

Douglas N. Friedel

Department of Astronomy
103 Astronomy Building
1002 W. Green Street
Urbana, IL 61801

Office: 217-333-5532
Fax: 217-244-7638
friedel@astro.uiuc.edu
<http://www.astro.uiuc.edu/~friedel>

Education

University of Illinois

PhD., Astronomy

Thesis: *3mm Spectral Line Surveys of the High Mass Star Forming Regions Sagittarius B2(N-LMH) and Orion-KL*

Urbana, IL
1999-2005

Clarkson University

B.S., Physics

B.S., Mathematics

Graduated with Distinction

Potsdam, NY
1995-1999
1995-1999

Professional Experience

CARMA Postdoctoral Research Associate

2006-Present

Department of Astronomy, University of Illinois

Conducted high spatial resolution studies of high and low mass star forming regions with the CARMA array in order to study their chemical distributions to gain insight into the formation mechanisms of the individual molecular species.

Local Friend of the Telescope for CARMA.

CARMA Computing Working Group

2006-Present

Department of Astronomy, University of Illinois

National Center for Supercomputing Applications

Developed the CARMA project database system used to schedule and track all CARMA observations

Developed scripts for the CARMA automated data reduction pipeline

Developed new MIRIAD tasks including converter for MIRIAD to MIR format

1999-2005

BIMA/CARMA Research Assistant

Department of Astronomy, University of Illinois

Conducted spectral line surveys of high mass star forming regions with both an interferometric array and single element telescope in order to obtain full spatial scale information for all detected transitions.

Conducted interferometric observations of comets to study the chemical properties of the early solar nebula.

Developed the Variable Temperature and Outflow Velocity model for analyzing interferometric data from comets.

BIMA Proposal Processor

1999-2004

Department of Astronomy, University of Illinois

BIMA/CARMA Operator

2000-Present

Department of Astronomy, University of Illinois

Traveled to the array for week long observing runs, including scheduling and running of projects, general maintenance, and troubleshooting.

MIRIAD System Manager

2004-Present

Department of Astronomy, University of Illinois

Managed MIRIAD data reduction software package on department systems.

Professional Societies

American Astronomical Society

Division of Planetary Science, American Astronomical Society

Awards

Sigurds Arajas Memorial Award for Experimental Physics

1996