

Bryan C. Dunne

CONTACT INFORMATION

University of Illinois, Department of Astronomy
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EDUCATION

Ph.D., Astronomy, University of Illinois at Urbana-Champaign, Urbana, IL, May 2007

- Dissertation Topic: “Stellar Energy Feedback From Superbubbles”
- Advisor: You-Hua Chu

M.S., Astronomy, University of Illinois at Urbana-Champaign, Urbana, IL, August 1999

B.A., Physics/Applied Mathematics, Rice University, Houston, TX, May 1996

EMPLOYMENT

Teaching Assistant Professor & Director of the Observatory August 2019 – present
Assistant Chair & Assistant Professor December 2010 – August 2019
Assistant to the Chair & Lecturer August 2007–December 2010
Visiting Teaching Associate January 2004–August 2007

University of Illinois at Urbana-Champaign, Department of Astronomy, Urbana, IL

- Teaches two (2) courses offered by the Department of Astronomy each semester.
- Advises ~200 undergraduate students in Astronomy major and minor programs.
- Makes advancements in teaching and learning in the discipline that leads to innovative strategies and marked course improvement.
- Coordinates and conducts observing activities for all introductory astronomy courses.
- Serves as main point of contact for the Campus Observatory.
- Coordinates, under direction of the Chair, aspects of the undergraduate academic program.
- Coordinates teaching assistants and hourly graders for astronomy courses.
- Engages in outreach and service activities to further the mission of the Department.

TEACHING EXPERIENCE

Over 20 years of experience teaching introductory Astronomy courses, including online.

- ASTR 100: Introduction to Astronomy (classroom and online)
- ASTR 113: The Sky
- ASTR 121: The Solar System
- ASTR 122: Stars and Galaxies
- ASTR 150: Killer Skies
- ASTR 199: Careers in Astronomy
- ASTR 210: Introduction to Astrophysics
- ASTR 330: Extraterrestrial Life

Co-developed online version of ASTR 100: Introduction to Astronomy

Co-developed a new seminar for first-year astronomy majors, ASTR 199: Careers in Astronomy

Over 20 years experience of conducting night sky observing sessions and operating telescopes.

HONORS AND AWARDS

Chancellor’s Academic Professional Excellence (CAPE) Award, April 2018

Named to the “List of Teachers Ranked as Excellent” at the University of Illinois 19 times: Spring 2023, Spring 2020, Fall 2019, Spring 2019, Fall 2018*, Fall 2017, Fall 2016, Fall 2015, Fall 2014, Spring 2014, Fall 2013, Spring 2013, Spring 2012, Spring 2010, Spring 2008, Spring 2007, Fall 2006, Summer 2006*, Spring 2006* (**ranked in the top 10% of instructors in elective courses*)

Faculty Appreciation Award, Greek Councils of the University of Illinois, October 2010

Honorary Coach, Fighting Illini Football Team (Nominated by student-athletes), November 2007

Astronomy Department Outstanding Teacher Award, May 2007

OUTREACH
ACTIVITIES

Science Olympiad Event Coordinator/Volunteer

- Illinois State Tournament Event Coordinator, “Astronomy/Reach for the Stars”: 2002–present
- Champaign Regional Event Coordinator, “Astronomy/Reach for the Stars”: 2005–present
- Statewide Regional Event Writer, “Astronomy”: 2017–present
- Conducted Coaches’ Clinic for “Astronomy” and “Reach for the Stars”, October 2007
- National Tournament Event Volunteer, “Astronomy”: 2005, 2010

Event Co-Coordinator for 2017 Eclipse Illinois event at Goreville, IL

”Ask an Astronomer” at University of Illinois Astronomical Society Open Houses at Campus Observatory

Astronomy presentations at local schools

PROFESSIONAL
ACTIVITIES AND
SERVICE

Member of LAS Online Advisory Board, 2017–present

Invited Presenter at CITL Online Course Workshops, 2016–2017

Contributing Author for OpenStax Astronomy textbook, 2016

Science Content Consultant for the “A True Book: Space” Series , Editorial Directions, Inc., 2013

SELECTED
PUBLICATIONS

“*Physical Structure and Nature of Supernova Remnants in M101*” Franchetti, N. A., Gruendl, R. A., Chu, Y.-H., **Dunne, B. C.**, Pannuti, T. G., Kuntz, K. D., & Chen, C.-H. R. 2012, AJ, 143, 85

“*Nonthermal X-ray Emission in the N11 Superbubble in the Large Magellanic Cloud*” Maddox, L. A., Williams, R. M., **Dunne, B. C.**, & Chu, Y.-H. 2009, ApJ, 699, 911

“*Protostars, Dust Globules, and a Herbig-Haro Object in the LMC Superbubble N51D*” Chu, Y. H., Gruendl, R. A., Chen, C. H. R., Whitney, B. A., Gordon, K. D., Looney, L. W., Clayton, G. C., Dickel, J. R., **Dunne, B. C.**, Points, S. D., Smith, R. C., & Williams, R. M. 2005, ApJ, 634, L189–L192

“*Energy Crisis in the Superbubble DEM L192 (N51D)*” Cooper, Randall L., Guerrero, Martín A., Chu, You-Hua, Chen, C.-H. Rosie, **Dunne, Bryan C.** 2004, ApJ, 605, 751

“*Diffuse X-Ray Emission from the Quiescent Superbubble M17, the Omega Nebula*” **Dunne, Bryan C.**, Chu, You-Hua, Chen, C.-H. Rosie, Lowry, Justin D., Townsley, Leisa, Gruendl, Robert A., Guerrero, Martín A., Rosado, Margarita 2003, ApJ, 590, 306

“*The Wind of the B[e] Supergiant Henize S22 Viewed through a Reflection Nebula in DEM L106*” Chu, You-Hua, Chen, C.-H. Rosie, Danforth, Charles, **Dunne, Bryan C.**, Gruendl, Robert A., Nazé, Yaël, Oey, M. S., Points, Sean D. 2003, AJ, 125, 2098

“*X-Rays from Superbubbles in the Large Magellanic Cloud VI. A Sample of Thirteen Superbubbles*” **Dunne, B. C.**, Points, S. D., & Chu, Y.-H. 2001, ApJS, 136, 119–135

“*A Search for Jovian Planets around Hot White Dwarfs*” Chu, Y.-H., **Dunne, B. C.**, Gruendl, R. A., & Brandner, W. 2001, ApJL, 546, 61–64

“*Assessing the Nature of SNR Candidates in M101*” **Dunne, B. C.**, Gruendl, R. A., Chu, Y.-H., & Williams, R. M. 2000, 11th Annual October Astrophysics Conference in Maryland ”Young Supernova Remnants”, 437–440

“*A Morphological Diagnostic for Dynamical Evolution of Wolf-Rayet Bubbles*” Gruendl, R.A., Chu, Y.-H., **Dunne, B. C.**, & Points, S. D. 2000, AJ, 120, 2670–2678

“*What Produced the Ultraluminous Supernova Remnant in NGC 6946?*” **Dunne, B. C.**, Gruendl, R. A., & Chu, Y.-H. 2000, AJ, 119, 1172–1179