Curriculum Vitae – Chang-Goo Kim

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NJ 08544, USA cgkim@astro.princeton.edu

Education	
Mar 2005– Feb 2011	Ph. D in Astronomy, Advisor: Prof. Woong-Tae Kim Department of Physics and Astronomy, Seoul National University, Korea
Mar 2001-	B. S in Astronomy
Feb 2005	Department of Physics and Astronomy, Seoul National University, Korea
Current Position	on
Sep 2018 –	Associate Research Scholar Department of Astrophysical Sciences, Princeton University
Employment_	
Sep 2017 –	Flatiron Research Fellow
Aug 2018	Center for Computational Astrophysics (CCA), Flatiron Institute
Sep 2016 –	Associate Research Scholar
Aug 2017	Department of Astrophysical Sciences, Princeton University
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
Mar 2011 –	BK21 Postdoctoral Research Fellow
Aug 2011	Department of Physics and Astronomy, Seoul National University, Korea
Teaching Expe	rience
2019 – present	Sanghyuk Moon, Graduate student at Seoul National University Star Formation in Galactic Nuclear Rings – Ph. D. thesis project (with Woong-Tae Kim and Eve Ostriker)
2019 – present	Lachlan Lancaster, Graduate student at Princeton University Globular Cluster Formation in Giant Molecular Clouds – Ph. D. thesis project (with Jeong-Gyu Kim and Eve Ostriker)
2017 – present	Woorak Choi, Graduate student at Yonsei University Ram pressure stripping in resolved multiphase ISM simulations – Ph.D thesis project (with Aeree Chung)
2019 – 2020	Ryan Golant, Undergraduate student at Princeton University Effect of early feedback in regulating star formation rates – Summer research, Senior thesis (with Eve Ostriker)
2018 – 2020	Alwin Mao, Graduate student at Princeton University Bound gas, Dense gas, and Star Formation: a Deceptively Simple Braid – Ph. D. thesis project (with Eve Ostriker)
2018 – 2019	Erin Kado-Fong, Graduate student at Princeton University Diffuse ionized gas in star-forming galactic disks – Semester project (with Jeong-Gyu Kim and Eve Ostriker)

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2018 – 2019	Aditi Vijayan, Graduate student at the Indian Institute of Science Kinematics and dynamics of multiphase outflows – Summer research via Kavli Summer	
	Program in Astrophysics (with Lucia Armillotta, Eve Ostriker, Miao Li)	
2018 - 2019	Kareem El-Badry, Graduate student at the UC Berkeley	
	Evolution of supernovae-driven superbubbles with conduction and cooling – Summer re-	
	search via Kavli Summer Program in Astrophysics (with Eve Ostriker)	
2018	Mohammad Refat, Undergraduate student at the CUNY	
	Metallicity fluctuations in TIGRESS – Summer research via AstroCom NYC	
2018 - 2019	Erin Flowers, Graduate student at Princeton University	
	Turbulence driving and outflows by clustered Supernovae – Semester project (with Eve	
2014 2015	Ostriker)	
2014 - 2015	Roberta Raileanu, Undergraduate student at Princeton University	
	Superbubbles in the multiphase ISM and the loading of galactic winds – Junior Thesis and Summer research (with Eve Ostriker)	
2005 – 2010	· · · · · · · · · · · · · · · · · · ·	
2003 – 2010	Graduate Student Instructor (Teaching Assistant), Seoul National University - Grading problem sets and leading problem-solving sessions for courses including <i>Solar</i>	
	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 programming languages and analysis tools including Fortran, C, and IDL.	
	- Teaching scientific computing and numerical analysis – root-finding, numerical integra-	
	tion, linear algebra, linear regression	
Grants		
2020	PI, Chandra Theory Grant; \$85,000	
2018–2021	Co-I, NASA TCAN (PI: Julian Borrill); \$1,398,099	
Observing Proposals		
2019	Co-I, VLA Extra Large proposal (PI: Adam Leroy), under review	
2019	Co-I, VLA Regular proposal (PI: Woorak Choi), 7.4 hours, rank B	
Computing Ti	me Allocations	
2018-2021	80M CPU hrs, Co-I, NERSC, (PI: Julian Borrill)	
2016–2019	22M CPU hrs (800k SBUs), Co-I, NASA Pleiades, (PI: Eve Ostriker)	
Professional Activities and Service		
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2017 - 2022		
2017 – 2022	Working Group Leader, SMAUG (Simulating Multiscale Astrophysics to Understand	
2017 – 2022		
2017 – 2022	Working Group Leader, SMAUG (Simulating Multiscale Astrophysics to Understand Galaxies) collaboration	
2017 – 2022 2018 – 2021	Working Group Leader, SMAUG (Simulating Multiscale Astrophysics to Understand Galaxies) collaboration leading the working group for "Resolved ISM, Star formation, and Stellar feedback" in the international col-	
	Working Group Leader, SMAUG (Simulating Multiscale Astrophysics to Understand Galaxies) collaboration leading the working group for "Resolved ISM, Star formation, and Stellar feedback" in the international collaboration funded by the Simons Foundation	
	Working Group Leader, SMAUG (Simulating Multiscale Astrophysics to Understand Galaxies) collaboration leading the working group for "Resolved ISM, Star formation, and Stellar feedback" in the international collaboration funded by the Simons Foundation Subnet Leader, NASA Theoretical and Computational Astrophysics Networks	
	Working Group Leader, SMAUG (Simulating Multiscale Astrophysics to Understand Galaxies) collaboration leading the working group for "Resolved ISM, Star formation, and Stellar feedback" in the international collaboration funded by the Simons Foundation Subnet Leader, NASA Theoretical and Computational Astrophysics Networks leading the MHD simulation subnet in the multi-institutional collaboration funded by NASA entitled "Mod-	

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member of the SPICA science case development team for "Diffuse gas in galaxies" 2017 – 2019 Working Group Member, PICO collaboration contributing galactic foreground modeling for a probe-class mission concept study funded by NASA entitled "Probe of Inflation and Cosmic Origins" 2020 Reviewer, NASA FINESST 2017 Review Panelist, NSF AAG Program 2016 – 2017 Organizer, Star Formation/ISM Rendezvous Seminars at Princeton University 2012 — Referee, ApJ, ApJL, MNRAS Invited Reviews 2019 Invited Review, Cosmic turbulence and magnetic fields: physics of baryonic matter across time and scales, Cargése, France 2019 Invited Review, Linking galaxies from the Epoch of initial star-formation to today, Sydney, Australia 2016 Invited Review, How Galaxies Form Stars, Stockholm, Sweden Invited Colloquia 2020 Colloquium, University of Georgia, Athens, GA – remote talk 2020 Colloquium, University of Waterloo, Waterloo, ON, Canada 2019 Colloquium, University of Maryland, College Park, MD 2019 Colloquium, University of Maryland, College Park, MD 2019 Colloquium, Worsei University, Seoul, Korea 2018 Colloquium, Korea Astronomy and Space Science Institute, Daejeon, Korea 2017 Colloquium, University of California, Santa Barbara, CA 2016 Colloquium, University of California, Santa Barbara, CA 2016 Colloquium, Shanghai Jiao Tong University, Shanghai, China 2016 Colloquium, Scoul National University, Seoul, Korea 2014 Colloquium, Korea Astronomy and Space Science Institute, Daejeon, Korea 2014 Colloquium, Scoul National University, Seoul, Korea 2014 Colloquium, Scoul National University, Seoul, Korea 2014 Colloquium, Scoul National University, Seoul, Korea 2014 Colloquium, National Institute for Mathematical Sciences, Daejeon, Korea 2014 Colloquium, National Institute for Mathematical Sciences, Daejeon, Korea 2014 Colloquium, National Institute for Mathematical Sciences, Daejeon, Korea 2010 Invited Talk, CMB-S4 Workshop, UChicago – remote talk Invited Talk, Cosmological Analyses Featuring Galactic Foreground Em	2019 –	Working Group Member, SPICA Nearby Galaxies
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 Colloquium, Korea Astronomy and Space Science Institute, Daejeon, Korea Colloquium, Seoul National University, Seoul, Korea Colloquium, Korea Institute for Advanced Study, Seoul, Korea Colloquium, National Institute for Mathematical Sciences, Daejeon, Korea Colloquium, Yonsei University, Seoul, Korea Conference/Workshop/Seminar Invited Talk, CMB-S4 Workshop, UChicago – remote talk Invited Talk, Midwest Magnetic Field Meeting 2020, Madison, WI – cancelled due to the pandemic Invited Talk, Cosmological Analyses Featuring Galactic Foreground Emission, Lattes, France – cancelled due to the pandemic Contributed Talk, Feedback and its Role in Galaxy Formation, Spetses, Greece 	2016	Colloquium, Korea Astronomy and Space Science Institute, Daejeon, Korea
 Colloquium, Seoul National University, Seoul, Korea Colloquium, Korea Institute for Advanced Study, Seoul, Korea Colloquium, National Institute for Mathematical Sciences, Daejeon, Korea Colloquium, Yonsei University, Seoul, Korea Conference/Workshop/Seminar	2016	Colloquium, Seoul National University, Seoul, Korea
 Colloquium, Korea Institute for Advanced Study, Seoul, Korea Colloquium, National Institute for Mathematical Sciences, Daejeon, Korea Colloquium, Yonsei University, Seoul, Korea Conference/Workshop/Seminar	2014	Colloquium, Korea Astronomy and Space Science Institute, Daejeon, Korea
 Colloquium, National Institute for Mathematical Sciences, Daejeon, Korea Colloquium, Yonsei University, Seoul, Korea Conference/Workshop/Seminar	2014	Colloquium, Seoul National University, Seoul, Korea
 Conference/Workshop/Seminar	2014	Colloquium, Korea Institute for Advanced Study, Seoul, Korea
Conference/Workshop/Seminar 2020 Invited Talk, CMB-S4 Workshop, UChicago – remote talk 2020 Invited Talk, Midwest Magnetic Field Meeting 2020, Madison, WI – cancelled due to the pandemic 2020 Invited Talk, Cosmological Analyses Featuring Galactic Foreground Emission, Lattes, France – cancelled due to the pandemic 2019 Contributed Talk, Feedback and its Role in Galaxy Formation, Spetses, Greece	2011	Colloquium, National Institute for Mathematical Sciences, Daejeon, Korea
 Invited Talk, CMB-S4 Workshop, UChicago – remote talk Invited Talk, Midwest Magnetic Field Meeting 2020, Madison, WI – cancelled due to the pandemic Invited Talk, Cosmological Analyses Featuring Galactic Foreground Emission, Lattes, France – cancelled due to the pandemic Contributed Talk, Feedback and its Role in Galaxy Formation, Spetses, Greece 	2011	Colloquium, Yonsei University, Seoul, Korea
 Invited Talk, Midwest Magnetic Field Meeting 2020, Madison, WI – cancelled due to the pandemic Invited Talk, Cosmological Analyses Featuring Galactic Foreground Emission, Lattes, France – cancelled due to the pandemic Contributed Talk, Feedback and its Role in Galaxy Formation, Spetses, Greece 	Conference/W	/orkshop/Seminar
pandemic 2020 Invited Talk, Cosmological Analyses Featuring Galactic Foreground Emission, Lattes, France – cancelled due to the pandemic 2019 Contributed Talk, Feedback and its Role in Galaxy Formation, Spetses, Greece	2020	Invited Talk, CMB-S4 Workshop, UChicago – remote talk
France – cancelled due to the pandemic Contributed Talk, Feedback and its Role in Galaxy Formation, Spetses, Greece	2020	<u> </u>
Contributed Talk, Feedback and its Role in Galaxy Formation, Spetses, Greece	2020	
	2019	
	2019	

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2019	Invited Talk, Athena++ Workshop 2019, UNLV, Las Vegas, NV
2018	Contributed Talk, THINKSHOP15, Potsdam, Germany
2018	Invited Talk, The Milky Way in the age of Gaia, Orsay, France
2018	Invited Talk, Kavli Summer Program in Astrophysics, CCA, New York, NY
2018	Invited Talk, MPPC Workshop, Princeton, NJ
2018	Invited Talk, CMB Foreground Workshop at CCA, New York, NY
2018	Invited Talk, Computational Galaxy Formation at Ringberg Castle, Germany
2017	Invited Talk, CMB Foreground Workshop at UCSD, San Diego, CA
2017	Invited Talk, The ISM beyond 3D, Orsay, France
2017	Invited Talk, Astrophysics Seminar, UCSB, Santa Barbara, CA
2016	Invited Talk, 7th East-Asia Numerical Astrophysics Meeting, Beijing, China
2016	Invited Talk, Computational Galaxy Formation at Ringberg Castle, Germany
2015	Contributed Talk, Magnetic Fields in the Universe V, Cargése, France
2015	Contributed Talk, IAU Symposium #315, Honolulu, HI
2015	Invited Talk, IAS Informal Seminar, IAS, Princeton, NJ
2014	Invited Talk, 6th East-Asia Numerical Astrophysics Meeting, Suwon, Korea
2014	Invited Talk, KITP Program – Gravity's Loyal Opposition, Santa Barbara, CA
2013	Invited Talk, CITA National Fellow Meeting, Toronto, Canada
2013	Contributed Talk, KAS Spring Meeting, Daecheon, Korea
2012	Invited Talk, IAU General Assembly – SpS12, Beijing, China
2012	Contributed Talk, AAS Meeting #221, Long Beach, CA

Invited Talk. Multi-phase Gas Workshop, CCA, New York, NY

References_

2019

• Eve C. Ostriker

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- Greg L. Bryan (co-sign with Prof. Somerville) gbryan@astro.columbia.edu, +1-212-854-6837 Group Leader, Center for Computational Astrophysics, Flatiron Institute Professor, Department of Astronomy, Columbia University
- James M. Stone

jmstone@ias.edu, +1-609-734-8054 Professor, School of Natural Sciences, Institute for Advanced Study

• Raphael Flauger (cosmological implications) flauger@physics.ucsd.edu, +1-858-534-7504
Professor, Department of Physics, University of California, San Diego

List of Publications (ADS, Google Scholar)

Name: student advised/co-advised by me Publication metrics (based on NASA ADS, as of 2021-04-22): refereed: 30 — citations: 1139 — h-index: 16

Refereed Publications (first author papers: 15 — citations: 932 — h-index: 12)

- 30. **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) [3 citations]
- 29. **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 Starforming Galactic Disk Simulations*, ApJ, **900**, 61, 2020 (arXiv:2006.16315) [16 citations]
- 28. **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) [12 citations]
- 27. **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) [87 citations]
- 26. **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) [76 citations]
- 25. **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) [74 citations]
- 24. **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) [63 citations]
- 23. **Kim, Chang-Goo**; Ostriker, Eve C., *Momentum Injection by Supernovae in the Interstellar Medium*, ApJ, **802**, 99, 2015 (arXiv:1410.1537) [206 citations]
- 22. **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) [37 citations]
- 21. **Kim, Chang-Goo**; Basu, Shantanu, Long-term Evolution of Decaying Magnetohydrodynamic Turbulence in the Multiphase Interstellar Medium, ApJ, **778**, 88, 2013 (arXiv:1309.4996) [4 citations]
- 20. **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) [139 citations]
- 19. **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 (arXiv:1109.0028) [110 citations]
- 18. **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) [17 citations]
- 17. **Kim, Chang-Goo**; Kim, Woong-Tae; Ostriker, Eve C., *Galactic Spiral Shocks with Thermal Instability*, ApJ, **681**, 1148, 2008 (arXiv:0804.0139) [47 citations]

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16. **Kim, Chang-Goo**; Kim, Woong-Tae; Ostriker, Eve C., *Interstellar Turbulence Driving by Galactic Spiral Shocks*, ApJ, **649**, 2006 (arXiv:astro-ph/0608161) [41 citations]

Refereed Publications (second author)_

- 15. Koo, Bon-Chul; **Kim, Chang-Goo**; Park, Sangwook; Ostriker, Eve C., *Radiative Supernova Remnants and Supernova Feedback*, ApJ, **905**, 35, 2020 (arXiv:2011.06322)
- 14. Seon, Kwang-il; **Kim, Chang-Goo**, *Lyα Radiative Transfer: Monte Carlo Simulation of the Wouthuysen-Field Effect*, ApJS, **250**, 9, 2020 (arXiv:2005.00238) [5 citations]
- 13. 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) [8 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 (arXiv:1911.07872) [8 citations]

Refereed Publications (co-author)

- 11. Pandya, V. et al. (incl. CGK; 11/13), First Results from SMAUG: The Need for Preventative Stellar Feedback and Improved Baryon Cycling in Semianalytic Models of Galaxy Formation, ApJ, 905, 4, 2020 (arXiv:2006.16317) [10 citations]
- 10. Gong, Munan; Ostriker, Eve C.; **Kim, Chang-Goo**; Kim, Jeong-Gyu, *The Environmental Dependence of the X_{CO} Conversion Factor*, ApJ, **903**, 142, 2020 (arXiv:2009.14631) [8 citations]
- 9. Fielding, D. B. et al. (incl. CGK; 7/15), 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) [13 citations]
- 8. 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) [6 citations]
- 7. 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) [7 citations]
- 6. Kado-Fong, Erin; 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) [3 citations]
- 5. 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) [23 citations]
- 4. Murray, C. E. et al. (incl. CGK; 7/7), The 21-SPONGE H I Absorption Line Survey. I. The Temperature of Galactic H I, ApJS, 238, 14, 2018 (arXiv:1806.06065) [33 citations]
- 3. 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) [31 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 (arXiv:1612.02017) [16 citations]

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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 (arXiv:1605.07618) [31 citations]

Papers under Review_

- Clark, S. E.; **Kim, Chang-Goo**; Hill, J. Colin; Hensley, Brandon S. *TB*, or not *TB*? The origin of parity-odd quantities in the Galactic polarized dust emission, to be submitted
- Moon, Sanghyuk; Kim, Woong-Tae; Kim, Chang-Goo; Ostriker, Eve C., Star Formation in <u>Nuclear Rings with the TIGRESS Framework</u>, submitted to ApJ (02/2021)
- Lancaster, Lachlan; Ostriker, Eve C.; Kim, Jeong-Gyu; Kim, Chang-Goo, Efficiently Cooled Stellar Wind Bubbles in Turbulent Clouds II. Validation of Theory with Hydrodynamic Simula-tions, submitted to ApJ (12/2020)
- 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, submitted to ApJ (12/2020)
- Moon, Sanghyuk; Kim, Woong-Tae; Kim, Chang-Goo; Ostriker, Eve C., Star Formation in Nuclear Rings with the TIGRESS Framework, 2021 (arXiv:2104.10349)
- Lancaster, Lachlan; Ostriker, Eve C.; Kim, Jeong-Gyu; Kim, Chang-Goo, Efficiently Cooled Stellar Wind Bubbles in Turbulent Clouds II. Validation of Theory with Hydrodynamic Simulations, 2021 (arXiv:2104.07722)
- 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, 2021 (arXiv:2104.07691)
- Pandya, V. et al. (incl. CGK; 8/17), Characterizing mass, momentum, energy and metal outflow rates of multi-phase galactic winds in the FIRE-2 cosmological simulations, 2021 (arXiv:2103.06891)
- 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, 2020 (arXiv:2006.16314) [5 citations]

Conference Proceedings_

- 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.

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