

Angus “Gus” Beane

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<http://gusbeane.github.io>

Fourth Year Graduate Student

Center for Astrophysics | Harvard & Smithsonian

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Cambridge, MA 02138, USA

Education

BA/MS Physics & Astronomy, University of Pennsylvania. 2019

Positions

Associate Research Assistant, Flatiron Institute, New York, NY. Aug 2018 – Dec 2018

Summer Research Assistant, Flatiron Institute, New York, NY. Jun 2018 – Aug 2018

Research Assistant, University of Richmond, Richmond, VA. Jun 2014 – Jun 2017

Honors & Fellowships

National

NASA FINESST Fellowship. 2020 – 2022

Honorable Mention, NSF GRFP. 2019 & 2020

Barry Goldwater Scholarship. 2018

University

James Mill Peirce Fellowship, Harvard University. 2019

Rose Undergraduate Research Award, University of Pennsylvania. 2019

Dean’s Scholar, University of Pennsylvania. 2019

Phi Beta Kappa, University of Pennsylvania. 2018

Roy & Diana Vagelos Science Challenge Award, University of Pennsylvania. 2017 – 2019

Refereed publications

1. Tu, A. J., Zucker, C., Speagle, J. S., **Beane, A.**, Goodman, A., Alves, J., Faherty, J., & Burkert, A., 2022, [Characterizing the 3D Kinematics of Young Stars in the Radcliffe Wave](#), *Astrophys. J.* **936** 57.
2. Jones, D., Palatnick, S., Chen, R., **Beane, A.**, & Lidz, A., 2021, [Fuzzy Dark Matter and the 21cm Power Spectrum](#), *Astrophys. J.* **913** 7.
3. Angus, R., **Beane, A.**, Price-Whelan, A. M., Newton, E., Curtis, J. L., Berger, T., van Saders, J., Kiman, R., Foreman-Mackey, D., Lu, Y., Anderson, L., & Faherty, J.K., 2020, [Exploring the Evolution of Stellar Rotation Using Galactic Kinematics](#), *Astron. J.* **160** 90.
4. Ness, M. K., Johnston, K. V., Blancato, K., Rix, H.-W., **Beane, A.**, Bird, J. C., & Hawkins, K., 2019, [In the Galactic Disk, Stellar \[Fe/H\] and Age Predict Orbits and Precise \[X/Fe\]](#), *Astrophys. J.* **883** 177.
5. **Beane, A.**, Sanderson, R. E., Ness, M. K., Johnston, K. V., Grion Filho, D., Mac Low, M.-M., Anglés-Alcázar, D., Hogg, D. W., & Laporte, C. F. P., 2019, [The Implications of Local Fluctuations in the Galactic Midplane for Dynamical Analysis in the Gaia Era](#), *Astrophys. J.* **883** 103.
6. **Beane, A.**, Villaescusa-Navarro, F., & Lidz, A., 2019, [Measuring the EoR Power Spectrum Without Measuring the EoR Power Spectrum](#), *Astrophys. J.* **874** 133.

7. **Beane, A.**, Ness, M. K., & Bedell, M., 2018, [Actions Are Weak Stellar Age Indicators in the Milky Way Disk](#), *Astrophys. J.* **867** 31.
8. **Beane, A.** & Lidz, A., 2018, [Extracting Bias Using the Cross-bispectrum: An EoR and 21 cm-\[C II\]-\[C II\] Case Study](#), *Astrophys. J.* **867** 26.
9. **Beane, A.**, Miller III, B., & Parish, C., 2017, [Internal abstraction of dynemycin A: An MD approach](#), *J. Mol. Graph. Model.* **74** 251–264.

Submitted manuscripts

Beane, A., Hernquist, L., D’Onghia, E., Marinacci, F., Conroy, C., Qi, J., Sales, L. V., Torrey, P., Vogelsberger, M. [Stellar Bars in Isolated Gas-Rich Spiral Galaxies Do Not Slow Down](#), *Submitted to ApJ* arXiv:2209.03364

Invited talks

ACS National Meeting, Orlando, FL, USA. Apr 2019

Contributed talks

AAS 235th Meeting, Honolulu, HI, USA. Jan 2020

CCA Intensity Mapping Workshop, New York, NY, USA. Feb 2019

AAS 233rd Meeting, Seattle, WA, USA. Jan 2019

Contributed posters

First Light Summer School, São Paulo, SP, Brazil. Aug 2019

ASBMB National Meeting, Boston, MA, USA. Mar 2015

Informal talks

Cosmology Seminar, Max Planck Insititute for Astrophysics, Garching, Germany. May 2022

Astronomy Seminar, Tufts University, Medford, MA, USA. Mar 2022

Lunch Talk, Massachusetts Institute of Technology, Cambridge, MA, USA. (virtual) Oct 2020

Lunch Talk, University of Wisconsin-Madison, Madison, WI, USA. Feb 2020

Teaching

Harvard University

Teaching Fellow, ASTR 202B (Cosmology). Spring 2022

Teaching Fellow, ASTR 200 (Radiative Processes). Fall 2020

University of Pennsylvania

Grader, ASTR 212 (Introduction to Astrophysics II). Spring 2018

Teaching Assistant, MATH 114 (Multi-variable Calculus). Spring 2017

Teaching Assistant, MATH 104 (Single-variable Calculus). Fall 2016