

# Angus “Gus” Beane

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<http://gusbeane.github.io>

Undergraduate Student

Department of Physics & Astronomy

University of Pennsylvania

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## 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

Rose Undergraduate Research Award, University of Pennsylvania. 2019

Honorable Mention, NSF GRFP. 2019

Dean’s Scholar, University of Pennsylvania. 2019

Barry Goldwater Scholarship. 2018

Phi Beta Kappa, University of Pennsylvania. 2018

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

## 4 Refereed publications

1. **Beane, A.**, Villaescusa-Navarro, F., & Lidz, A., 2019, [Measuring the EoR Power Spectrum Without Measuring the EoR Power Spectrum](#), *Astrophys. J.* **874** 133.
2. **Beane, A.**, Ness, M. K., & Bedell, M., 2018, [Actions Are Weak Stellar Age Indicators in the Milky Way Disk](#), *Astrophys. J.* **867** 31.
3. **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.
4. **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

Ness, M. K., Johnston, K. V., Blancato, K., Rix, H.-W., **Beane, A.**, Bird, J. C., Hawkins, K. [In the Galactic Disk, Stellar \[Fe/H\] and Age Predict Orbits and Precise \[X/Fe\]](#), *Submitted to Astrophys. J.* arXiv:1907.10606

**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. [The Galactic Midplane Is Not a Plane: Implications for Dynamical Analysis with \*Gaia\* Data and Beyond](#), *Submitted to Astrophys. J.* arXiv:1905.08803

## Invited talks

ACS National Meeting, Orlando, FL. Apr 2019

## Contributed talks

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

AAS 233rd Meeting, Seattle, WA. Jan 2019

## **Teaching**

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