

# Curriculum Vitae – Chang-Goo Kim

Department of Astrophysical Sciences  
Princeton University  
4 Ivy Lane, Princeton  
NJ 08544, USA

+1-609-933-1180

<http://changgoo.github.io>

ORCID: 0000-0003-2896-3725

[cgkim@astro.princeton.edu](mailto:cgkim@astro.princeton.edu)

## Education

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Mar 2005 – **Ph. D in Astronomy**  
Feb 2011 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

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

## Employment

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Sep 2016 – **Associate Research Scholar**  
Jun 2023 Department of Astrophysical Sciences, Princeton University  
Sep 2017 – **Flatiron Research Fellow**  
Aug 2018 Center for Computational Astrophysics, Flatiron Institute  
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

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2022 – 2024 **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

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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)  
2014 – present **Research projects for undergraduate students**  
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

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- 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

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- 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

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- 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

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- 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 – 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

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- 2017 – present **Review Panelist, Reviewer**, NSF AAG, NASA ADAP, NASA FINESST  
 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

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**Prof. Eve C. Ostriker** [eco@astro.princeton.edu](mailto:eco@astro.princeton.edu)  
 Department of Astrophysical Sciences, Princeton University

**Prof. Rachel S. Somerville** [rsomerville@flatironinstitute.org](mailto:rsomerville@flatironinstitute.org)  
 Center for Computational Astrophysics, Flatiron Institute

**Prof. James M. Stone** [jmstone@ias.edu](mailto:jmstone@ias.edu)  
 School of Natural Sciences, Institute for Advanced Study