# Angus "Gus" Beane

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Fourth Year Graduate Student Center for Astrophysics | Harvard & Smithsonian 60 Garden Street, MS-10 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. Jones, D., Palatnick, S., Chen, R., Beane, A., & Lidz, A., 2021, Fuzzy Dark Matter and the 21cm Power Spectrum, Astrophys. J. 913 7.
- 2. 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.
- 3. 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.
- 4. **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.
- 5. Beane, A., Villaescusa-Navarro, F., & Lidz, A., 2019, Measuring the EoR Power Spectrum Without Measuring the EoR Power Spectrum, Astrophys. J. 874 133.
- 6. **Beane, A.**, Ness, M. K., & Bedell, M., 2018, Actions Are Weak Stellar Age Indicators in the Milky Way Disk, *Astrophys. J.* 867 31.

- 7. **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.
- 8. Beane, A., Miller III, B., & Parish, C., 2017, Internal abstraction of dynemicin 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 MNRAS 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 School, São Paulo, SP, Brazil. Aug 2019 ASBMB National Meeting, Boston, MA, USA. Mar 2015

### Informal talks

Cosmology Seminar, Max Planck Institute 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