618) [47 citations]

Conference Proceedings/White Papers _____

- 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	Invited Talk , <i>Multiphase ISM from the TIGRESS-NCR simulations</i> , Theory meets Observations:
,	Star Formation Physics Probed in Nearby Galaxies, Heidelberg, Germany
11/2022	Seminar, Introducing TIGRESS-NCR: current status of numerical modeling of the star-forming
	ISM, Thunch, Princeton, NJ
11/2022	Colloquium, 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	Colloquium , 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	Invited Talk , <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	Colloquium , Galactic Star Formation Rates and Multiphase Outflow Driving in the Star-Forming
	ISM, University of Florida, Gainesville, FL

Chang-Goo Kim 6 Curriculum Vitae

10/2021	Invited Talk, How Are Galactic Star Formation Rates Regulated?, CEA-Saclay, Paris, France
8/2021	Invited Talk , <i>Multiphase Galactic Outflows inTIGRESS</i> , Baltimore Wind Workshop 2021, Baltimore, MD
6/2021	Invited Talk, 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	Invited Talk, A Perspective on the Future of ISM Simulations in the 2030s, Cosmology with CMB-S4, University of Chicago, remote
3/2020	Colloquium, 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
11/2019	Winds, Waterloo, ON, Canada Invited Review, Feedback Regulated Star Formation, Cosmic turbulence and magnetic fields:
6/2019	physics of baryonic matter across time and scales, Cargése, France 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-
3/2019	formation to today, Sydney, Australia Colloquium , <i>Introducing TIGRESS: Where Gravity and Feedback Meet the Real ISM</i> , University of Maryland, College Park, MD
2/2019	Invited Talk, Multiphase ISM interacting with ICM, CCA, New York, NY
2/2019	Colloquium, Introducing TIGRESS: Where Gravity and Feedback Meet the Real ISM, Australia
10/2018	National University, Canberra, Australia 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 Space Science Institute, Daejeon, Korea
8/2018	Colloquium, Star Formation Rates and Galactic Winds in TIGRESS, Yonsei University, Seoul, 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, Princeton, NJ
3/2018	Invited Talk, Star Formation and Galactic Winds in Self-Consistent Local ISM Simulations, Computational Galaxy Formation at Ringberg Castle, Tegernsee, Germany
11/2017	Invited Talk, Self-Consistent MHD Simulations of the Local ISM:Synthetic Polarized Dust Emission, CMB Foreground Workshop at UCSD, San Diego, CA
7/2017	Invited Talk, TIGRESS: Three-phase ISM in Galaxies Resolving Evolution with Star formation and Supernova feedback, The ISM beyond 3D, Orsay, France
5/2017	Colloquium, Supernova as a Powerful Regulator of Galactic SFRs and Winds, Osaka University, Osaka, Japan
2/2017	Colloquium, Galactic Star Formation Rates Regulated by Star Formation Feedback, University
2/2017	of California, Santa Barbara, CA Invited Talk , Supernova Driven Galactic Winds and Synthetic Observations using TIGRESS, UCSB, Santa Barbara, CA

Chang-Goo Kim 7 Curriculum Vitae

10/2016	Colloquium , Self-Regulation of Star Formation Rates in Galactic Disks, Shanghai Jiao Tong University, Shanghai, China
10/2016	Colloquium , Supernova Driven Galactic Outflows, Korea Astronomy and Space Science Institute, Daejeon, Korea
10/2016	Invited Talk, How do Supernovae Regulate Star Formation and Launch Galactic Winds?, 7th East-Asia Numerical Astrophysics Meeting, Beijing, China
10/2016	Colloquium, Supernova Driven Galactic Outflows, Seoul National University, Seoul, Korea
8/2016	Invited Review , 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 Formation Feedback, Magnetic Fields in the Universe V, Cargése, France
8/2015	Contributed Talk, Feedback Regulated Turbulence, Magnetic Fields, and SFRs in Galactic Disks, IAU Symposium #315, Honolulu, HI
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, Korea
9/2014	Colloquium , Supernova Feedback in Multiphase Galactic Disks, Korea Astronomy and Space Science Institute, Daejeon, Korea
9/2014	Colloquium , Supernova Feedback in Multiphase Galactic Disks, Korea Institute for Advanced Study, Seoul, Korea
9/2014	Invited Talk , Feedback Regulated SFRs and HI 21cm Lines, 6th East-Asia Numerical Astrophysics Meeting, Suwon, Korea
6/2014	Invited Talk , <i>Momentum Injection by Supernovae in the ISM</i> , KITP Program – Gravity's Loyal Opposition, Santa Barbara, CA
4/2013	Contributed Talk, Long-Term Evolution of Decaying MHD Turbulence in the Multiphase ISM, KAS Spring Meeting, Daecheon, Korea
2/2013	Invited Talk, Long-Term Evolution of Decaying MHD Turbulence in the Multiphase ISM, CITA National Fellow Meeting, Toronto, Canada
1/2013	Contributed Talk, Long-Term Evolution of Decaying MHD Turbulence in the Multiphase ISM, AAS Meeting #221, Long Beach, CA
8/2012	Invited Talk, 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, Korea
3/2011	Colloquium , Thermal and Dynamical Evolution of a Gaseous Medium and Star Formation in Disk Galaxies, National Institute for Mathematical Sciences, Daejeon, Korea

Chang-Goo Kim 8 Curriculum Vitae