**Andrew Emerick**

emerick@astro.columbia.edu

## a. Professional Preparation

University of Minnesota Physics B.S., 2013

University of Minnesota Astrophysics B.S., 2013

Columbia University Astronomy M.A., 2015

Columbia University Astronomy M.Phil, 2016

Columbia University Astronomy Ph.D., 2019 (expected)

## b. Appointments

2018 – Pres. Blue Waters Graduate Fellow, Dept. of Astronomy, Columbia University

2014 – 2018 NSF Graduate Research Fellow, Dept. of Astronomy, Columbia University

2013 – 2014 Graduate Research Assistant, Dept. of Astronomy, Columbia University

2009 – 2013 Undergraduate Research Assistant, Dept. of Astronomy, University of Minnesota

## c. Publications

1. **Emerick, A**, Bryan, G.L., Mac Low, M-M. “Simulating an Isolated Dwarf Galaxy with Energetic Feedback and Chemical Yields from Individual Stars”, 2018, submitted to MNRAS
2. Smith, B., et. al. “Grackle: a Chemistry and Cooling Library for Astrophysics”, 2017, MNRAS, 466
3. **Emerick, A.,** Mac Low, M-M., Grcevich, J., Gatto, A. “Gas Loss by Ram Pressure Stripping and Internal Feedback From Low Mass Milky Way Satellites”, 2016, ApJ, 826:2
4. **Emerick, A.,** Bryan, G.L., Putman, M.E. “Warm Gas in and Around Simulated Galaxy Clusters Probed by Absorption Lines”, 2015 MNRAS 453
5. **Emerick, A.** Zhao, X., Rapp, R., “Bottomonia in the Quark-Gluon Plasma and

their Production at RHIC and LHC”, Eur. Phys. J. A (2012) 47:72

1. Brown, S., **Emerick**, **A**,. Rudnick, L., Brunetti, G., “Probing the Off-State of Cluster Radio Halos”, 2011, ApJ 740 L28

#### d. Synergistic Activities

* Regularly volunteer for bi-weekly public outreach talks and rooftop star gazing at Columbia University
* Volunteer giving talks on Astronomy and acting as science fair judge to local inner-city middle school in Harlem, NYC.
* Regular writer/contributor to Astrobites from 2013-2015, which publishes daily paper summaries geared towards undergraduate physics / astronomy majors. Readership includes undergraduates and graduates, as well as members of the general public and more advanced researchers across a variety of disciplines.

### **e. Collaborators & Other Affiliations**

* G. Bryan, K. Johnston, M. Putman: Dept. of Astronomy, Columbia University
* B. Côté, B. O’Shea: Dept. of Astronomy, Michigan State University, MI
* A. Gatto: Max-Planck-Institut für Astrophysik, Garching, Germany
* S. Glover, E. Pelligrini: Zentrum Für Astronomie, ITA, University of Heidelberg, Germany
* M-M. Mac Low: American Museum of Natural History, New York, NY
* B. Smith: Institute of Astronomy, San Diego Supercomputer Center, San Diego, CA

#### (ii) Graduate and Postdoctoral Advisors

#### Greg Bryan

#### Dept. of Astronomy, Columbia University

#### Center for Computational Astrophysics, Flatiron Institute

* Mordecai-Mark Mac Low

Dept. of Astrophysics, American Museum of Natural History