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Education:

- 1975 B.S. with Honors, Physics and Astronomy, California Institute of Technology
- 1977 M.A., Astrophysical Sciences, Princeton University
- 1979 Ph.D., Astrophysical Sciences, Princeton University

Professional history:

- 1991— Astronomer, Harvard-Smithsonian Center for Astrophysics
- 2006— Principal Investigator, Parallel Imager for Southern Cosmology Observations
- 2003— Co-Principal Investigator, The South Pole Telescope
- 1989—2007 Principal Investigator, Antarctic Submillimeter Telescope and Remote Observatory
- 1980—1992 Visiting Lecturer, Department of Astrophysical Sciences, Princeton University
- 1979—1991 Member of Technical Staff, Radio Physics Research Department, Bell Laboratories, Holmdel, NJ
- 1976 Physicist, Lawrence Livermore National Laboratory
- 1975 Summer Student, Lawrence Livermore National Laboratory
- 1974—1975 Programmer, Space Radiation Laboratory, Caltech
- 1973 Observing Assistant, Owens Valley Radio Observatory, Big Pine, CA
- 1972—1973 Research Assistant, Kellogg Radiation Laboratory, Caltech

Proposal-related publications:

Stark, A. A., Bally, J., Balm, S. P., Bania, T. M., Bolatto, A. D., Chamberlin, R. A., Engargiola, G., Huang, M., Ingalls, J. G., Jacobs, K., Jackson, J. M., Kooi, J. W., Lane, A. P., Lo, K.-Y., Marks, R. D., Martin, C. L., Mumma, D., Ojha, R., Schieder, R., Staguhn, J., Stutzki, J., Walker, C. K., Wilson, R. W., Wright, G. A., Zhang, X., Zimmermann, P., and Zimmermann, R. 2001, "The Antarctic Submillimeter Telescope and Remote Observatory (AST/RO)", *PASP*, 113, 567.

Stark, A. A., Chamberlin, R. A., Cheng, J., Ingalls, J. G., and Wright, G. A. 1997, "The Optical and Mechanical Design of the Antarctic Submillimeter Telescope and Remote Observatory", *Rev. Sci. Instr.*, 68, 2200.

Martin, C. L., Walsh, W. M., Xiao, K., Lane, A. P., Walker, C. K., and Stark, A. A. 2004 "The AST/RO Survey of the Galactic Center Region. I. The Inner 3 Degrees", ApJS, 150, 239.

Stark, A. A. & Lee, Y. 2005 "The Scale Height of Giant Molecular Clouds is Less than That of Smaller Clouds", ApJ, 619L, 159.

Bally, J., Stark, A. A., Wilson, R. W., and Henkel, C. 1988, "Galactic Center Molecular Clouds. II. Distribution and Kinematics", ApJ, 324, 223.

Other significant publications:

Stark, A. A., Gammie, C. F., Wilson, R. W., Bally, J., Linke, R. A., Heiles, C., and Hurwitz, M. 1992, "The Bell Laboratories H I Survey", ApJS, 79, 77.

Lee, Y., Stark, A. A., Kim, H. G., and Moon, D. 2001, "The Bell Laboratories "CO Survey: Longitude- Velocity Maps", ApJS, 136, 137.

Miller, R. E., and Stark, A. A. 1986, "SIS Mixer Having Thin Film Wrap-Around Edge Contacts", U. S. Patent 4,610,032.

Binney, J., Gerhard, O. E., Stark, A. A., Bally, J., and Uchida, K. I. 1991, "Understanding the Kinematics of Galactic Centre Gas", MNRAS, 252, 210.

Stark, A. A., Davidson, J. A., Harper, D. A., Pernic, R., Loewenstein, R., Platt, S., Engargiola, G., and Casey, S. 1989, "Far Infrared and Submillimeter Photometric Mapping of Spiral Galaxies in the Virgo Cluster", ApJ, 337, 650.

Examples of Synergistic Activities:

PI of AST/RO Project; Chair of South Pole User's Committee; supervised graduate and undergraduate students in Astronomy and Engineering at Boston University, Northeastern University, and Harvard University; supervised students as part of CARA REU program; contributed to development of antenna- measuring holography instrumentation and software; designed all and constructed some of the sub-systems of the AST/RO telescope; member of telescope design advisory panel of Paul Allen Telescope; developed millimeter and submillimeter-wave cryogenic detector systems.

Graduate Advisor: Arno A. Penzias (New Enterprise Associates)

Student Advisees:

H. Hsieh, senior honors thesis at Harvard University; Northeastern U. students E. Walters, K. Farinaella, D. Atkins, and C. Tran, capstone design project; also played a major role advising Boston U. students A. Bolatto (Berkeley) and J. Ingalls (IPAC), and Princeton U. student G. Heiligman (Lincoln Labs).