

CURRICULUM VITAE – AUGUST MUENCH

Address Smithsonian Astrophysical Observatory
60 Garden Street, Mail Stop 42
Cambridge, MA 02138

Office Phone 617 495 7979

Office Fax 617 495 7345

Work Email gmuench@cfa.harvard.edu

Internet <http://www.cfa.harvard.edu/~gmuench>

Legal Name August Muench-Nasrallah

Date of Birth 19 August 1973

Place of Birth Tampa, Florida, United States of America

EDUCATION

2002 Ph.D Astronomy, University of Florida, Gainesville, Florida

1995 B.Sci Physics, Georgia Institute of Technology, Atlanta, Georgia

EMPLOYMENT

2009– Infrared Astronomer, Smithsonian Astrophysical Observatory

2008–2009 Research Associate, Harvard College Observatory
Project Manager (Harvard), WorldWide Telescope Pro

2005–2008 Visiting Scientist, Smithsonian Astrophysical Observatory

2003–2005 Postdoctoral Fellow, Smithsonian Astrophysical Observatory

2002–2003 Postdoctoral Associate, *Spitzer* Science Center

RESEARCH GRANTS

PI: 2007 NASA Astrophysics Data Analysis; Proposal #07-ADP07-0054
CONSTRAINING THE STELLAR INITIAL MASS FUNCTION THROUGH A
BROAD SPECTRUM ARCHIVAL STUDY OF STAR FORMING REGIONS; \$398139

PI: 2007 *Spitzer* Space Telescope Archive Research; Proposal #40008
CONSTRAINTS ON THE STELLAR IMF WITH *Spitzer*; \$106363

Co-PI: 2006 *Spitzer* Space Telescope General Observer; Proposal #30033
PROTOSTARS IN CLUSTERED ENVIRONMENTS; 43 hrs. (PI: C. Lada)

Co-PI: 2005 *Spitzer* Space Telescope General Observer; Proposal #20119
AN IRAC/MIPS SURVEY OF THE PIPE NEBULA; 106 hrs. (PI: C. Lada)

SELECT SCIENTIFIC PUBLICATIONS – AUGUST MUENCH

REVIEW ARTICLES

Muench, A. A., Getman, K., Hillenbrand, L., and Preibisch, T. 2008,
“Star Formation in the Orion Nebula I: Stellar Content,”
Handbook of Star Forming Regions, Volume 1: The Northern Sky,
ASP Monograph Publications, Vol. 4., Edited by Bo Reipurth, p.483

O’Dell, C. R., **Muench, A. A.**, Smith, N., and Zapata, L. 2008,
“Star Formation in the Orion Nebula II: Gas, Dust, Proplyds and Outflows,”
Handbook of Star Forming Regions, Volume 1: The Northern Sky,
ASP Monograph Publications, Vol. 4., Edited by Bo Reipurth, p.544

JOURNAL ARTICLES

Muench, A. A., Lada, E. A., and Lada, C. J. 2000,
“Modeling the Near-Infrared Luminosity Functions of Young Stellar Clusters,”
Astrophysical Journal, Volume 533, pp. 358-371.

Lada, C. J., **Muench, A. A.**, Haisch, K. E., Lada, E. A.,
Alves, J. F., Tollestrup, E. V., and Willner, S. P. 2000,
“Infrared L-Band Observations of the Trapezium Cluster:
A Census of Circumstellar Disks and Candidate Protostars,”
Astronomical Journal, Volume 120, pp. 3162-3176.

Muench, A. A., Alves, J., Lada, C. J., and Lada, E. A. 2001,
“Evidence for Circumstellar Disks around Young Brown Dwarfs in the Trapezium Cluster,”
Astrophysical Journal, Volume 558, pp. L51-L54.

Muench, A. A., Lada, E. A., Lada, C. J., and Alves, J. 2002,
“The Luminosity and Mass Function of the Trapezium Cluster
From B Stars to the Deuterium-burning Limit,”
Astrophysical Journal, Volume 573, pp. 366-393.

Muench, A. A., Lada, E. A., Lada, C. J., Elston, R. J., Alves, J. F., and 5 colleagues 2003,
“A Study of the Luminosity and Mass Functions of the Young IC 348 Cluster”
Astronomical Journal, Volume 125, pp. 2029-2049.

Luhman, K. L., Stauffer, J. R., **Muench, A. A.**, Rieke, G. H.,
Lada, E. A., Bouvier, J., and Lada, C. J. 2003,
“A Census of the Young Cluster IC 348,”
Astrophysical Journal, Volume 593, pp. 1093-1115.

- Lada, C. J., **Muench, A. A.**, Lada, E. A., and Alves, J. F. 2004,
“Deep 3.8 Micron Observations of the Trapezium Cluster,”
Astronomical Journal, Volume 128, pp. 1254-1264.
- Feigelson, E. D., Getman, K., Townsley, L., Garmire, G., Preibisch, T., Grosso, N.,
Montmerle, T., **Muench, A.**, and McCaughrean, M. 2005,
“Global X-Ray Properties of the Orion Nebula Region,”
Astrophysical Journal Supplement Series, Volume 160, pp. 379-389.
- Grosso, N., Feigelson, E. D., Getman, K. V., Townsley, L., Broos, P., Flaccomio, E.,
McCaughrean, M. J., Micela, G., Sciortino, S., Bally, J., Smith, N., **Muench, A. A.**,
Garmire, G. P., and Palla, F. 2005,
“*Chandra* Orion Ultradeep Project Census of X-Ray Stars in the BN-KL and OMC-1S Regions,”
Astrophysical Journal Supplement Series, Volume 160, pp. 530-556.
- Luhman, K. L., Lada, C. J., Hartmann, L., **Muench, A. A.**, Megeath, S. T., Allen, L. E.,
Myers, P. C., Muzerolle, J., Young, E., and Fazio, G. G. 2005,
“The Disk Fractions of Brown Dwarfs in IC 348 and Chamaeleon I,”
Astrophysical Journal, Volume 631, pp. L69-L72.
- Teixeira, P. S., Lada, C. J., Young, E. T., Marengo, M., **Muench, A.**, Muzerolle, J.,
Siegler, N., Rieke, G., Hartmann, L., Megeath, S. T., and Fazio, G. 2005,
“Identifying Primordial Substructure in NGC 2264,”
Astrophysical Journal, Volume 636, pp. L45-L48.
- Lada, C. J., **Muench, A. A.**, Luhman, K. L., Allen, L., Hartmann, L., Megeath, T., Myers, P.,
Fazio, G., Wood, K., Muzerolle, J., Rieke, G., Siegler, N., and Young, E. 2005,
“*Spitzer* Observations of IC348: The Disk Population at 2-3 Million Years,”
Astronomical Journal, Volume 131, pp. 1574-1607.
- Muench, A. A.**, Lada, C. J., Luhman, K. L.; Muzerolle, J., and Young, E. 2007,
“A *Spitzer* Census of the IC 348 Nebula,”
Astronomical Journal, Volume 134, pp. 411-444.
- Roman-Zuniga, C. G., Lada, C. J., **Muench, A.**, and Alves, J. F. 2007,
“The Infrared Extinction Law at Extreme Depth in a Dark Cloud Core,”
Astrophysical Journal, Volume 664, pp. 357-362.
- Muench, A. A.**, Lada, C. J., Rathborne, J. M., Alves, J. F., and Lombardi, M. 2007,
“The Nature of the Dense Core Population in the Pipe Nebula:
Core and Cloud Kinematics from C18O Observations,”
Astrophysical Journal, Volume 671, pp. 1820-1831.

- Lada, C. J., **Muench, A. A.**, Rathborne, J. M., Alves, J. F., and Lombardi, M. 2008,
“The Nature of the Dense Core Population in the Pipe Nebula:
Thermal Cores Under Pressure,”
Astrophysical Journal, Volume 672, pp. 410-422.
- Rathborne, J. M., Lada, C. J., Alves, **Muench, A. A.**, J. F., and Lombardi, M. 2008,
“The Nature of the Dense Core Population in the Pipe Nebula:
A Survey of NH₃, CCS, and HC₅N Molecular Line Emission,”
Astrophysical Journal Supplement Series, Volume 174, pp. 396-425.
- Tappe, A., Lada, C. J., Black, J. H., and **Muench, A. A.** 2008,
“Discovery of Superthermal Hydroxyl (OH) in the HH 211 Outflow,”
Astrophysical Journal, Volume 680, pp. L117-L120.
- Luhman, K. L. and **Muench, A. A.** 2008,
“New Low-Mass Stars and Brown Dwarfs with Disks in the Chamaeleon I Star-Forming Region,”
Astrophysical Journal, Volume 684, pp. 654-662.
- Forbrich, J., Lada, C. J., **Muench, A. A.**, and Teixeira, P. S. 2008,
“New M Dwarf Debris Disk Candidates in NGC 2547,”
Astrophysical Journal, Volume 687, pp. 1107-1116.
- Luhman, K. L., Mamajek, E. E., Allen, P. R., **Muench, A. A.**, and Finkbeiner, D. P. 2009,
“Discovery of a Wide Binary Brown Dwarf Born in Isolation,”
Astrophysical Journal, Volume 691, pp. 1265-1275.
- Rathborne, J. M., Lada, C. J., **Muench, A. A.**, Alves, J. F., Kainulainen, J., and Lombardi, M. 2009,
“Dense cores in the Pipe Nebula: An improved core mass function,”
Astrophysical Journal, in press