

Tiffany Michelle Borders

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EDUCATION

M.S. in Astronomy, San Diego State University, San Diego, CA. Graduated June 2008. Graduate courses in astronomy with research thesis.

B.S. in Physics and Minor in Astronomy, Sonoma State University, Rohnert Park, CA. Graduated August 2004. Graduation with Distinction.

WORK EXPERIENCE

Electronics Assembly Technician, Astronomical Research Cameras, Inc., San Diego, CA, March – June 2008. Assemble power supplies for astronomical CCD cameras.

Teaching Assistant, San Diego State University, 2005 – 2007. Teaching instructor for Astronomy 101 level laboratory course for undergraduates.

Very Large Array Telescope Operator, National Radio Astronomy Observatory, Socorro, NM, Summer 2004 - 2005. Ensure that all observing activities are appropriately carried out and any problems which arise are properly attended to, and any necessary logs are kept up-to-date. Ancillary duties include writing reports, documenting operational procedures, analyzing data, and assisting staff and visitors.

RESEARCH EXPERIENCE

Research Assistant, San Diego State University, San Diego, CA 2006 – 2008. Analyzed Mount Laguna Observatory data searching for transiting extrasolar planets in the open cluster M52 for thesis research. Processed data with IRAF, DAOphot, and an image subtraction code called ISIS.

Research Assistant, San Diego State University, San Diego, CA 2005 – 2006. Reduced images of 47 Tucanae using IRAF from the Wide Field Imager camera on the 2.2-m MPG/ESO telescope in La Silla. Performed PSF photometry using DAOphot.

Research Assistant, National Radio Astronomy Observatory, Socorro, NM, Summer 2003. Assisted in a research project analyzing water maser and ammonia observations of the early B protostar G192.16-3.82. Analyzed VLA and VLBA data with AIPS and AIPS ++. Advisors: Debra Shepherd and Mark Claussen. Results published in *The Astrophysical Journal*.

Data Analyst, Space Telescope Science Institute, Baltimore, MD, Summer 2002. Processed Hubble Space Telescope data for the Hubble Heritage Project. Entailed image processing in IRAF, IDL, and creating three-color images in Adobe Photoshop. Responsible for the 2002 release of Hoag's Object, NGC 4319, NGC 6369, and 2004 release of M64.

PUBLICATIONS

Shepherd, D. S., Borders, T., Claussen, M., Shirley, Y. & Kurtz, S.E. 2004, *The Astrophysical Journal*, Volume 614, Issue 1, pp. 211-220.
The Circumstellar Environment of the Early B Protostar G192.16-3.84 and the Discovery of a Low-Mass, Protostellar Core.