

Curriculum Vitae – Chang-Goo Kim

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Education

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

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**
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 – 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

2016 – present **PhD thesis projects**
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**
- 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
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 – 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 ssanimi@astro.wisc.edu
Department of Astronomy, University of Wisconsin-Madison