

ERIN E. ZEKIS

ezeakis@colorado.edu

Graduate Research Assistant

Center for Astrophysics and Space Astronomy

University of Colorado

389 UCB

Boulder, CO 80309

Tel: (812)243-2014

EDUCATION:

1. **Wenatchee High School**, 2000 - 2004
Wenatchee, WA 98801
GPA 4.0 / 4.0
2. **Rose-Hulman Institute of Technology**, 2004 - 2008
Terre Haute, IN 47803
Major: Physics
Minors: Astronomy, Mathematics, Optical Engineering, Spanish
GPA 3.98 / 4.0
3. **University of Colorado at Boulder**, 2008 - Present
Boulder, CO 80309
Department of Astrophysical and Planetary Sciences
GPA 3.26 / 4.0

SKILLS AND QUALIFICATIONS:

Technology

Windows, Linux, MacOS, MS DOS, Unix, IDL, LATEX, Maple, Mathematica, Microsoft Office, IRAF,
MaxIM DL, CCDSoft, The Sky

Other

Telescope hardware
Spanish

RESEARCH/WORK EXPERIENCE:

Percopo tutor (Fall 2007 – Spring 2008)

Lived in sophomore residence hall, providing round-the-clock academic assistance in undergraduate math, physics, and engineering courses; worked with superiors to strengthen and generate concrete goals for the tutoring program

Rose-Hulman Institute of Technology, Terre Haute, IN 47803

Directed research in astronomy (Winter 2004 – Spring 2008)

Worked in asteroid photometry, resulting in publication of new rotation periods; search for supernovae; and variable star photometry

Mentor: Richard Ditteon

Rose-Hulman Institute of Technology, Terre Haute, IN 47803

Summer research intern (May 26 – July 28, 2006)

Southeastern Association for Research in Astronomy (SARA)

Performed research in variable star photometry; composed a paper describing the quiescent, pre-outburst, and outburst behaviors of dwarf nova SS Cygni

Mentor: Ronald Kaitchuck

Ball State University, Muncie, IN 47306

Fall Research intern (Aug. 20 – Dec. 1, 2006)

Summer Research intern (June 4 – Aug. 10, 2007)

NASA Undergraduate Student Research Program (USRP)

Worked with professionals and students over 25 week period to advance knowledge of the red sequence of the Coma cluster of galaxies, to result in a refereed paper (in preparation)

Mentor: Ann Hornschemeier

Goddard Space Flight Center, Greenbelt, MD 20770

Graduate Research Assistant (June 2, 2008 – Present)

Currently studying high ions detected in high-velocity galactic gas in the ultraviolet using data from Hubble STIS and the FUSE satellite; will receive data from the new Hubble COS instrument, to launch in May 2009, to better determine multiphase and kinematic properties of gas

Mentor: J. Michael Shull

Center for Astrophysics and Space Astronomy, Boulder, CO 80309

ACCOMPLISHMENTS/AWARDS:

Learning Center Employee of the Quarter (Fall 2007)

C. Leroy Mason Award: Outstanding Sophomore Physics Major

National Merit Scholarship

Robert C. Byrd Scholarship

Dean's List at Rose-Hulman Institute of Technology

High School Valedictorian

Advanced Placement Scholar with Distinction

RESEARCH PAPERS:

1. 2004-2005 winter observing campaign at Rose-Hulman Institute of Technology, C. Lecrone, D. Addleman, T. Butler, *E. Hudson*, A. Mulvihill, C. Reichert, I. Ross, H. Starnes, R. Ditteon, *Minor Planet Bulletin*, 32, 46-48 [2005]

2. 2005-2006 fall observing campaign at Rose-Hulman Institute of Technology, C. Lecrone, A. Duncan, *E. Hudson*, J. Johnson, A. Mulvihill, C. Reichert, R. Ditteon, *Minor Planet Bulletin*, 33, 66-67 [2006]
3. Observations of SS Cyg – Quiescence to Outburst, *E. Hudson*, K.White, R. Kaitchuck, B. Padgett, A. Perkins, R. Hamper, JSARA - Journal of the Southeastern Association for Research in Astronomy, 1, 21-23 [2007]
4. The Near-IR Red Sequence of the Coma Cluster, *E. Zekis*, A. Hornschemeier, L. Jenkins, N. Miller, In Preparation

CONFERENCE PRESENTATIONS:

1. Multiwavelength SED modeling of dwarf galaxies in the Coma cluster, Presented at the 17th Annual Argonne Undergraduate Symposium and CSUI Annual Conference, Nov 3-4, Argonne, IL [2006].
2. Galaxy SED Fitting in the Coma Cluster (poster), Presented at the 210th American Astronomical Society Meeting, May 26-June 1, Honolulu, HI [2007].

AFFILIATIONS:

Member, Sigma Pi Sigma, the National Physics Honor Society
Member, SPS, the Society of Physics Students

REFERENCES: *List will be provided upon Request.*