

Heath Rhoades
hrhoades@jpl.nasa.gov

Education:

- MS Information Systems Management, Capella University. (Graduated Jan 2013, 3.6 GPA).
- MS Information Technology/ Internet Security, American Intercontinental University (Graduated 2007, 3.5 GPA).
- BS degree Information Technology/Programming, American Intercontinental University (Graduated 2006, 3.75 GPA).
- Computer Education Institute (Graduated 2001).
- Embry-Riddle Aeronautical University (48 units complete).
- US Navy, job and management related course work.
- Serrano High School (Graduated 1990).

Skills:

- Control systems design, implementation, and maintenance (hardware, software, network infrastructure). Engineering design and support on numerous projects in asteroid, comet and satellite observations, optical spacecraft navigation, cosmology, and atmospheric monitoring.
- Proficiency in implementation and administration of the following systems: Windows 2000/2008 server, 2000 Professional, XP Professional, Linux, Linux terminal server, Unix.
- WAN/LAN design, implementation and administration.
- Programming: Visual Studio.NET / Borland Builder C++, Visual Basic, PHP scripting, web design, ASP.NET.
- MySQL database administration and design, Access, SQL.
- Android development using Java, MIT App Inventor.
- Site mentor for Consortium for Undergraduate Research Experience (CURE): Instruction in operation of optical astronomical data acquisition systems and cryogenic systems to student observers representing Cal State Los Angeles, LA City College, Victor Valley College, Pasadena City College.

Certifications:

- Microsoft Certified Professional (MCP).
- A+ Certified Professional.
- Certified NASA Systems Administrator.

Work experience:

- October 2009 – Present
Astronomy Team Lead Observer/Programmer/ITS Systems Rep/ITS Systems administrator Jet Propulsion Laboratory, Table Mountain Observatory.
- March 2007- October 2009
Santa Barbara Applied Research, Interim Astronomy Team Lead, Observer/Programmer/ITS Systems Rep/ITS Systems administrator Jet Propulsion Laboratory, Table Mountain Observatory.
- 2001-March 2007
Owner / Programmer / Systems Administrator G-Star Enterprises (Jet Propulsion Laboratory, Table Mountain Observatory / Part time support).
- 2004-2007

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- Director of Technology Support Services, Snowline Joint Unified School District.
- 2002 – 2004
Network Repair Specialist-Snowline Joint Unified School District.
- 2001-2002
Power Plants / technology, Predator program-General Atomics Aeronautical Systems.
- 1991-2000
Aviation Machinist Mate 2nd Class USN.

Published Fiction/Non-Fiction Works:

- Novel: [U.G.L.Y.](#) Published by Endeavour Press (Oct 2012), Kent England.
- Children's Book: [Queen Vernita Meets Sir HeathyBean the Astronomer](#).

In addition I have contributed to the following publications as a coauthor;

Note: all publications are sited from the NASA ADS Astronomy Abstract Service. (partial List)

Published Research:

- Howell, Ellen S.; Magri, C.; Nolan, M. C.; Taylor, P. A.; Vervack, R. J., Jr.; Fernandez, Y. R.; Mueller, M.; Benner, L. A. M.; Giorgini, J. D.; Scheeres, D. J.; Hicks, M. D.; Rhoades, H.; Somers, J. M.; Gaftonyuk, N. M.; Krugly, Y. N.; Kouprianov, V. V.; Molotov, I. E.; Benishek, V.; Protitch-Benishek, V.; Galad, A.; Higgins, D.; Kusnirak, P.; Pray, D. (2010). Radar Shape Modeling Of (8567) 1996 HW1 Combined With Thermal Observations. American Astronomical Society, DPS meeting #42, #57.03; Bulletin of the American Astronomical Society, Vol. 42, p.1080
- Somers, James M.; Hicks, M.; Lawrence, K.; Rhoades, H.; Mayes, D.; Barajas, T.; McAuley, A.; Foster, J.; Shitanishi, J.; Truong, T.; Garcia, K. (2010). Optical Characterization Of Planetary Radar Targets, Low- ΔV , And Potentially Hazardous Asteroids: Results From 2009-2010. American Astronomical Society, DPS meeting #42, #13.16; Bulletin of the American Astronomical Society, Vol. 42, p.1055
- Foster, James, Hicks, M.; McAuley, A.; Truong, T.; Rhoades, H.; Mayes, D.; Somers, J.; Garcia, K. (2010). 2009 KD5: A Photometric Signature of a Binary Near-Earth Asteroid. American Astronomical Society, DPS meeting #42, #13.15; Bulletin of the American Astronomical Society, Vol. 42, p.1055
- Hicks, M.; Rhoades, H.; Somers, J.; Foster, J.; Truong, T.; Garcia, K. (2010) 2009 KD5: Photometric Signature of a Binary Near-Earth Asteroid? The Astronomer's Telegram, #2709. <http://www.astronomerstelegam.org/?read=2709>
- Menge, D. Rhoades, H (2010). Queen Vernita Meets Sir HeathyBean the Astronomer. Outskirts Press (July 27, 2010). ISBN-13: 978-143273120
- Hicks, M.; Rhoades, H.; Somers, J.; Grote, M. (2009) Broad-Band Photometry of the Potentially Hazardous Asteroid 2002 LV. The Astronomer's Telegram, #2134. <http://www.astronomerstelegam.org/?Read=2134>
- Hicks, M.; Lawrence, K.; Rhoades, H.; Somers, J.; McAuley, A.; Barajas, T. (2009) 2001 FE90: An elongated and rapidly rotating near-Earth asteroid. The

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Astronomer's Telegram, #2116. <http://www.astronomerstelegam.org/?read=2116>

2009 MPC Publications 2008 MPC Publications. Near Earth Asteroid observations.

2009MPEC....N...10N	2007MPEC....V...93S
2009IAUC.9035....3Y	2007IAUC.8895....1P
2009MPEC....B...41T	2007MPEC....U...04L
2009MPEC....A...54R	2007MPEC....P...07R
2008MPEC....T..116B	2007MPEC....O...49L
2008MPEC....T..115R	2007MPEC....O...48N
2008MPEC....T...32B	2007MPEC....O...47H
2008MPEC....H...12A	2007MPEC....N...18C
2008MPEC....F...47M	2007MPEC....M...35F
2008MPEC....D...56M	2007MPEC....M...33M
2008MPEC....A...08S	2007MPEC....M...32F
2007MPEC....X...57B	2007MPEC....M...31T
2007MPEC....X...55R	2007MPEC....J...45B
2007MPC..61427...8O	2007MPEC....J...30R
2007MPEC....W...21R	2007MPEC....J...16B
2007MPEC....V..112S	2007MPEC....G...20C
2007MPEC....V...94S	2004MPEC....J...48T