

Kent Alan Montgomery

Education **1990-1995** **Boston University** **Boston, MA**

- Ph.D., in Astronomy

1988-1990 **San Diego State University** **San Diego, CA**

- M.S., in Astronomy

1981-1987 **Montana State University** **Bozeman, MT**

- B.S., in Mathematics and Physics

Doctoral Thesis: "*Old Stellar Systems: A Study in Stellar and Galactic Evolution*", Professor Kenneth Janes, Advisor

Master's Thesis: "*Surface Photometry of the Peculiar Galaxy NGC 6239*", Professor Ronald Angione, Advisor

Employment **2005-Present** **Texas A&M University-Commerce** **Commerce, TX** **Planetarium Director and Adjunct Faculty**

- Oversaw installation of planetarium dome, projection, lighting and sound equipment
- Installed and began public and school group performances in planetarium in January 2006
- Hired staff
- Created promotional material for planetarium shows including mailings, brochures, newspaper articles, radio spots.
- Taught many Introductory Astronomy class
- Helped lead 3 week summer teacher workshop in astronomy for area elementary and middle school teachers
- Organized and lead a summer space camp
- Co-PI on grant for \$25,000 from the Texas Space Grant Consortium for in-service teachers
- Developed and taught Archaeoastronomy class in spring 2010
- Helped in development of Astronomy minor at the University

1995–2005 **Young Harris College** **Young Harris, GA** **Planetarium Director and Professor**

- Managed planetarium with a 40-foot dome; duties included: budgets, personnel, show scheduling, maintenance and operation.
- Teacher of the Year – 2003
- Wrote successful grant proposal and installed new planetarium projector - 2002
- Wrote successful grant then built observatory located just off campus – 2002

- Taught undergraduate astronomy classes.
- Taught undergraduate physics 1996-1997
- Taught undergraduate mathematics 1999-2002.
- Created and administered college web pages Dec. 1996 - Aug. 1997.
- Wrote grant proposal and helped build computer lab for Math and Science building - 1998

1990-1994 **Boston University** **Boston, MA**

College Instructor

- Taught introductory astronomy courses.
- Taught astronomy laboratory sections.
- Researched old open clusters, globular clusters, and elemental abundances.
- Worked with colleague on revising laboratory exercises.
- Awarded Teaching Fellow of the year award -1991

1988-1990 **San Diego State University** **San Diego, CA**

College Instructor

- Taught introductory astronomy courses.
- Taught astronomy laboratory sections.
- Researched peculiar galaxies and binary stars.
- Received award for best service to the department. - 1990

1987-1988 **Terry High School** **Terry, MT**

High School Teacher

- Taught physics and mathematics courses.
- Coached basketball, and track

**Research
Experience**

Texas A&M University-Commerce

- Built small observatory with a number of small telescopes, 8 to 16 inch range and support facilities including a 12-foot dome. The observatory will be used for teaching of classes and undergraduate research involving CCD imaging and broadband filter photometry.

Young Harris College

- Built small observatory with a 16-inch Schmidt-Cassegrain telescope housed in a 15-foot dome and a number of smaller telescopes, which are used for public observing and undergraduate research projects.
- Computerized 16-inch telescope and integrated CCD imaging in order to facilitate undergraduate research program.

Boston University

- CCD Photometry using 0.9-meter telescope at Cerro Tololo National Observatory, La Serena, Chile.
- CCD Photometry using 0.9-meter telescope at Kitt Peak National Observatory, Tucson Arizona.

- Objective Prism Spectroscopy using Burrell-Schmidt 1-meter telescope at Kitt Peak National Observatory, Tucson Arizona.

San Diego State University

- CCD photometry using 1-meter telescope at Mount Laguna Observatory, San Diego, California.

Publications

1. Montgomery, Kent. A *“Forum article on the use of the Planetarium to disseminate information”*, 2002, Planetarian, **31**, 22.
2. Montgomery, K. A., Janes, K. A. and Phelps, R. L., *“Reddening, and Metallicity of NGC 6791”*, 1994, AJ, **108**, 585.
3. Phelps, R. L., Janes, K. A. and Montgomery, K. A., *“The Development of the Galactic Disk: A Search for the Oldest Open Clusters”*, 1994 AJ, **107**, 1079.
4. Montgomery, K. A., Janes, K. A. and Phelps, R. L., *“Reddening, Metallicity, and Age of NGC 6791”*, 1994, Bull. Am. Aston. Soc., **25**, 1454.
5. Janes, K. A., Phelps, R.L., and Montgomery, K. A., *“The Oldest Open Clusters”*, 1994, Bull. Am. Aston. Soc., **25**, 1455
6. Montgomery K. A., and Janes, K. A., *“Population II Horizontal Branches: A Photometric Study of Globular Clusters”*, 1994, Hot Stars in the Halo, eds. Adelman, S. J., Uggren, A. and Adelman, C.J., Cambridge University Press, Schenectady, 136.
7. Phelps, R. L., Janes, K. A. and Montgomery, K. A., *“Population I Horizontal Branches Stars: Probing the Halo-to-Disk Transition”*, 1994, Hot Stars in the Halo, eds. Adelman, S. J., Uggren, A. and Adelman, C.J., Cambridge University Press, Schenectady, 175.
8. Montgomery, K. A., Marschall, L.A., Janes, K. A., *“CCD Photometry of the Old Open Cluster M67”*, 1993, AJ, **106**, 181.
9. Janes, K. A., Friel, E., Montgomery, K., Phelps, R. L., and Marschall, L., *“Open Clusters as Standard Candles – The Age Metallicity Relation and Metallicity Gradients”*, 1992, in Memorie della Society Astronomica Italiana, **63**, 283.
10. Montgomery, K., Marschall, L., Janes, K., *“CCD Photometry of the Old Open Cluster M67”*, 1990, Bul. Am. Astron. Soc., **22**, 1288.

Professional Organizations

Member of the International Planetarium Society
 Member of the American Astronomical Society
 Member of the Western Association of Planetariums

**Planetarium
Productions**

Planetarium shows produced, written and directed:

Cosmic Concert 33	Cosmic Concert 38
A Tale of Many Suns	Cosmology: What Do We Know?
Cosmic Concert 34	Splendors of the Universe
The Christmas Star	Cosmic Concert 39
Cosmic Concert 35	Mars Rediscovered
Mission Discovery	The Changing Sky
Cosmic Concert 36	Cosmic Concert 40
Cosmic Concert 37	Cosmic Concert 41
Exploring Autumn Skies	

Planetarium shows adapted and presented:

Cosmic Catastrophes	Questions?
Endless Horizons	Rusty Rocket
Hubble Vision	Universe
Galaxies	Earth Whispers
Planet Patrol	Tis The Season
Our Place in Space	Invisible Universe
The Story of the Star	The Light-Hearted Astronomer
Light-years From Andromeda	Explorers
Comets Are Coming	RingWorld

References:

Dr. Kenneth Janes, Boston University (617) 353-2627
Dr. Robert Nichols, Young Harris College (706) 379-3429
Dr. Paul Arnold, Young Harris College (706) 379-3772