Catherine Zucker

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Last Updated January 2020

EDUCATION

Harvard University: PhD in Astronomy

Spring 2020

Dissertation: Charting our Uncharted Milky Way Advisors: Alyssa Goodman & Douglas Finkbeiner

Harvard University: M.A. in Astronomy and Astrophysics

Fall 2017

University of Virginia: B.A. in Astronomy-Physics and History

Spring 2015

PROFESSIONAL APPOINTMENTS

Postdoctoral Fellow, Center for Astrophysics (Harvard)

Summer 2020 - Present

PUBLICATIONS

I have co-authored 22 publications (refereed/under review). This includes 8 first-author publications [with over 200 total citations] and 2 second-author publications. My second-author publications include one *Nature* publication, and one undergraduate student-led publication for which I served as the primary science advisor. A full listing of my publications can be found on the ADS.

First Author/co-PI

- 1. **Zucker, C.**, Speagle, J., Schlafly, E., Green, G., Finkbeiner, D., Goodman, A., Alves, J. 2020. A&A. 633, A51. A Compendium of Distances to Molecular Clouds in the Star Formation Handbook.
- 2. **Zucker, C.**, Smith, R., Goodman, A. 2019. *ApJ*, 887, 186. Synthetic Large-Scale Galactic Filaments on their Formation, Physical Properties, and Resemblance to Observations.
- 3. **Zucker, C.** & Speagle, J, Schlafly, E., Green, G., Finkbeiner, D., Goodman, A., Alves, J. 2019. *ApJ*, 879, 125. A Large Catalog of Accurate Distances to Local Molecular Clouds: The Gaia DR2 Edition.
- 4. **Zucker, C.**, Schlafly, E., Green, G., Speagle, J., Portillo, S., Finkbeiner, D., Goodman, A. 2018. *ApJ*, 869, 83. Mapping Distances across the Perseus Molecular Cloud Using CO Observations, Stellar Photometry, and Gaia DR2 Parallax Measurements.
- 5. **Zucker, C.** & Chen, H. H. 2018. *ApJ*, 864, 162. RadFil: A Python Package for Building and Fitting Radial Profiles for Interstellar Filaments.
- 6. **Zucker, C.**, Battersby, C., Goodman, A. 2018. *ApJ*, 864, 2. The Physical Properties of Large-scale Galactic Filaments.
- 7. **Zucker, C.**, Walker, L.M., Johnson, K., Gallagher, S., Alatalo, K., Tzanavaris, P. 2016. *ApJ*, 821, 113. Hierarchical Formation in Action: Characterizing Accelerated Galaxy Evolution in Compact Groups using Whole-Sky WISE Data.
- 8. **Zucker**, C., Battersby, C., Goodman, A. 2015. ApJ, 815, 23. The Skeleton of the Milky Way.

Second Author

- 1. Das, K., **Zucker, C.**, Speagle, J., Goodman, A., Green, G., and Alves, J. 2020. MNRAS. 498, 4. Constraining the Distance to the North Polar Spur with Gaia DR2.
- 2. Alves, J., **Zucker**, C., Goodman, A., Speagle, J., Meingast, S., Robitaille, T., Finkbeiner, D., Schlafly, E., Green, G. 2020. *Nature*, 578, 237. A Galactic-scale gas wave in the Solar Neighborhood.

Other Co-Authored Publications

- 1. Grasser, N., Ratzenböck, S., Alves, J., Großschedl, J., Meingast, S., **Zucker, C.**, Hacar, A., Lada, C., Goodman, A., Lombardi, M., Forbes, J., Bomze, I., and Möller, T., 2021. A&A. Submitted. The ρ Oph region revisited with Gaia EDR3: Two young populations, new members, and old impostors.
- 2. Swiggum, C., D'Onghia, E., Alves, J., Großschedl, J., Foley, M., **Zucker, C.**, Meingast, S., Chen, B., Goodman, A. 2021. *ApJ*. Submitted. Evidence for Radial Expansion at the Core of the Orion Complex with Gaia EDR3.
- 3. Kong, S., Arce, H., Carpenter, J., [9 authors], **Zucker, C.**, [5 authors]. *ApJ*, 2021. Submitted. High-resolution CARMA Observations of Molecular Gas in the North America and Pelican Nebulae.
- 4. Green, G., Rix, H-W., Tschesche, L., Finkbeiner, D., **Zucker, C.**, Schlafly, E., Rybizki, J., and Speagle, J. 2020. *ApJ.* Submitted. Data-Driven Stellar Models.
- Izquierdo, A., Smith, R., Glover, S., Klessen, R., Treß, R., Sormani, M., Clark, P., Duarte-Cabral, A., and Zucker, C. 2020. MNRAS. Accepted. The Cloud Factory II: Gravoturbulent Line-Widths of Resolved Molecular Clouds in a Galactic Potential.
- Wang, Y., Beuther, H., Schneider, N., Meidt, S., Linz, H., Ragan, S., Zucker, C, Battersby, C., Soler, J., Schinnerer, E., Bigiel, F., Colombo, D. and Henning T. 2020. A&A, 641, A53. Dense Gas in a Giant Molecular Filament.
- Smith, R. J., Tress, R., Sormani, C., Clover, S. Klessen, R., Clark, P., Izquierdo, A., Duarte-Cabral, A., Zucker, C. 2019. MNRAS, 492, 1594. The Cloud Factory I: Generating resolved filamentary molecular clouds from galactic-scale forces.
- 8. Green, G., Schlafly, E., **Zucker, C.**, Speagle, J., Finkbeiner, D. 2019. MNRAS, 887, 93. A 3D Dust Map Based on Gaia, Pan-STARRS 1 and 2MASS.
- 9. Fissel, L. & 39 co-authors, including **Zucker**, C. 2019. *ApJ*, 878, 110. Relative Alignment between the Magnetic Field and Molecular Gas Structure in the Vela C Giant Molecular Cloud Using Low- and Highdensity Tracers.
- 10. Monsch, K., Pineda, J., Liu, H.B., **Zucker, C.**, H., Chen, H., Pattle, K., Offner, S., Di Francesco, J., Ginsburg, A., Ercolano, B., Arce, H., Friesen, R., Kirk, H., Caselli, P., Goodman, A. 2018. *ApJ*, 861, 77. Dense Gas Kinematics and a Narrow Filament in the Orion A OMC1 Region using NH₃.
- 11. Lisenfeld, U., Alatalo, K., **Zucker, C.**, Appleton, P. N., Gallagher, S., Guillard, P., Johnson, K.. 2017. A&A, 607, A110. The Role of Molecular Gas in Galaxy Transition in Compact Groups.
- 12. Walker, L.M., Butterfield, N., Johnson, K., **Zucker, C.**, Gallagher, S., Konstantopoulos, I., Hornschemeier, A., Tzanavaris, P., Charlton, J. 2013. *ApJ*, 775,129. The Optical Green Valley vs Mid-IR Canyon in Compact Groups.

PRESENTATIONS

I have given a total of 29 talks, including 13 invited talks and colloquia:

Invited

1. **Tea Talk**, KIPAC Tea November 2020

2. **Seminar**, Ringberg Virtual Seminar Series November 2020

3. Lunch Talk, STScI Low Density Universe October 2020

4. Colloquium, University of Wisconsin-Madison September 2020

5. Colloquium, ITC Colloquium (Harvard CfA) September 2020

6. Conference Talk, AAS 236 Meeting-in-Meeting: The ISM in the Era of Big Data

June 2020

8. Conference Talk, The self-organized star formation process (Orsay, France) 9. Colloquium (with J. Speagle), SAO REU Summer Colloquium (Harvard CfA) 10. Lunch Talk, TTC Luncheon (Harvard CfA) 11. Conference Talk, The Milky Way in the Age of Gaia (Orsay, France) 12. Lunch Talk, MIT Haystack 13. Lunch Talk, Workshop, Dunlap Institute (Toronto, Canada) Contributed 14. Lunch Seminar, Harvard Astrostatistics Group (Harvard University) 15. Lunch Seminar, University of Washington (Seattle, Washington) 16. Conference Talk, NE Regional Star Formation Meeting (U. Conn.) 17. Conference Talk, Harvard-Heidelberg Meeting on Star Formation (Cambridge, MA) 18. Conference Talk, Regional Regional SF Meeting (UMass) 18. Conference Talk, New England Regional SF Meeting (UMass) 18. Conference Talk, New England Regional SF Meeting (UMass) 19. Conference Talk, Interstellar Filament Paradigm (Nagoya, Japan) 19. Conference Talk, The Olympian Symposium (Paralia, Greece) 10. Workshop Session Lead, AAS Splinter Session (Washington, DC) 11. Conference Talk, Sun, Stars, and Galaxies (U. Manchester, UK) 12. Lunch Talk, Sun, Stars, and Galaxies (U. Manchester, UK) 13. Conference Talk, Filamentary Structure in Molecular Clouds (Charlottesville, VA) 14. Conference Talk, SAO Astronomy Intern Symposium (Harvard CfA) 15. Conference Talk, Rowe England Region SF Meeting 16. Conference Talk, Filamentary Structure in Molecular Clouds (Charlottesville, VA) 16. Intern Talk, SAO Astronomy Intern Symposium (Harvard CfA) 16. Intern Talk, SAO Astronomy Intern Symposium (Harvard CfA) 26. Spring 2020 27. Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) 28. Conference Talk, Filamentary Structure in Molecular Clouds (Charlottesville, VA) 29. Conference Talk, SAO Astronomy Intern Symposium (Harvard CfA) 29. Fireman Fellow 29. Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) 20. Competitively selected to lead a review chapter and accompanying review talk 20. At the	7	Colloquium, AMNH (New York, New York)	December 2019
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7. Conference Talk, Harvard Heidelberg Meeting on Star Formation (MPIA) 8. Conference Talk, Interstellar Filament Paradigm (Nagoya, Japan) 9. Conference Talk, The Olympian Symposium (Paralia, Greece) 10. Workshop Session Lead, AAS Splinter Session (Washington, DC) 11. Conference Talk, Sun, Stars, and Galaxies (U. Manchester, UK) 12. Lunch Talk, Harvard Astrostats Day (Harvard CfA) 13. Conference Talk, Galactic Star Formation with Survey (MPIA) 14. Conference Talk, New England Region SF Meeting 15. Conference Talk, Filamentary Structure in Molecular Clouds (Charlottesville, VA) 16. Intern Talk, SAO Astronomy Intern Symposium (Harvard CfA) SELECTED AWARDS/HONORS Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) Competitively selected to lead a review chapter and accompanying review talk at the upcoming Protostars and Planets VII meeting Fireman Fellow Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive	5.	Conference Talk, Crete III – Through dark lanes to new stars (Heraklion, Crete)	September 2019
8. Conference Talk, Interstellar Filament Paradigm (Nagoya, Japan) 9. Conference Talk, The Olympian Symposium (Paralia, Greece) 10. Workshop Session Lead, AAS Splinter Session (Washington, DC) 11. Conference Talk, Sun, Stars, and Galaxies (U. Manchester, UK) 11. Conference Talk, Harvard Astrostats Day (Harvard CfA) 12. Lunch Talk, Harvard Astrostats Day (Harvard CfA) 13. Conference Talk, Galactic Star Formation with Survey (MPIA) 14. Conference Talk, New England Region SF Meeting 15. Conference Talk, Filamentary Structure in Molecular Clouds (Charlottesville, VA) 16. Intern Talk, SAO Astronomy Intern Symposium (Harvard CfA) SELECTED AWARDS/HONORS Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) Competitively selected to lead a review chapter and accompanying review talk at the upcoming Protostars and Planets VII meeting Fireman Fellow Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive	6.	Conference Talk, New England Regional SF Meeting (UMass)	Januay 2019
9. Conference Talk, The Olympian Symposium (Paralia, Greece) 10. Workshop Session Lead, AAS Splinter Session (Washington, DC) 11. Conference Talk, Sun, Stars, and Galaxies (U. Manchester, UK) 12. Lunch Talk, Harvard Astrostats Day (Harvard CfA) 13. Conference Talk, Galactic Star Formation with Survey (MPIA) 14. Conference Talk, New England Region SF Meeting 15. Conference Talk, Filamentary Structure in Molecular Clouds (Charlottesville, VA) 16. Intern Talk, SAO Astronomy Intern Symposium (Harvard CfA) SELECTED AWARDS/HONORS Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) Competitively selected to lead a review chapter and accompanying review talk at the upcoming Protostars and Planets VII meeting Fireman Fellow Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive	7.	Conference Talk, Harvard Heidelberg Meeting on Star Formation (MPIA)	December 2018
10. Workshop Session Lead, AAS Splinter Session (Washington, DC) 11. Conference Talk, Sun, Stars, and Galaxies (U. Manchester, UK) 12. Lunch Talk, Harvard Astrostats Day (Harvard CfA) 13. Conference Talk, Galactic Star Formation with Survey (MPIA) 14. Conference Talk, New England Region SF Meeting 15. Conference Talk, Filamentary Structure in Molecular Clouds (Charlottesville, VA) 16. Intern Talk, SAO Astronomy Intern Symposium (Harvard CfA) SELECTED AWARDS/HONORS Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) Competitively selected to lead a review chapter and accompanying review talk at the upcoming Protostars and Planets VII meeting Fireman Fellow Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive	8.	Conference Talk, Interstellar Filament Paradigm (Nagoya, Japan)	November 2018
11. Conference Talk, Sun, Stars, and Galaxies (U. Manchester, UK) 12. Lunch Talk, Harvard Astrostats Day (Harvard CfA) 13. Conference Talk, Galactic Star Formation with Survey (MPIA) 14. Conference Talk, New England Region SF Meeting 15. Conference Talk, Filamentary Structure in Molecular Clouds (Charlottesville, VA) 16. Intern Talk, SAO Astronomy Intern Symposium (Harvard CfA) SELECTED AWARDS/HONORS Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) Competitively selected to lead a review chapter and accompanying review talk at the upcoming Protostars and Planets VII meeting Fireman Fellow Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive	9.	Conference Talk, The Olympian Symposium (Paralia, Greece)	May 2018
12. Lunch Talk, Harvard Astrostats Day (Harvard CfA) 13. Conference Talk, Galactic Star Formation with Survey (MPIA) 14. Conference Talk, New England Region SF Meeting 15. Conference Talk, Filamentary Structure in Molecular Clouds (Charlottesville, VA) 16. Intern Talk, SAO Astronomy Intern Symposium (Harvard CfA) SELECTED AWARDS/HONORS Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) Competitively selected to lead a review chapter and accompanying review talk at the upcoming Protostars and Planets VII meeting Fireman Fellow Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive	10.	Workshop Session Lead, AAS Splinter Session (Washington, DC)	January 2018
13. Conference Talk, Galactic Star Formation with Survey (MPIA) 14. Conference Talk, New England Region SF Meeting 15. Conference Talk, Filamentary Structure in Molecular Clouds (Charlottesville, VA) 16. Intern Talk, SAO Astronomy Intern Symposium (Harvard CfA) SELECTED AWARDS/HONORS • Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) Competitively selected to lead a review chapter and accompanying review talk at the upcoming Protostars and Planets VII meeting • Fireman Fellow Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work • Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive	11.	Conference Talk, Sun, Stars, and Galaxies (U. Manchester, UK)	October 2017
14. Conference Talk, New England Region SF Meeting 15. Conference Talk, Filamentary Structure in Molecular Clouds (Charlottesville, VA) 16. Intern Talk, SAO Astronomy Intern Symposium (Harvard CfA) SELECTED AWARDS/HONORS Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) Competitively selected to lead a review chapter and accompanying review talk at the upcoming Protostars and Planets VII meeting Fireman Fellow Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive	12.	Lunch Talk, Harvard Astrostats Day (Harvard CfA)	September 2017
15. Conference Talk, Filamentary Structure in Molecular Clouds (Charlottesville, VA) 16. Intern Talk, SAO Astronomy Intern Symposium (Harvard CfA) SELECTED AWARDS/HONORS • Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) Competitively selected to lead a review chapter and accompanying review talk at the upcoming Protostars and Planets VII meeting • Fireman Fellow Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work • Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive	13.	Conference Talk, Galactic Star Formation with Survey (MPIA)	July 2017
16. Intern Talk, SAO Astronomy Intern Symposium (Harvard CfA) SELECTED AWARDS/HONORS Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) Competitively selected to lead a review chapter and accompanying review talk at the upcoming Protostars and Planets VII meeting Fireman Fellow Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive	14.	Conference Talk, New England Region SF Meeting	January 2016
SELECTED AWARDS/HONORS • Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) Competitively selected to lead a review chapter and accompanying review talk at the upcoming Protostars and Planets VII meeting • Fireman Fellow Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work • Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive	15.	Conference Talk, Filamentary Structure in Molecular Clouds (Charlottesville, VA)	October 2014
 Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) Competitively selected to lead a review chapter and accompanying review talk at the upcoming Protostars and Planets VII meeting Fireman Fellow Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive 	16.	Intern Talk, SAO Astronomy Intern Symposium (Harvard CfA)	August 2014
 Protostars & Planets VII Chapter Lead (The Solar Neighborhood in the Age of Gaia) Competitively selected to lead a review chapter and accompanying review talk at the upcoming Protostars and Planets VII meeting Fireman Fellow Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive 			
Competitively selected to lead a review chapter and accompanying review talk at the upcoming Protostars and Planets VII meeting • Fireman Fellow Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work • Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive	SI	ELECTED AWARDS/HONORS	
Department's highest honor, awarded by the Harvard Astronomy Faculty to a single graduating PhD student on the basis of his or her doctoral work • Harvard-Horizons 2020 Scholar Top eight graduate students selected across Harvard to receive		Competitively selected to lead a review chapter and accompanying review talk	Fall 2020
Top eight graduate students selected across Harvard to receive		Department's highest honor, awarded by the Harvard Astronomy Faculty	Spring 2020
		Top eight graduate students selected across Harvard to receive	Spring 2020
• Harvard Astronomy Departmental Teaching Award Spring 2018	•	Harvard Astronomy Departmental Teaching Award	Spring 2018
• Certificate of Distinction in Teaching, Harvard University Fall 2017, Spring 2019	•	Certificate of Distinction in Teaching, Harvard University	Fall 2017, Spring 2019
• La Serena School for Data Science Full Scholarship	•	La Serena School for Data Science Full Scholarship	Summer 2017
• La serena sensor for Dava serence I an sensiarismp	•	NSF Graduate Research Fellowship Award	Fall 2016-Spring 2020
•	•	Merrill Graduate Fellowship, Harvard University	Fall 2015-Spring 2017
•			• •
• NSF Graduate Research Fellowship Award Fall 2016-Spring 2020	•	merrin Graduate renowship, marvard University	ran 2019-5pring 2017

• Peirce Fellowship, Harvard Astronomy Fellowship for top three admitted Harvard Astronomy applicants	Fall 2015-Fall 2018
• UVA Undergraduate Physics Research Symposium, 1st Place	Fall 2014
• Vyssotsky Prize, University of Virginia Awarded to one outstanding third year astrophysics major	Spring 2014
• Double Hoo Research Award, University of Virginia Supports joint research between undergraduate and PhD students	Spring 2014
• Intermediate Honors, University of Virginia	Fall 2013
• Virginia Space Grant Consortium Research Fellowship	Summer 2013–Spring 2014
• Kate Cabell Claiborne Cox Scholarship, University of Virginia Awarded to one outstanding third year history major	Spring 2013
• Harrison Research Award, University of Virginia	Summer 2013–Spring 2014
• Echols Scholarship Fund Grant, University of Virginia	Summer 2012
• Small Research and Travel Grant, University of Virginia	Summer 2012
• Wolfe Undergraduate Docent Award, University of Virginia	Spring 2012
• Echols Scholar, University of Virginia	Fall 2011–Fall 2015

TEACHING, MENTORING, & OUTREACH

Teaching

I have served as a teaching fellow for an undergraduate and a graduate course. Both times, I received the Bok Certificate of Distinction in Teaching, based on high student evaluations. I also received the Harvard Astronomy departmental award for teaching excellence.

• Physics & Chemistry of the ISM, Harvard University.

Spring 2019

• Galactic & Extragalactic Astronomy, Harvard University.

Fall 2017

Mentoring

I have served as a primary science advisor for five undergraduate students:

• Diana Khimey (Harvard University)

How Young Stars Leave Home

Code available on pypi.

Winter 2020 - Present

• Shlomo Cahlon (Harvard University). Senior Thesis Research.

A Uniform Catalog of Local Clouds Based on 3D Dust Mapping

Fall 2020 - Present

• Alan Tu (Harvard University). PRISE Research. Characterizing the 3D Motion of a Galactic-scale Gas Wave

Summer 2019 - Fall 2020

Summer 2020 - Present

- Kaustav Das (IIT Kanpur).

 Constraining the Distance to the North Polar Spur with Gaia DR2

 Published in MNRAS.
- Laura Chapman (Harvard University). Summer 2018

 A Statistics Plugin for the glue Visualization Environment.

Education and Public Outreach

September 2011–May 2015

PROFESSIONAL ACTIVITIES

• Harrison Institute for American History Docent

• Plate Vetter, SDSS-V Dust Team	Fall 2020 - Present
• Referee for ApJ , $A\mathcal{E}A$, $MNRAS$, and AJ	Fall 2018 - Present
• Star Formation Newsletter, Associate Editor	Winter 2020 - Present
• Harvard Data Science Review, Emerging Scholars Board	Spring 2020 - Present
• SOC, Harvard-Heidelberg Star Formation Meetings	Fall 2019, Winter 2020
• CfA Star Formation Journal Club Series Co-Organizer	Spring 2018 - Present
• Core member, glue visualization software team	Spring 2017 - Present
• American Astronomical Society member	Fall 2015 - Present

PRESS

Hundreds of news stories covering the discovery of a *Galactic-scale Gas Wave in the Solar Neighborhood*. For full details, see our official website. Some interview highlights include:

• Appeared live on NPR's Science Friday	January 2020
• Interview with The Associated Press	January 2020
• Interview with the Harvard Gazette	January 2020
• Interview with Popular Science	January 2020