

# Elisa V. Quintana | CV

NASA Goddard Space Flight Center, Mail Code 667, Greenbelt, MD, 20771

☎ (415) 730-1724 • ✉ elisa.quintana@nasa.gov

## Research Interests

---

My research is focused on the detection, characterization, and formation of extrasolar planets. I use transit photometry to search for planets, and radial velocity and adaptive optics data to confirm planets. I specialize in creating numerical models to explore the formation and habitability of Earth-like planets in environments that are extreme yet prevalent, such as around M-dwarfs and in binary star systems.

## Employment

---

- **Astrophysicist**  
Goddard Space Flight Center *Jan 2017–Present*
- **NASA Postdoctoral Program Senior Fellow**  
Ames Research Center *Apr 2014–Jan 2017*
- **Research Scientist**  
SETI Institute, Kepler Participating Scientist Program *Oct 2011–Mar 2014*
- **Kepler Mission Scientific Programmer**  
SETI Institute *Dec 2006–Sep 2011*
- **NASA Postdoctoral Program**  
Ames Research Center *Jul 2004–Jul 2006*
- **NASA Graduate Student Research Program Fellow**  
Ames Research Center *Jul 1999–Jul 2004*
- **NASA GEM Fellow**  
Goddard Space Flight Center *May 1998–Aug 1998*
- **NASA Academy Research Associate**  
Goddard Space Flight Center *May 1997–Aug 1997*

## Education

---

- **University of Michigan, Ann Arbor**  
Ph.D. Physics *2004*
- **University of Michigan, Ann Arbor**  
M.S. Physics & M.S. Aerospace Science *2002*
- **University of California, San Diego**  
B.S., Physics with honors *1999*

## Select Awards

---

- **HENAAC 2015 Scientist of the Year**  
Great Minds in Stem *2015*  
To recognize the achievements of America's top engineers and scientists within the Hispanic community
- **The 2014 Lupe Ontiveros Dream Award**  
Los Angeles Theatre Center *2014*  
To recognize women with trailblazing careers who have made contributions to the Latino community

- **NASA Software of the Year Award**  
*Kepler Mission Science Operations Center software system* 2010
- **Michigan Center for Theoretical Physics Fellowship**  
*University of Michigan* 2002–2003
- **NASA GEM Doctoral Science Fellowship**  
*Goddard Space Flight Center* 1997–1998
- **California Space Grant Consortium Scholarship**  
*University of California, San Diego* 1995–1997

## Select Publications

---

- **Quintana, E. V., Barclay, T., Borucki, W. J., et al.**  
*The Frequency of Giant Impacts on Earth-like Worlds* 2016  
ApJ 821, 126
- **Barclay, T., Quintana, E. V., Adams, F. C., et al.**  
*The Five Planets in the Kepler-296 Binary System All Orbit the Primary* 2015  
ApJ 209, 7
- **Quintana, E. V., Barclay, T., Raymond, S. N., et al.**  
*An Earth-Sized Planet in the Habitable Zone of a Cool Star* 2014  
Science 344, 277
- **Quintana, E. V. and Lissauer, J. J.**  
*The Effect of Planets Beyond the Ice Line on the Accretion of Volatiles by Habitable-zone Rocky Planets* 2014  
ApJ 786, 33
- **Quintana, E. V., Rowe, J. F., Barclay, T., et al.**  
*Confirmation of Hot Jupiter Kepler-41b via Phase Curve Analysis* 2013  
ApJ 767, 137
- **Quintana, E. V., Jenkins, J. M. and Clarke, B. D., et al.**  
*Pixel-level Calibration in the Kepler Science Operations Center Pipeline* 2010  
SPIE 7740, 77401X
- **Quintana, E. V. and Lissauer, J. J.**  
*Terrestrial Planet Formation in Binary Star Systems* 2010  
Chapter in Planets in Binary Star Systems, ed. Haghighipour (New York: Springer), 265
- **Quintana, E. V., Adams, F. C., Lissauer, J. J., and Chambers, J. E.**  
*Terrestrial Planet Formation around Individual Stars within Binary Star Systems* 2007  
ApJ 660, 807
- **Quintana, E. V. and Lissauer, J. J.**  
*Terrestrial Planet Formation Surrounding Close Binary Stars* 2006  
Icarus 185, 1
- **David, E.-M., Quintana, E. V., Fatuzzo, M., and Adams, F. C.**  
*Stability of Earth-like Planetary Orbits in Binary Systems* 2003  
PASP 115, 809
- **Quintana, E. V., Lissauer, J. J. and Chambers, J. E.**  
*Terrestrial Planet Formation in the Alpha Centauri System* 2002  
ApJ 576, 982
- **Chambers, J. E., Quintana, E. V., Duncan, M. J. and Lissauer, J. J.**  
*Symplectic Integrator Algorithms for Modeling Planetary Accretion in Binary Star Systems* 2002  
ApJ 123, 2884

## Public Outreach

---

- **Society for Advancement of Chicanos and Native Americans in Science Conference**  
*Invited Panelist and Talk on A Sweep of the Universe* Oct 2016
- **Star Trek: Mission New York**  
*Panelist for Trek Talks on the TESS Mission; Staffed NASA booth* Sept 2016
- **AltSpaceVR Virtual Reality Storytelling Series**  
*Invited Talk in VR on Strange New Worlds* June 2016
- **Kennedy Space Center**  
*Invited Talk for Hispanic Outreach and Leadership Alliance* Feb 2016
- **Conference for Undergraduate Women in Physics**  
*Invited Panelist for Women in STEM Topics* Jan 2016
- **Oracle Open World**  
*Invited Talk for VIP Breakout Session on Cloud Computing* Oct 2015
- **San Francisco Amateur Astronomers Club**  
*Invited Talk: Searching for Alien Worlds* Sept 2015
- **Instituto de Astronomia, UNAM at Ensenada, Mexico**  
*Lecturer at 3rd Mexican School on Astrobiology* Sept 2015
- **Charlottesville Astronomical Society**  
*Invited Talk: Searching for Planets with Kepler* Mar 2015
- **Hispanas Organized for Political Equality Conference**  
*Keynote Speaker for Latina History Day* Jan 2015
- **University of Naples, Italy**  
*Invited Talk: Searching for Other Earth-like Worlds* Dec 2014
- **Oracle Open World Conference**  
*Invited Talk for VIP Breakout Session on Big Data Science* Oct 2014

## Professional Service

---

- **Journal Article Reviewer**  
*Refereed many articles in various astronomy/planetary science journals* 2004-present
- **NASA Scientific Proposals Reviewer**  
*Served on panel for a NASA proposal review* Jun 2015

## Select Media Coverage

---

- **NASA Press Release**  
*Kepler-186f (Quintana et al. 2014) named #1 in "Top 20 Intriguing Exoplanets" List* Oct 2015
- **Telemundo 48**  
*Television interview on my career* Oct 2015
- **NPR Science Friday**  
*Public Radio: Spotting Earth's Cousin in the Cosmos* Apr 2014
- **NPR All Things Considered**  
*Public Radio: Scientists Spot A Planet That Looks Like 'Earth's Cousin'* Apr 2014
- **New York Times article on my work**  
*Scientists Find an 'Earth Twin,' or Perhaps a Cousin* Apr 2014
- **Los Angeles Times article on my work**  
*Earth-Sized Planet Found Orbiting in a Habitable Zone* Apr 2014