

## Curriculum Vitae

### Corey Brummel-Smith

Graduate Student and Research Assistant  
 School of Physics, Georgia Institute of Technology  
<https://cbrummelsmith.github.io/>

#### **I. Earned Degrees**

B.S.	Physics & Astrophysics, <i>magna cum laude</i>	2011-2017	Florida State University, Tallahassee, Florida
M.S.	Physics	2017-2018	Georgia Institute of Technology, Atlanta, Georgia

#### **II. Employment History**

2017	Research Assistant, Department of Physics, College of Sciences, Florida State University (Advisor: Dr. David Collins)		
2017-2018	Teaching Assistant, School of Physics, Georgia Tech		
2018-present	Research Assistant, Center for Relativistic Astrophysics, School of Physics, Georgia Tech (Advisor: Dr. John Wise)		

#### **III. Honors and Awards**

2017-2019	President's Fellowship, Georgia Tech Foundation
November 2018	School of Physics Travel Award, Georgia Tech
2017	Phi Beta Kappa Honor Society
2016	IDEA Grant, Center for Undergraduate Research and Academic Engagement, Florida State University
2016	Invitation to join Sigma Pi Sigma, National Physics Honor Society
Fall 2013, Summer 2014, Spring 2015, Fall 2016	Presidents List (4.0 GPA)
Fall 2014	Golden Key Honor Society
2011-2016	Bright Futures Medallion Scholarship, Florida Department of Education

#### **IV. Research, Scholarship, and Creative Activities**

##### **A. Published Journal Articles**

1. Brummel-Smith, C., Bryan, G., Butsky, I., Corlies, L., Emerick, A., Forbes, J., Fujimoto, Y., Goldbaum, N., Grete, P., Hummels, C., Kim, J.-h., Koh, D., Li, M., Li, Y., Li, X., OShea, B., Peeples, M., Regan, J., Salem, M., Schmidt, W., Simpson, C., Smith, B., Tumlinson, J., Turk, M., Wise, J., Abel, T., Bordner, J., Cen, R., Collins, D., Crosby, B., Edelmann, P., Hahn, O., Harkness, R., Harper-Clark, E., Kong, S., Kritsuk, A., Kuhlen, M., Larrue, J., Lee, E., Meece, G., Norman, M., Oishi, J., Paschos, P., Peruta, C., Razoumov, A., Reynolds, D., Silvia, D., Skillman, S., Skory, S., So, G., Tasker, E., Wagner, R., Wang, P., Xu, H., & Zhao, F. 2019, "ENZO: An Adaptive Mesh Refinement Code for Astrophysics (Version 2.6)," *The Journal of Open Source Software*, 4, 1636. (Author list is alphabetical.)

2. M. Ruszkowski, D. Nagai, I. Zhuravleva, C. Brummel-Smith, Y. Li, E. Hodges-Kluck, H.-Y. K. Yang, K. Basu, J. Chluba, E. Churazov, M. Donahue, A. Fabian, C.-A. Faucher-Giguère, M. Gaspari, J. Hlavacek-Larrondo, M. McDonald, B. McNamara, P. Nulsen, T. Mroczkowski, R. Mushotzky, C. Reynolds, A. Vikhlinin, M. Voit, N. Werner, J. ZuHone, and E. Zweibel, “Supermassive Black Hole Feedback,” *The Bulletin of the American Astronomical Society*, vol. 51, p. 326, May 2019.

## **B. Other Publications and Creative Products**

1. C. Brummel-Smith, Y. Li, D. Nagai, I. Zhuravleva, “Nature of AGN Feedback: Testing Numerical Models with Chandra Observations,” *Kavli Summer Program in Astrophysics Archives*, 2018, <https://kspa.soe.ucsc.edu/sites/default/files/Brummel-Smith%20Report.pdf>

## **C. Presentations**

### **Invited presentations at universities & institutes:**

1. (08/2018) "Nature of AGN Feedback: Testing Numerical Models with Chandra Observations" Kavli Summer Program in Astrophysics. Center for Computational Astrophysics at Flatiron Institute, New York, NY
2. (09/2016) "Magnetic Field Alignment in Simulated Molecular Clouds" President's Showcase of Undergraduate Research Excellence. Tallahassee, FL

### **Contributed presentations at conferences:**

1. (12/2018) Poster - “Children of the First Star: Birth from a Population III Supernova” Stellar Archaeology, Tokyo, Japan

## **D. Other Scholarly and Creative Accomplishments**

Summer 2018 Kavli Summer Program in Astrophysics Fellow  
Center for Computational Astrophysics at Flatiron Institute, New York, NY

## **V. Teaching**

### **A. Courses Taught (last 6 years)**

Fall 2017 PHY 2211 Introductory Physics Recitation  
Spring 2018 PHY 2211 Introductory Physics Recitation

## **VI. Service**

### **A. Public and Community Service**

2018-present Astronomy and computational astrophysics demos for STEM groups:  
- Stempower at Georgia Tech  
- Science Olympiad  
2016-2017 Astronomy Club of Florida State University, Senior Leader:  
- Founding member of the first astronomy club at FSU  
- Taught undergraduates how use telescopes  
- Gave advice on how to get involved with undergraduate research