

Curriculum Vitae

James E. Aguirre

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Education

University of Colorado, Boulder, Postdoctoral Research Associate, 2003
University of Chicago, PhD Physics, 2003
University of Chicago, MS Physics, 2003
Georgia Institute of Technology, BS Applied Mathematics, 1997, highest honor
Georgia Institute of Technology, BS Physics, 1997, highest honor

Appointments

Postdoctoral Research Associate, University of Colorado, Boulder, Center for Astrophysics and Space Astronomy, 2003 - present
Graduate Research Assistant, University of Chicago, Department of Physics, 1997 - 2003
Undergraduate Tutor, Georgia Institute of Technology, Department of Physics, 1997
National Undergraduate Fellow in Plasma Physics and Fusion Engineering, Princeton Plasma Physics Laboratory, Summer 1996
Undergraduate Teaching Assistant, Georgia Institute of Technology, Department of Mathematics, 1996 - 1997

Scholarships, Fellowships, and Awards

National Science Foundation Graduate Research Fellowship, awarded 1997.
National Undergraduate Fellowship in Plasma Physics and Fusion Engineering, awarded by the Princeton Plasma Physics Laboratory, Summer 1996.
Outstanding Graduating Senior in the Georgia Tech Physics Department, 1997.
President's Scholarship, awarded by the Georgia Institute of Technology, 1993 - 1997.
Governor's Scholarship, awarded by the State of Georgia, 1993 - 1997.
HOPE Scholarship, awarded by the State of Georgia, 1993 - 1997.

List of Publications

Refereed

- Aguirre**, J. E., Bezaire, J. J., Cheng, E. S., Cottingham, D. A., Cordone, S. S., Crawford, T. M., Fixsen, D. J., Knox, L., Meyer, S. S., Norgaard-Nielsen, H. U., Silverberg, R. F., Timbie, P., and Wilson, G. W. (2003). The Spectrum of Integrated Millimeter Flux of the Magellanic Clouds and 30 Doradus from TopHat and DIRBE Data. *Astrophysical Journal*, 596:273–286.
- Laurent, G. T., **Aguirre**, J. E., Glenn, J., Ade, R. A. R., Bock, J. J., Edgington, S. F., Goldin, A., Golwala, S. R., Haig, D., Lange, A. E., Maloney, P. R., Mauskopf, P. D., Nguyen, H., Rossinot, P., Sayers, J., and Stover, P. (2004). The Bolocam Lockman Hole Submillimeter Galaxy Survey: Galaxy Candidates and Number Counts. *Astrophysical Journal*; *submitted*.
- Silverberg, R. F., Cheng, E. S., **Aguirre**, J. E., Bezaire, J. J., Crawford, T. M., Meyer, S. S., Bier, A., Campano, B., Chen, T. C., Cottingham, D. A., Sharp, E. H., Christensen, P. R., Cordone, S., Timbie, P. T., Dame, R. E., Fixsen, D. J., Kristensen, R. J. K., Norgaard-Nielsen, H. U., and Wilson, G. W. (2004). The TopHat Experiment: A Balloon-borne Instrument for Mapping Millimeter and Sub-millimeter Emission. *Astrophysical Journal Supplement*; *provisional acceptance*.

Conference Proceedings

- Bradford, C. M., Ade, P., **Aguirre**, J., Bock, J. J., Dragovan, M., Duband, L., Earle, L., Glenn, J., Matsuhara, H., Naylor, B. J., Nguyen, H., Yun, M., and Zmuidzinas, J. (2004). Z-Spec: a broadband millimeter-wave grating spectrometer — design, construction, and first cryogenic measurements. In *Millimeter and Submillimeter Detectors for Astronomy II*. Edited by Zmuidzinas, Jonas; Holland, Wayne S.; Withington, Stafford. *Proceedings of the SPIE*, Volume 5498, pages 257–267.
- Haig, D. J., Ade, P. A. R., **Aguirre**, J. E., Bock, J. J., Edgington, S. F., Enoch, M. L., Glenn, J., Goldin, A., Golwala, S., Heng, K., Laurent, G., Maloney, P. R., Mauskopf, P. D., Rossinot, P., Sayers, J., Stover, P., and Tucker, C. (2004). Bolocam: status and observations. In *Millimeter and Submillimeter Detectors for Astronomy II*. Edited by Zmuidzinas, Jonas; Holland, Wayne S.; Withington, Stafford. *Proceedings of the SPIE*, Volume 5498, pages 78–94.
- Oh, E., Bier, A., Chen, T., Cheng, E., Cottingham, D., Dicamillo, B., Fixsen, D., Naegli, C., Silverberg, R., Wilson, G., Cordone, S., Gundersen, J., Timbie, P., **Aguirre**, J., Bezaire, J., Crawford, T., Golden, A., Knox, L., Meyer, S., Christensen, P., Hermit, S., Kristensen, R., Ramussen, I., Omoe, K., Polny, J., and Piccirillo, L. (1999). The TopHat-Spinner Experiment for Measuring Anisotropy in the Cosmic Microwave Background Radiation. *Bulletin of the American Astronomical Society*, 31:982.

Silverberg, R. F., **Aguirre**, J., Bezaire, J., Cheng, E. S., Christensen, P. R., Cordone, S., Cottingham, D. A., Crawford, T., Fixsen, D. J., Kenny, P., Knox, L., Kristensen, R. E., Meyer, S., Noergaard-Nielsen, H. U., Timbie, P. T., and Wilson, G. W. (2003). The long duration flight of the TopHat experiment. In *Airborne Telescope Systems II. Edited by Ramsey K. Melugin, Hans-Peter Roeser. Proceedings of the SPIE, Volume 4857*, pages 195–203.

Wilson, G. W., **Aguirre**, J., Bezaire, J., Cheng, E. S., Christensen, P. R., Cordone, S., Cottingham, D. A., Crawford, T., Fixsen, D. J., Knox, L., Kristensen, R., Meyer, S. S., Norgaard-Nelsen, H. U., Silverberg, R. F., and Timbie, P. T. (2002). An update on the TopHat experiment. In *AIP Conference Proceedings 616: Experimental Cosmology at Millimetre Wavelengths*, pages 23–30.

Posters

Aguirre, J. and Bolocam-COSMOS Collaboration (2004). A Bolocam Survey of the Central Region of the COSMOS Field. *American Astronomical Society Meeting*, 204.

Laurent, G. T., **Aguirre**, J., Bock, J., Edgington, S., Enoch, M., Glenn, J., Goldin, A., Golwala, S., Haig, D., Maloney, P., Mauskopf, P., Nguyen, H., Rossinot, P., Sayers, J., and Stover, P. (2004a). Bolocam 1.1-millimeter Galaxy Survey of the Lockman Hole. *American Astronomical Society Meeting*, 204.

Laurent, G. T., **Aguirre**, J. E., Bock, J., Edgington, S., Enoch, M., Glenn, J., Goldin, A., Golwala, S., Haig, D. J., Maloney, P., Mauskopf, P., Nguyen, H., Rossinot, P., Sayers, J., and Stover, P. (2003). Bolocam 1.1-millimeter Galaxy Survey. *American Astronomical Society Meeting*, 203.

Thesis

Aguirre, J. E. (2003). Properties of astrophysical submillimeter emission near the South Celestial Pole from the TopHat telescope. *Ph.D. Thesis*.