



Horizons: Exploring the Universe

By Michael A. Seeds, Dana Backman

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With their best-selling astronomy textbook, HORIZONS, authors Mike Seeds and Dana Backman help you understand your place in the universe--not just your location in space but your role in the unfolding history of the physical universe. To achieve this goal, they focus on two central questions: "What Are We?" which highlights your place as a planet dweller in an evolving universe, guiding you to better understand where we came from and how we formed; and "How Do We Know?" which provides insights into how the process of science can teach us more about what we are.

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Editorial Review

About the Author

Mike Seeds was a professor of physics and astronomy at Franklin and Marshall College in Lancaster, Pennsylvania, from 1970 until his retirement in 2001. In 1989 he received F&M College's Lindback Award for Distinguished Teaching. Mike's love for the history of astronomy led him to create upper-level courses on archaeoastronomy and on the Copernican Revolution ("Changing Concepts of the Universe"). His research interests focused on variable stars and automation of astronomical telescopes. Mike is coauthor with Dana Backman of *Horizons: Exploring the Universe*, 12th edition (2012); *Universe: Solar Systems, Stars, and Galaxies*, 7th edition (2012); *Stars and Galaxies*, 8th edition (2013); *The Solar System*, 8th edition (2013); and *ASTRO*, 2nd edition (2013), all published by Cengage. He was senior consultant for creation of the 20-episode telecourse accompanying his book *Horizons: Exploring the Universe*.

Dana Backman taught in the physics and astronomy department at Franklin and Marshall College in Lancaster, Pennsylvania, from 1991 until 2003. He invented and taught a course titled "Life in the Universe" in F&M's interdisciplinary Foundations program. Dana now teaches introductory Solar System astronomy at Santa Clara University and introductory astronomy, astrobiology, and cosmology courses in Stanford University's Continuing Studies Program. His research interests focus on infrared observations of planet formation, models of debris disks around nearby stars, and evolution of the solar system's Kuiper belt. Dana is employed by the SETI Institute in Mountain View, California, as director of education and public outreach for SOFIA (the Stratospheric Observatory for Infrared Astronomy) at NASA's Ames Research Center. Dana is coauthor with Mike Seeds of *Horizons: Exploring the Universe*, 14th edition (2018); *Universe: Solar Systems, Stars, and Galaxies*, 7th edition (2012); *Stars and Galaxies*, 8th edition (2013); *The Solar System*, 8th edition (2013); and *ASTRO*, 2nd edition (2013), all published by Cengage.

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