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My main research interests are in galaxies and in the large scale structure of the universe. My textbook Introduction to Cosmology (1st edition ©2003, 2nd edition ©2017), won the Chambliss Astronomical Writing Award of the American Astronomical Society. Foundations of Astrophysics, written with Brad Peterson, was published in 2009.

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Christy Tremonti, University of Wisconsin, Madison 'Barbara Ryden's Introduction to Cosmology is now published in a second edition, following the well-received first edition of 2002 ... This is a course book for physics students; its approach is quantitative and the basic equations and mathematical descriptions are extensively outlined from first principles in all the areas covered.

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