

Julie E. Ziffer

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EDUCATION **Truman State University**, B.S., Psychology, 1994

University of Central Florida, Ph.D., Physics, 2006
Advisor: Humberto Campins

RESEARCH EXPERIENCE **University of Southern Maine**, Portland, ME **2007 to present**
Assistant Professor of Physics

University of Central Florida, Orlando, FL **2006 to 2007**
Postdoctoral Researcher

University of Central Florida, Orlando, FL **2002 to 2006**
Graduate Researcher and Student

TEACHING EXPERIENCE **University of Southern Maine**, Portland, ME **2007 to present**
Assistant Professor of Physics

Introduction to Astronomy (Astronomy 100k)
Introductory Physics I (Physics 101k)
Introductory Physics Laboratory (Physics 102)
Classical Physics I, II, and III (Physics 221, 223 and 225)
Quantum Mechanics (Physics 311)
Society Environment and Sustainable Learning (ARS 199)

AWARDS 2009 Faculty Senate Honors: Excellence in Scholarship (Univ. of Southern Maine)
2009 Spitzer, CoI: A Comparative Study of the Themis and Veritas Asteroid Families
2007 Research Corporation: Cottrell College Science Award
2004 NASA Space Grant Consortium Fellowship
2002 - 2004 UCF Trustees Fellowship

PUBLICATIONS Campins, H., de Leon, J., Licandro, J., Kelley, M., Fernandez, Y., Ziffer, J., Nesvorny, D. 2012. *Spectra of asteroid families in support of Gaia*. Accepted: Planetary and Space Science.

Licandro, J., Hargrove, K., Kelley, M., Campins, H., Ziffer, J., Al-Lagoa, V., Fernandez, Y., Rivkin, A., 2012. *5-14 micron Spitzer spectra of Themis family asteroids*. A and A vol. 537 pp. 73

International Outer PLANET Watch Team (Iopw-Pvol) Sanchez-Lavega et al. 2011. *Long-term evolution of the aerosol debris cloud produced by the 2009 impact on Jupiter*. Icarus vol. 214 pp. 462

Meech, K., and 192 Coauthors. 2011 *EPOXI: 103P/Hartley 2 Observations From a Worldwide Campaign* ApJ Letters. Volume 734, Issue 1

Ziffer, J., Campins, H., Licandro, J., Walker, M., Fernandez, Y., Clark, B., Mothe-Diniz, T., Howell, E., Deshpande, R., 2011 *Near-Infrared Spectroscopy of Primitive Asteroids Families.*, Icarus. Volume 213, Issue 2, p. 538-546.

Campins, H., Hargrove, K., Pinilla-Alonso, N., Howell, E.S., Kelley, M.S., Licandro, J., Moth-Diniz, T., Fernandez, Y., and Ziffer, J. , 2010 *Ice And Organics On Asteroid 24 Themis: A Possible Link To The Origin Of Earth's Water.*, Nature. Volume 464, p 1320-1321

Clark B. E., Ziffer, J., Nesvorny, D. , Campins, H., Rivkin, A. S., Hiroi, T., Barucci, M. A., Fulchignoni, M. Binzel, R., Fornasier, S., DeMeo, F., Ockert-Bell, M. E., Licandro, J., and Mothe-Diniz, T. 2010 *Spectroscopy of B-type asteroids: Subgroups and meteorite analogs.*, Journal of Geophysical Research. Volume 115, p. 6005.

Fernandez, Y. R., Jewitt, D., and Ziffer, J. E., July 2009. *Albedos of Small Jovian Trojans.* The Astronomical Journal, Volume 138, Issue 1, pp. 240-250.

Campins, H., Licandro, J., Pinilla-Alonso, N., Ziffer, J., de Len, J., and Moth-Diniz, T. 2007. *Nuclear Spectra of Comet 28P Neujmin 1.* Astronomical Journal, Volume 134, Issue 4, pp. 1626-1633..

Campins, H., Ziffer, J., Licandro, J., Pinilla-Alonso, N., Fernandez, Y., de Leon, J. Mothe-Diniz, T., and Binzel. R. P. *Nuclear Spectra of Comet-Asteroid transition object 162P Siding Spring (2004 TU12)* . Astronomical Journal. Sept. 2006, Vol 132, 1346-1353

Ziffer, J. E., Campins, H., Licandro, J., Pinilla-Alonso, N., Fernandez, Y., and Bus, S. J. 2005 *Near Infrared Spectra of Two Asteroids with Low Tisserand Invariant. Earth, Moon and Planets.* Vol. 97, 203-212.

Ziffer, J. 2006 *Surface Composition of Comet Asteroid Transition Objects.* Dissertation. April 2006.

GRANTS AND
TELESCOPE TIME

Wyoming Infrared Observatory for Investigating the Lightcaves of Jovian Trojan Asteroids. 2012. Status: Awarded

USM Faculty Senate Grant: Artificial Intelligence Applications to Asteroidal Databases. \$3000. 2011. Status Awarded

NSF STEP Project ASPIRE \$1,000,000 to Recruit and Retain Women in the Sciences. 2010 Status: Denied

Wyoming Infrared Observatory for Investigating the Lightcaves of Jovian Trojan Asteroids. 2010. Status: Awarded

Wyoming Infrared Observatory for Ground-based Observations of Spacecraft Target Comet Hartley 2. 2010. Status: Awarded

SPITZER Space Telescope for Infrared Observations of the Themis and Veritas Asteroid Families. 2009. Status: Awarded

Infra-red Telescope Facility, Mauna Kea for Near-infrared observations of the Themis and Veritas Asteroid Families. 2008, 2009. Status: Awarded

Research Corporation Cottrell College Award to study Themis and Veritas Members. 2007 Status: Awarded