

# CURRICULUM VITAE

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## EDUCATION

- 2008– UNIVERSITY OF TEXAS AT AUSTIN  
Postdoctoral Researcher, Infrared Astronomy  
Advisor: Neal J. Evans II
- 2000–2008 UNIVERSITY OF ROCHESTER  
Ph.D., Astronomy (2009)  
Thesis: *Observations of Feedback Between Protostars and Their Natal Clouds*  
Advisor: Dan M. Watson  
A.M., Astronomy (2002)
- 1996–2000 CORNELL UNIVERSITY  
B.A., Astrophysics (2000)

## TEACHING AND LEADERSHIP

- 2009 – Captain, Astronomy Department Softball Team “Ultra Deep Fielders”
- 2007-2008 – Captain, Physics Department Softball Team “Quantum Fielders”
- 2002 – Two Guest Lectures in AST 142 – “Elementary Astrophysics”
- 2001 – Teaching Assistant AST 142 – “Elementary Astrophysics”
- 2000 – Teaching Assistant, PHY 142 – “Electricity & Magnetism (Honors)”
- 2000-2008 – Principal Oboist, Univ. Texas University Orchestra
- 2000-2008 – Principal Oboist, Univ. Rochester Chamber Orchestra

**MEMBERSHIP:** American Astronomical Society (AAS) (2000-present)  
IRS\_Disks Team Member (2000-present)  
DIGIT Team Member (2008-present)

**RESEARCH INTERESTS:** star and planet formation  
jets and outflows in molecular clouds  
dust processing  
protostellar ices

## OBSERVING EXPERIENCE

- CSO (7 nights/2009): “SHARC-II and Heterodyne Receiver Observations of Prestellar and Protostellar Sources”
- IRTF (1 night/2005): “Ground-based Photometry of IRS\_Disk Sources”

- UK Infrared Telescope (2 nights/2004): “Ground-based Photometry of IRS\_Disks Sources”
- Whipple Observatory (2 nights/2004): “Ground-based Photometry of IRS\_Disks Sources”
- Service observing: University of Rochester- RIT Mees Telescope, 2001

## PUBLICATIONS

### Refereed journals

- “The development of a protoplanetary disk from its natal envelope,” Watson, D. M., et al. 2007, *Nature*, 448, 1026
- “Crystalline Silicates and Dust Processing in the Protoplanetary Disks of the Taurus Young Cluster,” Watson, D. M., et al. 2009, *ApJS*, 180, 84
- “Silica in Protoplanetary Disks,” Sargent, B. A., et al. 2009, *ApJ*, 690, 1193
- “Dust Processing and Grain Growth in Protoplanetary Disks in the Taurus-Auriga Star-Forming Region,” Sargent, B. A., et al. 2008, *ArXiv e-prints*, 0811.3622
- “Spitzer Space Telescope Infrared Spectrograph mapping of the central kpc of Centaurus A,” Quillen, A. C., et al. 2008, *MNRAS*, 384, 1469
- “Spitzer IRS Spectra and Envelope Models of Class I Protostars in Taurus,” Furlan, E., et al. 2008, *ApJS*, 176, 184
- “HD 98800: A 10 Myr Old Transition Disk,” Furlan, E., et al. 2007, *ApJ*, 664, 1176
- “Spitzer Observations of HH 54 and HH 7-11: Mapping the H<sub>2</sub> Ortho-to-Para Ratio in Shocked Molecular Gas,” Neufeld, D. A., et al. 2006, *ApJ*, 649, 816
- “Spitzer IRS Observations of FU Orionis Objects,” **Green, J. D.**, Hartmann, L., Calvet, N., Watson, D. M., Ibrahimov, M., Furlan, E., Sargent, B., & Forrest, W. J. 2006, *ApJ*, 648, 1099
- “A Survey and Analysis of Spitzer Infrared Spectrograph Spectra of T Tauri Stars in Taurus,” Furlan, E., et al. 2006, *ApJS*, 165, 568
- “Spitzer Observations of Hydrogen Deuteride,” Neufeld, D. A., et al. 2006, *ApJL*, 647, L33
- “Dust Processing in Disks around T Tauri Stars,” Sargent, B., et al. 2006, *ApJ*, 645, 395
- “Polycyclic Aromatic Hydrocarbons Orbiting HD 233517, an Evolved Oxygen-rich Red Giant,” Jura, M., et al. 2006, *ApJL*, 637, L45
- “Mid-Infrared Spectra of Polycyclic Aromatic Hydrocarbon Emission in Herbig Ae/Be stars,” Sloan, G. C., et al. 2005, *ApJ*, 632, 956
- “Disks in Transition in the Taurus Population: Spitzer IRS Spectra of GM Aurigae and DM Tauri,” Calvet, N., et al. 2005, *ApJL*, 630, L185
- “The Accretion Disk of the Lithium-depleted Young Binary St 34,” Hartmann, L., et al. 2005, *ApJL*, 628, L147
- “Colors of Classical T Tauri Stars in Taurus Derived from Spitzer Infrared Spectrograph Spectra: Indication of Dust Settling,” Furlan, E., et al. 2005, *ApJL*, 628, L65
- “Spitzer IRS Spectra of Young Stars Near the Hydrogen-burning Mass Limit,” Furlan, E., et al. 2005, *ApJL*, 621, L129

- “The Truncated Disk of CoKu Tau/4,” D’Alessio, P., et al. 2005, ApJ, 621, 461
- “The SMART Data Analysis Package for the Infrared Spectrograph on the Spitzer Space Telescope,” Higdon, S. J. U., et al. 2004, PASP, 116, 975
- “Mid-Infrared Spectra of Dust Debris around Main-Sequence Stars,” Jura, M., et al. 2004, ApJS, 154, 453
- “Mid-infrared Spectroscopy of Disks around Classical T Tauri Stars,” Forrest, W. J., et al. 2004, ApJS, 154, 443
- “The State of Protoplanetary Material 10 Million years after Stellar Formation: Circumstellar Disks in the TW Hydrae Association,” Uchida, K. I., et al. 2004, ApJS, 154, 439
- “Mid-infrared Spectra of Class I Protostars in Taurus,” Watson, D. M., et al. 2004, ApJS, 154, 391

### Non-Refereed/Submitted Articles

- “Pointing with Spitzer-IRS: IRS Pickup Targets,” Watson, D. M., **Green, J. D.**, & Leisenring, J. 2003

### Conference Proceedings

- “The Symbiotic Relationship Between Protostars and Their Natal Clouds,” **Green, J. D.**, et al. October 2008, Spitzer Sheds Light on Circumstellar Disks Conference, Pasadena, CA
- “Where is the Driving Source for HH 168?” **Green, J. D.**, et al. 2008, Bulletin of the American Astronomical Society, 39, 889
- “Infrared Emission from Aliphatic and Aromatic Hydrocarbons in Cool Radiative Environments,” Sloan, G. C., et al. 2006, Bulletin of the American Astronomical Society, 38, 1073
- “Mid-infrared Spectra of PAH Emission in Herbig AeBe Stars,” Keller, L. D., et al. 2006, Bulletin of the American Astronomical Society, 38, 1006
- “Silica in Protoplanetary Disks,” Sargent, B. A., et al. 2006, Bulletin of the American Astronomical Society, 38, 911
- “Spitzer-IRS Spectra of Transitional Disks in the Chamaeleon Cloud,” Kim, K. H., et al. 2006, Bulletin of the American Astronomical Society, 38, 86
- “Dust Processing In Disks Around T Tauri Stars In The Taurus/Auriga Star-forming Region,” Sargent, B. A., et al. 2006, Bulletin of the American Astronomical Society, 38, 85
- “Grain Processing in T Tauri Disks,” Forrest, W. J., et al. 2005, IAU Symposium, 235, 110P
- “Grain Processing in YSO Disks,” Sargent, B., et al. 2004, Bulletin of the American Astronomical Society, 36, 1568
- “Spitzer IRS Spectra of Young Stars Near the Hydrogen Burning Mass Limit,” Furlan, E., et al. 2004, Bulletin of the American Astronomical Society, 36, 1533
- “Mid-infrared spectra of Class I protostars in Taurus,” **Green, J. D.**, et al. 2004, Bulletin of the American Astronomical Society, 36, 723

- “Mid-infrared spectroscopy of disks around classical T Tauri stars,” Forrest, W. J., et al. 2004, *Bulletin of the American Astronomical Society*, 36, 722  
Referee for *Astrophysical Journal*, *Astronomy & Astrophysics*

### Popular Science Articles

- “How to Build a Planet: Learning Nature’s Secret with the Spitzer Space Telescope,” Adam Frank, *Discover Magazine* cover article July 2005

### Papers in preparation

- “Protostellar ice feature evolution in nearby molecular clouds,” **J. D. Green**, D. M. Watson & N. J. Evans
- “Spitzer-IRS Observations of Molecular Hydrogen in GGD 37,” **J. D. Green**, D. M. Watson & D. A. Neufeld
- “Spitzer-IRS Observations of Fine Structure Lines in GGD 37,” **J. D. Green**, D. M. Watson & D. A. Neufeld
- “Spitzer-IRS Observations of Water and Hydrogen Deuteride in GGD 37,” **J. D. Green**, D. M. Watson & D. A. Neufeld

### SCIENTIFIC TALKS

- “Circumstellar Disk Mineralogy in Nearby Molecular Clouds: Spitzer and the Herschel Followup,” Planetary Science Symposium, University of Texas at Austin (October 2, 2009)
- “The Birth of a Massive Protostar,” ISM/Planets and Life Seminar, University of Texas at Austin (September 25, 2009)
- “The Birth of a Massive Protostar,” Astronomy Colloquium, American Museum of Natural History, New York, NY (September 3, 2009)
- “The Symbiotic Relationship Between Protostars and Their Natal Clouds,” ISM/Planets and Life Seminar, University of Texas at Austin (February 13, 2009)
- “Where is the Driving Source for HH 168?” ISM/Planets and Life Seminar, University of Texas at Austin (April 2008)
- “Spitzer Observations of FU Orionis Objects,” ASNY Conference (Troy, NY October 2004)

### REFERENCES

Dan M. Watson

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