Curriculum Vitae – Chang-Goo Kim

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Education

Mar 2005 – Feb 2011	**Ph. D in Astronomy** Department of Physics and Astronomy, Seoul National University, Korea
Mar 2001 – Feb 2005	**B. S in Astronomy** Department of Physics and Astronomy, Seoul National University, Korea

Current position

Jul 2023 – present	**Research Scholar** Department of Astrophysical Sciences, Princeton University

Employment

Sep 2016 – Jun 2023	**Associate Research Scholar** Department of Astrophysical Sciences, Princeton University
Sep 2017 – Aug 2018	**Flatiron Research Fellow** Center for Computational Astrophysics, Flatiron Institute
Sep 2013 – Aug 2016	**Postdoctoral Research Associate** Department of Astrophysical Sciences, Princeton University
Oct 2011 – Aug 2013	**CITA National Fellow** Department of Physics and Astronomy, University of Western Ontario, Canada

Grants

2022 – 2025	**PI**, NASA Astrophysics Theory Program; $415,564
2019	**PI**, Chandra cycle 21 (Theory); $85,000
2018 – 2021	**Co-I**, NASA TCAN (PI: Julian Borrill); $1,398,099

Research advising

2016 – present	**PhD thesis projects** Roman Hix (Princeton, 2025–), Minghao Guo (Princeton, 2022–2024), Woorak Choi (Yonsei, PhD in 2024), 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** Ronan Hix (Princeton, 2024), Nora Linzer (Princeton, 2022), 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** Jake Grodner (Princeton, 2025), Taeho Kim (Princeton, 2025), Austin Guo (Princeton, 2025), Tejahni Desire (Princeton, 2024), Sajia Shahrin Neha (Princeton, 2023), Ish Kaul (Princeton, 2022), Ryan Golant (Princeton, 2019), Mohammad Refat (CCA/CUNY via AstroCom NYC, 2018), Roberta Raileanu (Princeton, 2014)

Teaching

2021 – present **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

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 Background missions (NASA TCAN)
2022 – 2024 **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

2017 – present **Review Panelist, Reviewer**, NSF AAG, NASA ADAP, NASA FINESST
2012 – present **Referee**, ApJ, MNRAS, JOSS, RASTI, NatA, AA, OJAp
2023 – present **Coordinator**, Daily Astro Coffee at Princeton University
2026 – **Organizer**, Unifying Cosmic-Ray Research: Connecting Astroparticle Phenomenology with Advanced Theories, Simulations, and Observations
2024 – present **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