

Adam Ginsburg  
Fellow, European Southern Observatory  
Karl-Schwarzschild-Str. 2 85748  
Garching bei Munchen  
e-mail: adam.g.ginsburg@gmail.com or adam.ginsburg@eso.org  
Website: <http://www.adamginsburg.com/>

## **Educational Background & Professional Employment:**

- 2013 - present - Fellow, European Southern Observatory
- 2013 PhD Astrophysics - University of Colorado, Boulder
- 2009 M.S. Astrophysics - University of Colorado, Boulder
- 2006 B.S. Astrophysics - Rice University
- 2007-2012 - Graduate Research Assistant - Center for Astrophysics and Space Astronomy, University of Colorado, Boulder, CO
- 2007-2010 - Teaching Assistant - Department of Astrophysical and Planetary Sciences, University of Colorado, Boulder, CO
- 2007 - Research Assistant - Department of Physics and Astronomy, University of Denver, Denver, CO

## **Areas of Research:**

The astrophysics of massive star formation and the interstellar medium, with a focus on millimeter observations of proto-cluster clumps and massive outflows. Observing with single-dish heterodyne and continuum millimeter instruments, single dish and synthesis array radio imaging, and optical and near infrared imaging and spectroscopy.

## **Conferences:**

- PP6 Poster “Gemini GEMS AO imaging of the Orion Outflow”
- Labyrinth of Star Formation, June 21, 2012: Surveying pre-stellar gas with the BGPS
- MW2011 Contributed Talk “The Bolocam Galactic Plane Survey”
- Stars to Galaxies 2010 Poster “Star Formation in Perseus Arm Complexes”
- AAS 217 Poster “Formaldehyde Densitometry of Dust Clumps: The shapes and densities of massive star forming regions”

- AAS 215 Poster “The Bolocam Galactic Plane Survey: Data, Early Results, and Future Directions”
- IRAM single-dish summer school 2009
- VLA synthesis imaging summer school and summer REU 2006

### **Teaching:**

- Instructor of Record for ASTR 2600: Introduction to Programming for Scientists, Fall 2012 and Spring 2013
- Summer 2010 Co-taught ASTR 1020 - Stars and Galaxies
- Fall 2007-2011 Teaching Assistant for advanced undergraduate labs ASTR 3510 - Imaging and ASTR3520 - Spectroscopy

### **Honors/Awards:**

- 2011 University of Colorado Chance Irick Cooke Fellowship
- 2010 NRAO Green Bank Student Observing Support
- 2008,2009,2010 NSF GRFP Honorable Mention
- 2008 NRAO Photo Contest First Prize
- 2008 University of Colorado Astrophysical and Planetary Sciences Excellence in Teaching award
- 2006 National Radio Astronomy Observatory - summer REU with David Meiers

## Publications:

- [1] Shirley, Y. L., Ellsworth-Bowers, T. P., Svoboda, B., Schlingman, W. M., **Ginsburg**, A., Rosolowsky, E., Gerner, T., Mairs, S., Battersby, C., Stringfellow, G., Dunham, M. K., Glenn, J., & Bally, J., *The Bolocam Galactic Plane Survey. X. A Complete Spectroscopic Catalog of Dense Molecular Gas Observed toward 1.1 mm Dust Continuum Sources with 7.5Jy194*, November, 2013, ApJS, 209, 2
- [2] Astropy Collaboration, Robitaille, T. P., Tollerud, E. J., Greenfield, P., Droettboom, M., Bray, E., Aldcroft, T., Davis, M., **Ginsburg**, A., Price-Whelan, A. M., Kerzendorf, W. E., Conley, A., Crighton, N., Barbary, K., Muna, D., Ferguson, H., Grollier, F., Parikh, M. M., Nair, P. H., Unther, H. M., Deil, C., Woillez, J., Conseil, S., Kramer, R., Turner, J. E. H., Singer, L., Fox, R., Weaver, B. A., Zabalza, V., Edwards, Z. I., Azalee Bostroem, K., Burke, D. J., Casey, A. R., Crawford, S. M., Dencheva, N., Ely, J., Jenness, T., Labrie, K., Lim, P. L., Pierfederici, F., Pontzen, A., Ptak, A., Refsdal, B., Servillat, M., & Streicher, O., *Astropy: A community Python package for astronomy*, October, 2013, A&A, 558, A33
- [3] **Ginsburg**, A., Federrath, C., & Darling, J., *A measurement of the turbulence-driven density distribution in a non-star-forming molecular cloud*, October, 2013, ArXiv e-prints
- [4] **Ginsburg**, A., Glenn, J., Rosolowsky, E., Ellsworth-Bowers, T. P., Battersby, C., Dunham, M., Merello, M., Shirley, Y., Bally, J., Evans, II, N. J., Stringfellow, G., & Aguirre, J., *The Bolocam Galactic Plane Survey. IX. Data Release 2 and Outer Galaxy Extension*, October, 2013, ApJS, 208, 14
- [5] Kendrew, S., **Ginsburg**, A., Johnston, K., Beuther, H., Bally, J., Cyganowski, C. J., & Battersby, C., *Early-stage Massive Star Formation near the Galactic Center: Sgr C*, October, 2013, ApJ, 775, L50
- [6] Fallscheer, C., Reid, M. A., Di Francesco, J., Martin, P. G., Hill, T., Hennemann, M., Nguyen-Luong, Q., Motte, F., Men'shchikov, A., André, P., Ward-Thompson, D., Griffin, M., Kirk, J., Konyves, V., Rygl, K. L. J., Sadavoy, S., Sauvage, M., Schneider, N., Anderson, L. D., Benedettini, M., Bernard, J.-P., Bontemps, S., **Ginsburg**, A., Molinari, S., Polychroni, D., Rivera-Ingraham, A., Roussel, H., Testi, L., White, G., Williams, J. P., Wilson, C. D., Wong, M., & Zavagno, A., *Herschel Reveals Massive Cold Clumps in NGC 7538*, August, 2013, ApJ, 773, 102
- [7] Ellsworth-Bowers, T. P., Glenn, J., Rosolowsky, E., Mairs, S., Evans, II, N. J., Battersby, C., **Ginsburg**, A., Shirley, Y. L., & Bally, J., *The Bolocam Galactic Plane Survey. VIII. A Mid-infrared Kinematic Distance Discrimination Method*, June, 2013, ApJ, 770, 39
- [8] Margutti, R., Milisavljevic, D., Soderberg, A. M., Chornock, R., Zauderer, B. A., Murase, K., Guidorzi, C., Sanders, N. E., Kuin, P., Fransson, C., Levesque, E. M., Chandra, P., Berger, E., Bianco, F. B., Brown, P. J., Challis, P., Chatzopoulos, E., Cheung, C. C., Choi, C., Chomiuk, L., Chugai, N., Contreras, C., Drout, M. R., Fesen, R., Foley, R. J., Fong, W., Friedman, A. S., Gall, C., Gehrels, N., Hjorth, J., Hsiao, E., Kirshner, R., Im, M., Leloudas, G., Lunnan, R., Marion, G. H., Martin, J., Morrell, N., Neugent, K. F., Omodei, N., Phillips, M. M., Rest, A., Silverman, J. M., Strader, J., Stritzinger, M. D., Szalai, T., Utterback, N. B., Vinko, J., Wheeler, J. C., Arnett, D., Campana, S., Chevalier, R., **Ginsburg**, A., Kamble, A., Roming, P. W. A., Pritchard, T., & Stringfellow, G., *A panchromatic view of the restless SN2009ip reveals the explosive ejection of a massive star envelope*, May, 2013, ArXiv e-prints
- [9] Harvey, P. M., Fallscheer, C., **Ginsburg**, A., Terebey, S., André, P., Bourke, T. L., Di Francesco, J., Könyves, V., Matthews, B. C., & Peterson, D. E., *A First Look at the Auriga-California Giant Molecular Cloud with Herschel and the CSO: Census of the Young Stellar Objects and the Dense Gas*, February, 2013, ApJ, 764, 133

- [10] Smith, N., Arnett, W. D., Bally, J., **Ginsburg**, A., & Filippenko, A. V., *The ring nebula around the blue supergiant SBW1: pre-explosion snapshot of an SN 1987A twin*, February, 2013, MNRAS, 429, 1324
- [11] Levesque, E. M., Stringfellow, G. S., **Ginsburg**, A. G., Bally, J., & Keeney, B. A., *The Peculiar Balmer Decrement of SN 2009ip: Constraints on Circumstellar Geometry*, November, 2012, ArXiv e-prints
- [12] Bressert, E., **Ginsburg**, A., Bally, J., Battersby, C., Longmore, S., & Testi, L., *How to Find Young Massive Cluster Progenitors*, October, 2012, ApJ, 758, L28
- [13] **Ginsburg**, A., Bressert, E., Bally, J., & Battersby, C., *There are No Starless Massive Proto-clusters in the First Quadrant of the Galaxy*, October, 2012, ApJ, 758, L29
- [14] Bally, J., Youngblood, A., & **Ginsburg**, A., *The Spindle: An Irradiated Disk and Bent Protostellar Jet in Orion*, September, 2012, ApJ, 756, 137
- [15] **Ginsburg**, A., Darling, J., Battersby, C., Zeiger, B., & Bally, J., *Galactic H<sub>2</sub>CO Densitometry. I. Pilot Survey of Ultracompact H II Regions and Methodology*, August, 2011, ApJ, 736, 149
- [16] Schlingman, W. M., Shirley, Y. L., Schenk, D. E., Rosolowsky, E., Bally, J., Battersby, C., Dunham, M. K., Ellsworth-Bowers, T. P., Evans, II, N. J., **Ginsburg**, A., & Stringfellow, G., *The Bolocam Galactic Plane Survey: V. HCO<sup>+</sup> and N<sub>2</sub>H<sup>+</sup> Spectroscopy of 1.1 mm Dust Continuum Sources*, August, 2011, ApJS, 195, 14
- [17] **Ginsburg**, A., Bally, J., & Williams, J., *JCMT HARP CO 3-2 Observations of Molecular Outflows in W5*, June, 2011, MNRAS(accepted)
- [18] van Aarle, E., van Winckel, H., Lloyd Evans, T., Ueta, T., Wood, P. R., & **Ginsburg**, A. G., *The optically bright post-AGB population of the LMC*, June, 2011, A&A, 530, A90+
- [19] Aguirre, J. E., **Ginsburg**, A. G., Dunham, M. K., Drosback, M. M., Bally, J., Battersby, C., Bradley, E. T., Cyganowski, C., Dowell, D., Evans, II, N. J., Glenn, J., Harvey, P., Rosolowsky, E., Stringfellow, G. S., Walawender, J., & Williams, J. P., *The Bolocam Galactic Plane Survey: Survey Description and Data Reduction*, January, 2011, ApJS, 192, 4
- [20] Battersby, C., Bally, J., **Ginsburg**, A., Bernard, J. ., Brunt, C., Fuller, G. A., Martin, P., Molinari, S., Mottram, J., Peretto, N., Testi, L., & Thompson, M. A., *Characterizing Precursors to Stellar Clusters with Herschel*, January, 2011, A&A(accepted)
- [21] Bally, J., Aguirre, J., Battersby, C., Bradley, E. T., Cyganowski, C., Dowell, D., Drosback, M., Dunham, M. K., Evans, II, N. J., **Ginsburg**, A., Glenn, J., Harvey, P., Mills, E., Merello, M., Rosolowsky, E., Schlingman, W., Shirley, Y. L., Stringfellow, G. S., Walawender, J., & Williams, J., *The Bolocam Galactic Plane Survey:  $\lambda = 1.1$  and 0.35 mm Dust Continuum Emission in the Galactic Center Region*, September, 2010, ApJ, 721, 137
- [22] Battersby, C., Bally, J., Jackson, J. M., **Ginsburg**, A., Shirley, Y. L., Schlingman, W., & Glenn, J., *An Infrared Through Radio Study of the Properties and Evolution of IRDC Clumps*, September, 2010, ApJ, 721, 222
- [23] Yan, C.-H., Minh, Y. C., Wang, S.-Y., Su, Y.-N., & **Ginsburg**, A., *Star-forming Region Sh 2-233IR. I. Deep Near-infrared Observations toward the Embedded Stellar Clusters*, September, 2010, ApJ, 720, 1

- [24] Bally, J., Anderson, L. D., Battersby, C., Calzoletti, L., Digiorgio, A. M., Faustini, F., **Ginsburg**, A., Li, J. Z., Nguyen-Luong, Q., Molinari, S., Motte, F., Pestalozzi, M., Plume, R., Rodon, J., Schilke, P., Schlingman, W., Schneider-Bontemps, N., Shirley, Y., Stringfellow, G. S., Testi, L., Traficante, A., Veneziani, M., & Zavagno, A., *Herschel observations of the W43 “mini-starburst”*, July, 2010, A&A, 518, L90+
- [25] Dunham, M. K., Rosolowsky, E., Evans, II, N. J., Cyganowski, C. J., Aguirre, J., Bally, J., Battersby, C., Bradley, E. T., Dowell, D., Drosback, M., **Ginsburg**, A., Glenn, J., Harvey, P., Merello, M., Schlingman, W., Shirley, Y. L., Stringfellow, G. S., Walawender, J., & Williams, J. P., *The Bolocam Galactic Plane Survey: III. Characterizing Physical Properties of Massive Star-forming Regions in the Gemini OB1 Molecular Cloud*, July, 2010, ApJ, 717, 1157
- [26] Rosolowsky, E., Dunham, M. K., **Ginsburg**, A., Bradley, E. T., Aguirre, J., Bally, J., Battersby, C., Cyganowski, C., Dowell, D., Drosback, M., Evans, II, N. J., Glenn, J., Harvey, P., Stringfellow, G. S., Walawender, J., & Williams, J. P., *The Bolocam Galactic Plane Survey: II. Catalog of the Image Data*, May, 2010, ApJS, 188, 123
- [27] **Ginsburg**, A. G., Bally, J., Yan, C.-H., & Williams, J. P., *Outflows and Massive Stars in the Protocluster IRAS 05358+3543*, December, 2009, ApJ, 707, 310
- [28] Rubin, D., Hony, S., Madden, S. C., Tielens, A. G. G. M., Meixner, M., Indebetouw, R., Reach, W., **Ginsburg**, A., Kim, S., Mochizuki, K., Babler, B., Block, M., Bracker, S. B., Engelbracht, C. W., For, B.-Q., Gordon, K., Hora, J. L., Leitherer, C., Meade, M., Misselt, K., Sewilo, M., Vijn, U., & Whitney, B., *A spatially resolved study of photoelectric heating and [C II] cooling in the LMC. Comparison with dust emission as seen by SAGE*, February, 2009, A&A, 494, 647
- [29] van de Steene, G. C., Ueta, T., van Hoof, P. A. M., Reyniers, M., & **Ginsburg**, A. G., *Kinematics and H<sub>2</sub> morphology of the multipolar post-AGB star IRAS 16594-4656*, March, 2008, A&A, 480, 775