

Dr. John P. Wisniewski

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1. Research Interests

- **Circumstellar Disks**
- **Extrasolar Planets**
- **Observational Polarimetry**

2. Education

Ph.D., Physics, University of Toledo Advisor: Karen S. Bjorkman *2005*
M.S., Physics, University of Toledo *2002*
B.S., Astrophysics, University of Wisconsin Thesis Advisor: K.H. Nordsieck *1999*

3. Employment History

<i>8/08-</i>	NSF Astronomy & Astrophysics Postdoctoral Fellow
<i>9/06-7/08</i>	NPP Fellow (aka NRC Fellowship)
<i>9/05-8/06</i>	Post-doc USRA/NASA Goddard Space Flight Center
<i>9/03 - 12/05</i>	NASA GSRP Fellow University of Toledo
<i>1/03 - 6/03</i>	Instructor University of Toledo
<i>9/01 - 8/03</i>	Ritter Observatory Research Assistant University of Toledo
<i>summer 2000, 2001</i>	Graduate Research Assistant University of Toledo
<i>9/99 - 5/01</i>	Teaching Assistant University of Toledo
<i>6/96 - 8/99</i>	Research Assistant Space Astronomy Lab University of Wisconsin

4. Grant and Scholarship History

<i>2008 - 2010</i>	NSF AAPF (PI)	\$225,000
<i>2007 - present</i>	Chandra Cy-9 GO-09200830 (co-I)	
<i>2007 - present</i>	HST Cy-16 GO-11214 (PI)	\$11,613
<i>2007 - present</i>	HST Cy-16 GO-11155 (co-I)	
<i>2007 - present</i>	FUSE Cy-8 GO-0052 (PI)	\$ 26,500
<i>2006 - 2008</i>	NPP Fellowship (PI)	\$121,500
<i>2006 - present</i>	HST Cy-15 AR-10936 (co-I)	\$19,450 subcontract
<i>2006</i>	HST Cy-15 GO-10897 (co-I)	

2006	HST Cy-15 GO-10895 (co-I)	
2006	AAS International Travel Grant (PI)	\$1255
2005	AAS International Travel Grant (PI)	\$936
2003 - 2005	NASA GSRP Fellowship (PI)	\$72,000
2004	GSA Career Development Award (PI)	\$175
2003	Sigma-Xi GIAR (PI)	\$750
2001	Theodore Dunham Jr. Grant (Morrison PI)	\$2160
1998	Wisconsin Space Grant Consortium Scholarship (PI)	\$500
1995 - 1999	Wisconsin Academic Excellence Scholarship (PI)	

5. Observing Time Allocations and Experience

Ground-based Observatories

1996-1999 PBO 1m - 1 night per week
 2001-2005 Ritter 1m - ~1 night per week
 2001B-0326 (co-I) CTIO 1.5m - 10 nights
 2002B-0310 (co-I) CTIO 1.5m - 10 nights
 2002B-0310 (co-I) CTIO 0.9m - 5 nights
 2004A-029 (co-I) NASA IRTF 3m - 3 nights
 2004B-0350 (co-I) CTIO 4.0m - 5 nights
 2004B-0357 (co-I) CTIO 4.0m - 1 night
 2005B-0350 (co-I) CTIO 4.0m - 4 nights
 2005B-042 (co-I) NASA IRTF 3m - 4 nights
 2006B-057 (co-I) NASA IRTF 3m - 4 nights
 2006B-015 (co-I) NASA IRTF 3m - 6 nights
 2006B-0323 (co-I) Gemini South 8.0m - 20 hours
 2006B-0554 (PI) Gemini North 8.0m - 5 hours
 2007A-028 (co-I) NASA IRTF 3m - 5 nights
 2007A-048 (co-I) NASA IRTF 3m - ~10 nights
 2007A-0182 (PI) Gemini North 8.0m - 9.8 hours
 2007A-0023 (PI) UKIRT 3.8m - 16 hours
 2007A-079C-410 (co-I) VLT 8.0m - 10.5 hours
 2007A-079C-420 (co-I) VLT 8.0m - 14.4 hours
 2007B-0023 (PI) UKIRT 3.8m - 16 hours
 2007B-069 (co-I) NASA IRTF 3m - 5 nights
 2007B-008 (co-I) NASA IRTF 3m - 7 nights
 2008A-103 (co-I) Subaru 8m - 6 x 0.5 nights
 2008A-21 (PI) UKIRT 3.8m - 30 hours
 2008AB (co-I) Keck Interferometer Nuller Key Science Program
 2008B-0163 (PI) CTIO 4m - 2 nights
 2008B-083 (co-I) NASA IRTF 3m - 3 nights
 2008B-015 (co-I) NASA IRTF 3m - 4 nights

Space-based Observatories

HST Cycle 17 GO-11790 (PI) 6 orbits

HST Cycle 17 GO-11596 (co-I) - 6 orbits
Chandra Cycle 9 GO-09200830 (co-I) - 10 kiloseconds
HST Cycle16 GO-11214 (PI) - 6 orbits
HST Cycle16 GO-11155 (co-I) - 17 orbits
HST Cycle15 GO-10895 (co-I) - 12 orbits
HST Cycle15 GO-10897 (co-I) - 9 orbits
FUSE Cycle 8 GO-0052 (PI) - 84 kiloseconds

Observational Techniques Used

UV: spectroscopy, spectropolarimetry

Optical: imaging, spectroscopy, imaging polarimetry, spectropolarimetry, coronagraphy

Near-IR: imaging, spectroscopy, coronagraphy, coronagraphic imaging polarimetry

Mid-IR: imaging

Software Experience

IRAF, PYRAF, IDL, REDUCE, FORTRAN, Gnuplot, SuperMongo

6. Professional Talks

1. Space Telescope Science Institute, Disk Seminar, June 2008
2. Colgate University, Colloquium (faculty job search), February 2008
3. Western Washington University, Colloquium (faculty job search), January 2008
4. Carnegie Institution of Washington, DTM Seminar, October 2007
5. Joint Astronomy Centre, Seminar, June 2007
6. Goddard Space Flight Center, SEAL Seminar, May 2007
7. Goddard Space Flight Center, Exoplanet Club Seminar, December 2006
8. University of Sao Paulo, Astronomy Colloquium, September 2006
9. Gemini Observatory + CTIO, Astronomy Colloquium, January 2005

7. Teaching Experience

Instructor, University of Toledo

Spring 2003

175 student, non-science major astronomy 101 class; *nominated* for 2003 Outstanding UT Teacher Award

Teaching Assistant, University of Toledo*9/1999 - 5/2001*

Astronomy lab instructor, calculus and non-calculus based physics discussion section leader and lab instructor

Guest Lecturer, University of Toledo*2004-2005*

I served as a guest lecturer for Dr. A Miroshnichenko (Introductory Astronomy: non-majors), Dr. K Bjorkman (Astrophysics: for majors), and Dr. L Anderson-Huang (Introductory Physics: non calculus-based).

Student Research Mentoring

2001 - Amanda Gault, University of Toledo undergraduate student (co-mentor)

2004 - Adam Kowalski, University of Chicago undergraduate student (co-mentor)

2007 - Brad Rush, University of Toledo graduate student

2007 - Adam Kowalski, University of Washington graduate student

CAPER Teaching Workshop*Winter 2003*

I participated in a 1-day workshop led by the Conceptual Astronomy & Physics Research Team. Through this workshop I learned how to incorporate active learning techniques, such as think-pair-share questions and lecture-tutorials, into my teaching practice.

8. Education and Public Outreach

Project ASTRO

Assisted K-12 teachers with the development and implementation of hands-on learning activities.

Ritter Observatory/Brooks Planetarium Outreach Liaison

Conducted public observing sessions and observatory tours, utilizing 10 inch and 40 inch telescopes.

Toledo Astronomical Association (TAA) Guest Lecturer

Presented numerous 1-hour public lectures to the TAA amateur astronomy group.

TAA Star Parties

I served as a frequent guest lecturer at TAA star parties, and served as a guest astronomer during night-time viewing.

FIRST LL judge

I served as a science panel expert for the Toledo chapter of the FIRST Lego League robotic-oriented science competition.

Science Fair Judge

I have served as a physics/astronomy judge for the NW Ohio regional science fair (3 years), MD Kids for Science (2 yrs).

9. Press Coverage

1. First science results from the Keck Interferometer Nuller (Wisniewski co-author):
http://www.nasa.gov/centers/goddard/news/topstory/2008/keck_phiuchi.html

10. Professional Activities

1. member - AAS
2. Referee - Astrophysical Journal, Astronomical Journal, Astronomy & Astrophysics

11. Refereed Publications

1. **Wisniewski, J.P.**, Clampin, M., Bjorkman, K.S., & Barry, R.K. 2008, "High Spatial Resolution Mid-IR Imaging of V838 Monocerotis: Evidence of New Circumstellar Dust Creation", *ApJL*, 683, 171
2. **Wisniewski, J.P.**, Clampin, M., Grady, C., Ardila, D., Ford, H., Golimowski, D., Illingworth, G., Krist, J. 2008, "The HD 163296 Circumstellar Disk in Scattered Light: Evidence of Time-Variable Self-Shadowing", *ApJ*, 682, 548
3. Barry, R.K., Danchi, W.C., Traub, W.A., Sokoloski, J.L., **Wisniewski, J.P.**, Serabyn, E., Kuchner, M., & 34 co-authors 2008, "High Resolution N-Band Observations of the Nova RS Ophiuchi with the Keck Interferometer Nuller", *ApJ*, 677, 1253
4. Sitko, M.L., Carpenter, W.J., Kimes, R.L., Wilde, J.L., Lynch, D.K., Russell, R.W., Rudy, R.J., Mazuk, S.M., Venturini, C.C., Puetter, R.C., Grady, C.A., Polomski, E.F., **Wisniewski, J.P.**, Brafford, S.M., Hummel, H.B., & Perry, R.B. 2008, "Variability of Disk Emission in Pre-Main Sequence and Related Stars I. HD 31648 and HD 163196 - Isolated Herbig Ae Stars Driving Herbig-Haro Flows", *ApJ*, 678, 1070
5. **Wisniewski, J.P.**, Bjorkman, K.S., Bjorkman, J.E., & Clampin, M. 2007, "Discovery of a New Dusty B[e] Star in the Small Magellanic Cloud", *ApJ*, 670, 1331
6. **Wisniewski, J.P.**, Bjorkman, K.S., Magalhaes, A.M., Bjorkman, J.E., Meade, M.R., & Pereyra, A. 2007, "The Role of Evolutionary Age and Metallicity in the Formation of Classical Be Circumstellar Disks II. Assessing the Evolutionary Nature of Candidate Disk Systems", *ApJ*, 671, 2040
7. **Wisniewski, J.P.**, Bjorkman, K.S., Magalhaes, A.M., & Pereyra, A. 2007, "The Magnetic Field Structure of the LMC 2 Supershell: NGC 2100", *ApJ*, 664, 296
8. **Wisniewski, J.P.**, Kowalski, A.F., Bjorkman, K.S., Bjorkman, J.E., & Carciofi, A.C. 2007, "Toward Mapping the Detailed Density Structure of Classical Be Circumstellar Disks", *ApJL*, 656, 21
9. **Wisniewski, J.P.** & Bjorkman, K.S. 2006, "The Role of Evolutionary Age and Metallicity in the Formation of Classical Be Circumstellar Disks I. New Candidate Be Stars in the LMC, SMC, and Milky Way", *ApJ*, 652, 458
10. **Wisniewski, J.P.**, Babler, B.L., Bjorkman, K.S., Kurchakov, A.V., Meade, M.R., & Miroshnichenko, A.M. 2006, "The Asymmetrical Wind of the Candidate Luminous Blue Variable MWC 314", *PASP*, 118, 820

11. Pogodin, M.A., Miroshnichenko, A.S., Tarasov, A.E., Mitskevish, M.P., Chountonov, G.A., Klochkova, V.G., Yushkin, M.V., Manset, N., Bjorkman, K.S., Morrison, N.D., & **Wisniewski, J.P.** 2004, "A New Phase of Activity of the Herbig Be Star HD 200775 in 2001: Evidence for Binarity", *A&A*, 417, 715
12. **Wisniewski, J.P.**, Bjorkman, K.S., & Magalhaes, A.M. 2003, "Evolution of the Inner Circumstellar Envelope of V838 Monocerotis", *ApJL*, 598, 43
13. Miroshnichenko, A.S., Bjorkman, K.S., Morrison, N.D., **Wisniewski, J.P.**, Manset, N., Levato, H., Grosso, M., Pollmann, E., Buil, C., & Knauth, D.C. 2003, "Spectroscopy of the Growing Circumstellar Disk in the delta Scorpii Be Binary", *A&A*, 408, 305
14. **Wisniewski, J.P.**, Morrison, N.D., Bjorkman, K.S., Miroshnichenko, A.S., Gault, A.C., Hoffman, J.L., Meade, M.R., & Nett, J.M. 2003, "Spectroscopic and Spectropolarimetric Observations of V838 Monocerotis", *ApJ*, 588, 486
15. Miroshnichenko, A.S., Mulliss, C.L., Bjorkman, K.S., Morrison, N.D., Kuratov, K.S., & **Wisniewski, J.P.** 1999, "Six Intermediate-Mass Stars with Far-Infrared Excess: A Search for Evolutionary Connections", *MNRAS*, 302, 612

12. Papers Submitted or In-Prep

1. **Wisniewski, J.P.**, Bjorkman, K.S., Magalhaes, A.M., & Bjorkman, J.E. 2008, "Aligned Circumstellar Disk Systems in the Young LMC Clusters NGC 1948 and NGC 2100", *AJ*, submitted
2. Collins, K., Grady, C., Hamaguchi, K., **Wisniewski, J.P.**, Brittain, S., Sitko, M., Carpenter, W.J., Williams, J.P., Mathews, G.S., Williger, G.M. van Boekel, R., Carmona, A., van den Ancker, M., Meeus, G., Chen, X.P., Petre, R., Woodgate, B., & Henning, Th. 2008, "HD100453: A Link Between Gas-Rich Protoplanetary Disks and Gas-Poor Debris Disks", *ApJ*, submitted
3. Bjorkman, K.S., **Wisniewski, J.P.**, & Meade, M.R. 2008, "Interstellar Polarization Along the Line of Sight to Pi Aquarii", *AJ*, in prep
4. Stefl, S., Rivinius, Th., Bjorkman, K.S., Bjorkman, J.E., Carciofi, A.C., Okazaki, A., Rantakyro, F., Baade, D., Chesneau, O., Hesselbach, E., & **Wisniewski, J.P.** 2008, "The Circumstellar Disk of zeta Tauri I. Observations", *ApJ*, in prep
5. Carciofi, A.C., Stefl, S., Rivinius, Th., Bjorkman, K.S., Bjorkman, J.E., Carciofi, A.C., Okazaki, A., Rantakyro, F., Baade, D., Chesneau, O., Hesselbach, E., & **Wisniewski, J.P.** 2008, "The Circumstellar Disk of zeta Tauri II. Modeling", *ApJ*, in prep
6. Hesselbach, E., Bjorkman, K.S., **Wisniewski, J.P.**, & Bjorkman, J.E. 2008, "Infrared Spectroscopy of Classical Be Stars", *AJ*, in prep

13. Conference Proceedings

1. **Wisniewski, J.P.**, Bjorkman, K.S., Magalhaes, A.M., & Bjorkman, J.E. 2007, in IAU 250, Massive Stars as Cosmic Engines (Cambridge University Press, ed. F. Bresolin, P. Crowther, & J. Puls), submitted
2. Bjorkman, K.S., Hesselbach, E.N., **Wisniewski, J.P.**, Kowalski, A.F., Bjorkman, J.E., & Carciofi, A.C. 2007, in IAU 250, Massive Stars as Cosmic Engines (Cambridge University Press, ed. F. Bresolin, P. Crowther, & J. Puls), submitted
3. **Wisniewski, J.P.** 2007, in ASP Conf. Ser., The Nature of V838 Monocerotis and Its Light Echo, ed. R. Corradi & U. Munari (San Francisco: ASP), 363,
4. **Wisniewski, J.P.**, Bjorkman, K.S., Magalhaes, A.M., & Bjorkman, J.E. 2007, in ASP Conf. Ser., Active OB Stars: Laboratories for Stellar and Circumstellar Physics, ed. S. Stefl, S. Owocki, & A.T. Okazaki (San Francisco: ASP), 361, 527
5. **Wisniewski, J.P.**, Kowalski, A.F., Bjorkman, K.S., & Bjorkman, J.E. 2007, in ASP Conf. Ser., Active OB Stars: Laboratories for Stellar and Circumstellar Physics, ed. S. Stefl, S. Owocki, & A.T. Okazaki (San Francisco: ASP), 361, 524
6. **Wisniewski, J.P.**, Bjorkman, K.S., & Bjorkman, J.E. 2005, in ASP Conf. Ser. 343, Astronomical Polarimetry: Current Status and Future Directions, ed. A. Adamson, C. Aspin, & C.J. Davis (San Francisco: ASP), 288
7. **Wisniewski, J.P.**, Bjorkman, K.S., Magalhaes, A.M., Bjorkman, J.E., Carciofi, A.C. 2005, in ASP Conf. Ser. 337, The Nature and Evolution of Disks Around Hot Stars, ed. R. Ignace & K. Gayley (San Francisco: ASP), 333
8. Bjorkman, K.S., **Wisniewski, J.P.**, Bjorkman, J.E., & Hesselbach, E.N. 2005, in Proceedings of Protostars and Planets V, 1286, 8416
9. Nordsieck, K.H., **Wisniewski, J.P.**, & 9 additional co-authors 2001, in ASP Conf. Ser. 233, P Cygni 2000: 400 Years of Progress, ed. M. de Groot & C. Sterken (San Francisco: ASP), 261

14. Non-refereed Abstracts

1. **Wisniewski, J.P.**, Kowalski, A.F., Clampin, M., Grady, C.A., Sitko, M.L., Bjorkman, K.S., Hines, D.C., & Whitney, B.A. 2007, BAAS, 211, 50.10
2. Sitko, M.L., Russell, R.W., Lynch, D.K., Rudy, R.J., Mazuk, S.M., Venturini, C.C., Carpenter, W.J., Kimes, R.L., Beerman, L.C., Ablordeppey, K.E., Grady, C.A., **Wisniewski, J.P.**, Polomski, E.F., Brafford, S.M., Hammel, H.B., Perry, R.B., & Wilde, J.L. 2007, BAAS, 211, 50.08
3. Barry, R.K., Danchi, W.C., Sokoloski, J.L., Koresko, C., **Wisniewski, J.P.**, Serabyn, E., Traub, W., Kuchner, M., & Greenhouse, M.A. 2007, BAAS, 211, 57.05
4. Sitko, M.L., Carpenter, W.J., Grady, C.A., Russell, R.W., Lynch, D.K., Rudy, R.J., Mazuk, S.M., Venturini, C.C., Kimes, R.L., Beerman, L.C., Ablordeppey, K.E., Puetter, R.C., **Wisniewski, J.P.**, Brafford, S.M., Polomski, E.F., Hammel, H.B., Perry, R.B., & Wilde, J.L. 2007, DPS, 42.01
5. **Wisniewski, J.P.**, Clampin, M., Grady, C., Ardila, D., Ford, H., Golimowski, D., Illingworth, G., Krist, J. 2007, in proceedings of the In the Spirit of Lyot Conference (ed. P. Kalas), 48
6. Grady, C., Schneider, G., Woodgate, B.E., **Wisniewski, J.P.**, Brittain, S., Sitko, M.L., & Collins, K. 2007, in proceedings of the In the Spirit of Lyot Conference (ed. P. Kalas), 34
7. Bjorkman, K.S., **Wisniewski, J.P.**, Bjorkman, J.E., & Clampin, M. 2007, BAAS, 210, 8801
8. Collins, K., Grady, C., **Wisniewski, J.P.**, Hamaguchi, K., van Boekel, R., Brittain, S., Carmona, A., Williger, G., van den Ancker, M., Sitko, M., Carpenter, W., Woodgate, B., Henning, T., & Petri, R. 2007, BAAS, 210, 8714
9. **Wisniewski, J.P.**, Clampin, M., Grady, C., Ardila, D., Ford, H., Golimowski, D., Illingworth, G., Krist, J., & the HST ACS Science Team 2006, BAAS, 127.01
10. Bjorkman, K.S., Hesselbach, E.N., **Wisniewski, J.P.**, & Bjorkman, J.E. 2006, BAAS, 81.05
11. Petro, L.D., Hebb, L., Ford, H., Golimowski, D., Rogers, J., Sackett, P., Lewis, K., Clampin, M., **Wisniewski, J.P.**, Minniti, D., Toledo, I., Espinoza, P., & Ardila, D. 2006, BAAS, 196.06
12. Bjorkman, K.S., **Wisniewski, J.P.**, Bjorkman, J.E., & Hesselbach, E.N. 2005, BAAS, 207, 7421
13. **Wisniewski, J.P.** 2005, BAAS, 207, 3903
14. **Wisniewski, J.P.**, Kowalski, A.F., Bjorkman, K.S., & Bjorkman, J.E. 2005, BAAS, 206, 0803
15. Bjorkman, K.S. & **Wisniewski, J.P.** 2004, BAAS, 204, 4508

16. **Wisniewski, J.P.**, Babler, B.L., Bjorkman, K.S., Meade, M.R., & Miroshnichenko, A.M. 2004, BAAS, 204, 0713
17. Bjorkman, K.S., **Wisniewski, J.P.**, & Magalhaes, A.M. 2002, BAAS, 201, 14407
18. **Wisniewski, J.P.**, Bjorkman, K.S., Magalhaes, A.M., & Bjorkman, J.E. 2002, BAAS, 201, 8104
19. **Wisniewski, J.P.**, Bjorkman, K.S., Bjorkman, J.E., Summers, G., & Meade, M.R. 2002, BAAS, 200, 7413
20. Morrison, N.D., Bjorkman, K.S., Miroshnichenko, A.S., & **Wisniewski, J.P.** 2002, IAU Circ., 7829, 2

15. Professional References

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