MICHAEL S. BRIGGS

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The Center for Space Plasma and Aeronomic Research (CSPAR), Cramer Hall
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PROFESSIONAL PREPARATION

Princeton University, A.B. cum laude in Physics, 1982.
University of California, San Diego, Ph.D. Physics, 1991.

APPOINTMENTS

University of Alabama in Huntsville:
Center for Space Physics and Aeronomic Research (CSPAR):

Assistant Director CSPAR & Principal Research Scientist	2011–present
Principal Research Scientist	2009–2011
Research Scientist	1994–2009
Adjunct Faculty, *Department of Space Science*	2015–present
Adjunct Faculty, *Department of Physics*	2012–2014

SCHOLARSHIPS, FELLOWSHIPS & AWARDS

NASA Exceptional Public Achievement Medal	2020
AAS HEAD Division Bruno Rossi Prize to the Fermi GBM Team	2018
UAH 2015 Researcher of the Year	2015
UAH Leadership Enhancement & Administrative Development (LEAD) Program	2014–2015
UAH Foundation Staff Awards	2003 & 2013
Center for Space Plasma & Aeronomic Research Scientific Achievement Award	2011
NASA Group Achievement Award: Fermi Science Team	2010
NASA Group Achievement Award: GLAST Burst Monitor Project Team	2008
NASA Compton Gamma-Ray Observatory Fellow	1991–1994
NASA Graduate Student Researcher's Program	1987–1990
UCSD Marlar Fellowship	1987–1988
University of California Regents' Fellowship	1982–1983
First place 37th Annual Science Talent Search	1978–1982

INVITED TALKS

Ioffe Workshop on GRBs, St. Petersburg, Russia, 2019
The Transient Universe, Singapore, 2018
Fifth International Fermi Symposium, Japan, 2014.
European Geosciences Union General Assembly, Vienna, 2014.
Multi-Messenger Transient Astrophysics Workshop, KIAA, Peking University, 2013.
Fermi Summer School, 2012 & 2016.
Gamma Ray Bursts in the Era of Rapid Follow-up, Liverpool, UK, 2012.
AGILE 10th Science Workshop, Frascati, Italy, 2012.
Osaka University International Workshop on Lightning, Osaka, Japan, 2011.
Gamma Ray Bursts 2010 Conference, Annapolis, 2010.
Huntsville Workshop 2010 (Nashville): Partially Ionized Plasmas throughout the Cosmos.
American Geophysical Union, San Francisco, 2009 & 2010.
Fermi Symposium, Washington, D.C., 2009.

SELECTED PUBLICATIONS

"Fermi Observations of the LIGO Event GW170104", A. Goldstein, et al., Ap. J. Lett., **846**, (2017), https://iopscience.iop.org/article/10.3847/2041-8213/aa8319

"Terrestrial gamma ray flashes due to particle acceleration in tropical storm systems", O. J. Roberts, G. Fitzpatrick, G. Priftis, K. Bedka, T. Chronis, S. McBreen, M. S. Briggs, E. Cramer, B. Mailyan, M. Stanbro, J. Geo. Res., doi:10.1002/2016JD025799, (2017), https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2016JD025799

"The First Pulse of the Extremely Bright GRB 130427A: A Test Lab for Synchrotron Shocks", R. Preece, J. M. Burgess, A. von Kienlin, P. N. Bhat, M. S. Briggs, D. Byrne, V. Chaplin, et al., Science, **343**: 6166, 51–54, doi:10.1126/science.1242302, (2014), http://www.sciencemag.org/content/343/6166/51

"Time-Resolved Analysis of Fermi Gamma-Ray Bursts with Fast- and Slow-Cooled Synchrotron Photon Models", J. M. Burgess, R. D. Preece, V. Connaughton, M. S. Briggs, A. Goldstein, et al., ApJ, **784**, 17, doi:10.1088/0004-637X/784/1/17, (2014), http://iopscience.iop.org/0004-637X/784/1/17/

"The source altitude, electric current, and intrinsic brightness of terrestrial gamma-ray flashes", S. A. Cummer, M. S. Briggs, J. R. Dwyer, S. Xiong, V. Connaughton, G. J. Fishman, G. Lu, F. Lyu & R. Solanki, Geo. Res. Lett., **41** 8586–8593, doi:0.1002/2014GL062196, (2014), https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2014GL062196

"Terrestrial Gamma-ray Flashes in the Fermi Era: Improved Observations and Analysis Methods", M. S. Briggs, S. Xiong, V. Connaughton, D. Tierney, G. Fitzpatrick, et al., J. Geo. Res., **118**, 6, 3805, doi:10.1002/jgra.50205, (2013), https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/jgra.50205

"Radio signals from electron beams in Terrestrial Gamma-ray Flashes", V. Connaughton, M. S. Briggs, S. Xiong, et al., J. Geo. Res., **118**, 5, 2313, doi:10.1029/2012JA018288, (2013), https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2012JA018288

"Fermi Detection of γ-ray Emission from the M2 Soft X-Ray Flare on 2010 June 12", M. Ackermann, M. Ajello, A. Allafort, W. B. Atwood, et al., ApJ, **745**, 144, doi:10.1088/0004-637X/745/2/144, (2012), http://iopscience.iop.org/0004-637X/745/2/144

"Constraints on the Synchrotron Shock Model for the Fermi GBM Gamma-Ray Burst 090820A", J. M. Burgess, R. D. Preece, M. G. Baring, M. S. Briggs, V. Connaughton, S. Guiriec, et al., Ap. J., **741**, 24, doi:10.1088/0004-637X/741/1/24, (2011), http://iopscience.iop.org/0004-637X/741/1/24/

"Electron-positron beams from terrestrial lightning observed with Fermi GBM", M. S. Briggs, V. Connaughton, C. Wilson–Hodge, et al., Geo. Res. Lett., **38**, L02808, doi:10.1029/2010GL046259, (2011), https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2010GL046259

"First results on terrestrial gamma ray flashes from the Fermi Gamma-ray Burst Monitor", M. S. Briggs, G. J. Fishman, V. Connaughton, P. N. Bhat, W. S. Paciesas, et al., J. Geo. Res., **115**, A07323, doi:10.1029/2009JA015242, (2010), https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2009JA015242