

Nader Haghighipour

Institute for Astronomy, University of Hawai'i-Manoa, 2680 Woodlawn Drive, Honolulu, HI 96822, USA, Phone: 808-956-6098, Fax: 808-956-4532, nader@ifa.hawaii.edu

<http://www.ifa.hawaii.edu/~nader>

Education

University of Missouri-Columbia Physics (Planetary Dynamics) PhD (1999)

Scientific Employment

2016 – Present : Full Astronomer (*Institute for Astronomy, University of Hawaii*)
2010 – 2016 : Associate Astronomer (*Institute for Astronomy, University of Hawaii*)
2004 – 2010 : Assistant Astronomer (*Institute for Astronomy, University of Hawaii*)
2001 – 2004 : NASA Origin/NASA Astrobiology Fellow (*DTM, Carnegie Institute*)
2000 – 2001 : Postdoctoral Fellow (*Dearborn Observatory, Northwestern University*)
1999 – 2000 : Visiting Assistant Professor (*Dept. Physics & Astronomy, UC-Irvine*)

Awards

2018 : Yuval Ne'eman Distinguish Lectures in Geophysics, Atmospheric Physics, and Space Science (Tel Aviv University)
2017 : Asteroid 10688-Haghighipour
2013 : Humboldt Senior Researcher Fellowship Award

Committees

2015-2018 President of IAU Division F (Planetary Sciences and Astrobiology)
2015-Present Founder and Organizer of the *TESS* Circumbinary Planets Working Group
2012-2018 Member of the Steering Committee of the *Kepler* Circumbinary Working Group
2012-2016 Member of the Steering Committee of the *Kepler* Habitable Zone Working Group
2012-2015 Vice President of IAU Division F (Planetary Systems and Bioastronomy)
2012-2015 Member of Organizing Committee of IAU Commission 51 (Bioastronomy)
2012-2015 Member of Organizing Committee of IAU Commission 7 (Celestial Mechanics)
2010-2012 Committee Member of the AAS Division on Dynamical Astronomy

Research experience and Interest

Solar System Dynamics and Formation (Theory)

- Dust dynamics and planetesimal formation
- Giant and terrestrial planet formation, and origin of Earth's water
- Dynamics of asteroids, NEOs, Parent bodies of differentiated meteorites, Trojans
- Origin and dynamics of Main Belt Comets
- Dynamics and origin of irregular satellites

Extrasolar Planets (Theory)

- Formation, dynamical evolution, planet migration
- Planets in and around binary stars system (formation, dynamics, habitability)
- Habitability and habitable zone

Extrasolar Planets (Observation)

- Detection of super-Earths and habitable planets around low-mass stars
- Detection of circumbinary planets (Kepler, K2, TESS)

Grant Proposals

Funded Research Grants

Agency : NASA XRP (Melissa Morris, 202-774-8476, melissa.a.morris@nasa.gov)
Title : Dynamical Evolution of Circumbinary Disks and Embedded Planets
Amount : \$404,849.00 (PI: **Haghighipour**, Collaborators: Kley, Masset)
Period : 01/01/2018-12/31/2020
FTE : 4/12

Agency : NASA PAST (Kelly Fast, 202-358-0768, Kelly.E.Fast@nasa.gov)
Title : A Search for New Main Belt Comets with Recurrent Activity
Amount : \$221,000.00 (PI: **Haghighipour**, Scientific PI: Hsieh, Coll: Magnier, Denneau)
Period : 10/01/2013-09/30/2015
FTE : 1.5/12

Agency : European Corporation in Science and Technology (COST)
Title : Origins and evolution of life on Earth and in the Universe
Amount : \$150,000.00 (PI: Muriel Gargaud, CoI: **Haghighipour**, et al.)
Period : 10/01/2013-09/30/2018

Agency : NASA/ADAP (Douglas M. Hudgins, 202-358-0988, douglas.m.hudgins@nasa.gov)
Title : Searching for Circumprimary and Circumbinary in Kepler Data
Amount : \$336,476.00 (PI: **Haghighipour**, CoI: Ford, Agol, Collaborators: Welsh, Carter)
Period : 01/01/2013-12/31/2015
FTE : 1.5/12

Agency : NASA/Origins (Henry Throop, 202-358-1364, henry.throop@nasa.gov)
Title : Contribution of Planetesimals to the Compositions of Giant Planets
Amount : \$110,000.00 (PI: **Haghighipour**, CoIs: Podolak, Helled)
Period : 10/01/2012-09/30/2014
FTE : 2.5/12

Agency : Hubble Space Telescope (Cycle 19)
Title : Constraining Planet Formation in the Unique Evolved Binary HR 637 (GJ 86)
Amount : \$43,402.00 (PI: **Haghighipour**, CoIs: Bond, Barstow, Burleigh, Farihi, Holberg)
Period : 01/01/2012-12/31/2013
FTE : 1/12

Agency : NASA/Origins (Henry Throop, 202-358-1364, henry.throop@nasa.gov)
Title : Discovery and Characterization of Kepler Circumbinary Planets
Amount : \$307,877.00 (PI: Welsh, CoI: Orosz, Collaborator: **Haghighipour**, Fabrycky)
Period : 01/01/2013-12/31/2015
FTE : 0/12

Agency : NASA/Cosmochemistry
Title : Origin, Thermal History, and Impact Records of Meteorites and Their Parent Asteroids
Amount : \$703,370.00 (PI: Scott, CoIs: **Haghighipour**, Bottke, Taylor)
Period : 04/15/2012-04/15/2015
FTE : 0/12

Agency : NASA/EXOB
Title : From Planetesimals to Terrestrial Planets: Formation of Habitable Planets in Binary Star Systems
Amount : \$219,835.00 (PI: **Haghighipour**, Co-I: Chambers, Kortenkamp)
Period : 06/22/2009-06/21/2013
FTE : 3/12

Agency : NASA Astrobiology Cooperative Agreement Notice
Title : Origin of Earth's Oceans
Amount : \$7,285,429.00 (PI: Karen Meech, Co-I: **Haghighipour**, et al.)
Period : 10/01/2008-09/30/2013
FTE : 1/12

Agency : NASA/Cosmochemistry Program
Title : Origin, Thermal History, and Impact Record of Meteorites and Their Parent Asteroids
Amount : \$819,950.00 (PI: Ed Scott, Co-I: **Haghighipour**, Taylor)
Period : 01/01/2009-12/31/2013
FTE : 2/12

Agency : Spitzer Space Telescope
Title : Binary Debris Disks: Follow-on Observations of Spitzer Discoveries (PI: Stansberry, CoIs: **Haghighipour**, Kortenkamp, Trilling, Jensen, Mathieu)
Amount : \$50,000
Period : 06/01/2008-05/31/2009

Agency : National Science Foundation
Title : Acquisition of Equipment for an Interdisciplinary Research Center at the Planetary Science Institute
Amount : \$183,772.00 (PI: Steve Kortenkamp, Co-I: **Haghighipour** et al.)
Period : 01/01/2005-12/31/2007

Agency : NASA/Origins of Solar System
Title : Mixing and Transport in the Solar Nebula
Amount : \$180,000.00 (PI: Alan Boss, CoI: **Haghighipour**)
Period : 09/01/2001-03/15/2004
FTE : 12/12

Funded Grants for Instrumentation or Conferences

Agency : NASA/TWSC (Mary Voytek, 202-358-0879, sara@nasa.gov)
Title : Astrobiology and Habitability in Extreme Planetary Systems
Amount : \$19,500.00 (PI: **Haghighipour**, CoIs: Rasio, Marcy, Sigurdsson)
Period : 11/29/2015-12/04/2015

Agency : NASA Astrobiology Institute
Title : IAU Symposium 293: Formation, Detection, and Characterization of Extrasolar Habitable Planets
Amount : \$20,000.00 (PI: **Haghighipour**)
Period : 08/01/2012-08/30/2012

Agency : NASA Astrobiology Institute
Title : Habitability of Extreme Planetary Systems
Amount : \$10,000.00 (PI: **Haghighipour**)
Period : 09/01/2011-09/30/2011

Agency : NASA Astrobiology Institute
Title : Habitability of Super-Earths
Amount : \$20,000.00 (PI: **Haghighipour**)
Period : 06/01/2009-06/30/2009

Agency : NASA Astrobiology Institute/Director's Discretionary Funds
Title : Acquisition of Computational Equipment for Interdisciplinary Research on the Origin of Main Belt Comets and the Formation of Habitable Planets
Amount : \$10,000.00 (PI: **Haghighipour**, Co-PI: Meech, Jewitt, Scott, Boss, Agol, Sigurdsson)
Period : 07/01/2008-10/31/2009

Agency : NASA Astrobiology Institute/Director's Discretionary Funds
Title : Workshop on the Habitability of Super-Earth Planets
Amount : \$17,000.00 (PI: Steinn Sigurdsson, Co-I: **Haghighipour**)
Period : 07/01/2008-10/31/2008

Agency : West Chester University
Title : The Dynamical Evolution of Planetary Systems
Amount : \$1852.00 (PI: Jeffrey Sudol, CoI: **Haghighipour**)

Agency : NASA Astrobiology Institute
Title : Hot-Earths: Formation, Detection, and Structure
Amount : \$4,000 (PI: **Haghighipour**, CoI: Gaidos)
Period : 05/01/2007 – 05/31/2007 (Organizing a special session on Hot Earths at the Summer 2007 Meeting of AAS in Honolulu)

Agency : NASA Astrobiology Institute
Title : Origin of Water on Terrestrial Planets
Amount : \$20,000 (PI: Meech, Co-I: **Haghighipour**, Mottl)
Period : 07/01/2007 – 06/30/2008

Agency : Fund for Astrophysics Research (FAR), Inc.
Theodore Dunham, Jr. Grants for Research in Astrophysics
Title : Computational Studies of the Dynamics of the Solar System and
The Formation of Extrasolar Habitable Planets
Amount : \$3,000 (PI: **Haghighipour**)
Period : 01/01/2007-12/31/2007

Agency : NASA Astrobiology Institute
Title : Formation and Detection of Habitable Planets
Amount : \$4,000 (PI: **Haghighipour**)

Agency : NASA Astrobiology Institute
Title : Planets in Binary Star Systems
Amount : \$4,071 (PI: **Haghighipour**)

Publications

Books

Encyclopedia of Astrobiology: Volume on Extrasolar Planets
N. Haghhighipour, 2015, Springer, ISBN: 978-3-662-44186-2

Planetary Exploration and Science: Recent Results and Advances,
S. Jin, **N. Haghhighipour**, W-H. Ip, 2015, Springer, ISBN: 978-3-662-45051-2 (Printed Version),
ISBN: 978-3-662-45052-9 (Online Version)

Formation, Detection, and Characterization of Habitable Extrasolar Planets
Haghhighipour, N., 2014, Cambridge Univ. Press, ISSN: 1743-9213, ISBN: 978-11-070-3382-5

Planets in Binary Star Systems
Haghhighipour, N., 2010, Springer, ISBN: 978-90-481-8686-0

Book Chapters

Thebault, P., and **Haghhighipour, N.**, 2015, *Planet Formation in Binaries*, in *Planetary Exploration and Science: Recent Advances and Applications*, eds. S. Jin, **N. Haghhighipour**, W-H. Ip, Springer, Netherlands, pp 309-340.

Haghhighipour, N., Dvorak, R., and Pilat-Lohinger, E., 2010, *Habitable Planets in Binary Star Systems*, in: *Planets in Binary Star Systems*, ed. **N. Haghhighipour**, Springer, Netherlands, pp 285-327.

Guillermo, T., **Haghhighipour, N.** et al., 2008, *Radial Velocity*, In: *Exoplanet Community Report*, eds. P.R. Lawson, W.A. Traub, and S.C. Unwin, pp 177-192.

Haghhighipour, N., 2008, *Formation, Dynamical Evolution, and Habitability of Planets In Binary Star Systems*, In: *Exoplanets: Detection, Formation, Properties, Habitability*, ed. J. W. Mason, Parix Publishing Ltd., Chichester, UK, pp 223-257.

Popular Articles

Haghhighipour, N., 2016, *An Astronomical Thaw: A New Rise of Iranian Astronomy*, AAS Digest, March 8, 2016

Haghhighipour, N., 2016, *Mars*, Iranian Students New Agency

Haghhighipour, N., 2014, *Planet Formation in and Around Binary Stars*, The star Formation Newsletter, **260**, 12

Haghhighipour, N., 2012, *The First Double-Double*, Na Kilo Hoku (The Newsletter of the Institute for Astronomy), **44**, 1

Haghhighipour, N., 2012, *Formation, Detection, and Characterization of Habitable Extrasolar Planets*, *Inquiries of Heaven*, Beijing, China, August 27, 2012

Haghighipour, N., 2010, *Planet Detected in Habitable Zone of Nearby Star*, Na Kilo Hoku (The Newsletter of the Institute for Astronomy), **35**, 2

Haghighipour, N., Jewitt, D., 2008, *The Origin of Main Belt Comets*, Na Kilo Hoku (The Newsletter of the Institute for Astronomy), **28**, 2

Haghighipour, N., 2008, *Binary Stars with habitable Planets*, American Scientist, **96**, 294

Haghighipour, N., 2005, *150 New Planets Create 150 Brand-New Challenges*, Hawaii Tribune Herald, Page D4

Refereed Articles

Holler, B. J., Milam, S. N., Bauer, J. M., including **Haghighipour, N.**, 2018, *Solar system science with the Wide-Field InfraRed Survey Telescope (WFIRST)*, submitted

Quarles, B., Satyal, S., Kostov, V., Kaib, N., and **Haghighipour, N.**, 2018, *Stability Limits of Circumbinary Planets: Is there a Pile-up in Kepler CBPs?*, Astrophysical Journal, **856**, Article id.150

Haghighipour, N., Maindl, T. I., Schaefer, C. M., and Wandel, O. J. 2018, *Triggering the Activation of Main Belt Comets: The Effect of Porosity*, Astrophysical Journal, **855**, Article id.60

Haghighipour, N., Maindl, T. I., Schaefer, C., Speith, R., and Dvorak R., 2016, *Activation of Main Belt Comets*, Astrophysical Journal, **830**, Article id. 22

Kane, S. R., Hill, M. L., Kasting, J. F., Kopparapu, R. K., Quintana, E. V., Barclay, T., Batalha, N. M., Borucki, W. J., Ciardi, D. R., **Haghighipour, N.**, Hinkel, N. R., Kaltenegger, L., Selsis, F., Torres, G., 2016, *A Catalog of Kepler Habitable Zone Exoplanet Candidates*, Astrophysical Journal, **830**, Article id. 1

Hsieh, H. H., and **Haghighipour, N.**, 2016, *Potential Jupiter Family Comet Contamination of the Main Asteroid Belt*, Icarus, **277**, 19

Kostov, V. B., Orosz, J. A., Welsh, W. F., Doyle, L. R., Fabrycky, D. C., **Haghighipour, N.**, et al., 2016, *KOI-2939b: The Largest and Longest-Period Kepler Transiting Circumbinary Planet*, Astrophysical Journal, **827**, Article id. 86

Haghighipour, N. and Winter, O. C., 2016, *Formation of Terrestrial Planets in Disk with Different Surface Density Profiles*, Celestial Mechanics and Dynamical Astronomy, **124**, 235

Kley W., and **Haghighipour, N.**, 2015, *Evolution of circumbinary Planets Around Eccentric Binaries: The case of Kepler-34*, Astronomy and Astrophysics, **581**, Article id. A20

- Welsh, W. F., Orosz, J. A., Short, D. R., **Haghighipour, N.**, et al., 2015, *Kepler 453 b – The 10th Kepler Transiting Circumbinary Planet*, *Astrophysical Journal*, **809**, Article id. 26
- Maindl, T. I., **Haghighipour, N.**, Schaefer, C., Speith, R., and Dvorak, R., 2015, *Triggering the Activity of Main Belt Comets*, *LPI Contribution*, **1832**, 1032
- Hsieh, H. H., Hainaut, O., Novaković, B., Bolin, B., Denneau, L., Fitzsimmons, A., **Haghighipour, N.**, et al., 2015, *Sublimation-Driven Activity in Main-Belt Comet 313p/Gibbs*, *The Astrophysical Journal Letters*, **800**, article id. L16
- Hinse, T. C., **Haghighipour, N.**, Kostov, V. B., and Gozdziewski, K., 2015, *Predicting a third planet in the Kepler-47 circumbinary system*, *Astrophysical Journal*, **799**, Article id. 88
- Schunová, E., Jedicke, R., Walsh, K. J., Granvik, M., Wainscoat, R. J., and **Haghighipour, N.**, 2014, *Properties and evolution of NEO families created by tidal disruption at Earth*, *Icarus*, **238**, 156
- Oshagh, M., Santos, N. C., Ehrenreich, D., **Haghighipour, N.**, Figueira, P., Santerne, A., and Montalto, M., 2014, *Impact of occultations of stellar active regions on transmission spectra. Can occultation of a plage mimic the signature of a blue sky?*, *Astronomy and Astrophysics*, **568**, article id. A99
- Kley, W., and **Haghighipour, N.**, 2014, *Modeling Circumbinary Planets: The Case of Kepler-38*, *Astronomy and Astrophysics*, **564**, article id. A72
- Mueller, T., and **Haghighipour, N.**, 2014, *Calculating the Habitable Zone of Multiple Star Systems (<http://astro.twam.info/hz>)*, *Astrophysical Journal*, **782**, article id. 26
- Izidoro, A., **Haghighipour, N.**, Winter, O. C., and Tsuchida, M., 2014, *Terrestrial Planet Formation in Protoplanetary Disk With a Local Mass Depletion: A Successful Scenario for the Formation of Mars*, *Astrophysical Journal*, **782**, article id. 31
- Haghighipour, N.**, Capen, S., and Hinse, T. C., 2013, *Detection of Earth-mass and Super-Earth Trojan Planets Using Transit Timing Variation Method*, *Celestial Mechanics and Dynamical Astronomy*, **117**, 75
- Haghighipour, N.**, and Kaltenegger, L., 2013, *Calculating the Habitable Zone of Binary Star Systems II: P-Type Binaries*, *Astrophysical Journal*, **777**, article id. 166
- Kaltenegger, L., and **Haghighipour, N.**, 2013, *Calculating the Habitable Zone of Binary Star Systems I: S-Type Binaries*, *Astrophysical Journal*, **777**, article id. 165
- Oshagh, M., Bouè, G., Figueira, P., Santos, N. C., and **Haghighipour, N.**, 2013, *Probing the effect of gravitational microlensing on the measurements of the Rossiter-McLaughlin effect*, *Astronomy & Astrophysics*, **558**, article id. A65

Oshagh, M., Santos, N. C., Boisse, I., Bouè, G., Montalto, M., Dumusque, X., and **Haghighipour, N.**, 2013, *The effect of stellar spots on the high precision transit light curve*, *Astronomy & Astrophysics*, **556**, article id. A19.

Hsieh, H., Kaluna, H. M., Novakovic, B., Yang, B., **Haghighipour, N.**, et al., 2013, *Main-Belt Comet P/2012 T1 (PANSTARRS)*, *Astrophysical Journal Letters*, **771**, article id. L1

Haghighipour, N., 2013, *The Formation and Dynamics of Super-Earth Planets*, *Annual Review of Earth and Planetary Science*, **41**, 469-495

Farihi, J., Bond, H. E., DuFour, P., **Haghighipour, N.**, Schaefer, G. H., Holberg, J. B., Barstow, M. A., Burleigh, M. R., 2013, *Orbital and Evolutionary Constraints on the Planet Hosting Binary GJ 86 from the Hubble Space Telescope*, *Monthly Notices of the Royal Astronomical Society*, **430**, 652-660

Izidoro, A., Torres, K. S., Winter, O. C., and **Haghighipour, N.**, 2013, *A Compound Model for the Origin of Earth's Water*, *Astrophysical Journal*, **767**, article id. 54

Eggl, S., **Haghighipour, N.**, Pilat-Lohinger, E., 2013, *Detectability of Earth-Like Planets in the Circumstellar Habitable Zone of Binary Star Systems with Sun-Like Components*, *Astrophysical Journal*, **764**, article id. 130

Eggl, S., Pilat-Lohinger, E., Funk, B., Georgakarakos, N., and **Haghighipour, N.**, 2013, *Circumstellar Habitable Zones of Binary Star Systems in the Solar Neighborhood*, *Monthly Notices of the Royal Astronomical Society*, **428**, 3104-3113

Oshagh, M., Boisse, I., Boué, G., Montalto, M., Santos, N. C., Bonfils, X., and **Haghighipour, N.**, 2013, *SOAP-T: A Tool to Study the Light-Curve and Radial Velocity of a System With a Transiting Planet and a Rotating Spotted Star*, *Astronomy & Astrophysics*, **549**, id.A35.

Orosz, J. A., Welsh, W. F., Carter, J. A., Fabrycky, D. C., Cochran, W. D., Endl, M., Ford, E. B., **Haghighipour, N.**, et al., 2012, *Kepler47: A Transiting Circumbinary Multi-Planet System*, *Science*, **337**, 1511

Orosz, J. A., et al. (including **Haghighipour, N.**), 2012, *The Neptune-sized Circumbinary Planet Kepler 38b*, *Astrophysical Journal*, **758**, article id. 87

Haghighipour, N., Butler, R. P., Rivera, E. J., Henry, G. W., and Vogt, S. S., 2012, *The Lick-Carnegie Survey: A New Two-Planet System Around the Star HD 207832*, *Astrophysical Journal*, **756**, article id. 91

Vogt, S. S., Butler, R. P., and **Haghighipour, N.**, 2012, *GJ 581 update: Additional Evidence for a Super-Earth in the Habitable Zone*, *Astronomische Nachrichten*, **333**, 561

Sudol, J. J. and **Haghighipour, N.**, 2012, *High-Mass Four Planet Models for HR 8799: Constraining the Orbital Inclination and Age of the System*, *Astrophysical Journal*, **755**, article id. 38

Hinse, T. C., Gozdziewski, K., Lee, J. W., **Haghighipour, N.**, Lee, C.-U., 2012, *The proposed Quadruple System SZ Herculis: Revised LITE Model and Orbital Studies*, *Astronomical Journal*, **144**, article id. 34

Gerlach, E. and **Haghighipour, N.**, 2012, *Can GJ 876 Host Four Planets in Resonance?*, *Celes. Mech. Dynamic. Astron.*, **113**, 35

Gozdziewski, K., Nasiroglu, I., Slowikowska, A., Beuermann, K., Kanbach, G., Gauza, B., Maciejewski, A. J., Schwarz, R., Schwöpe, A. D., Hinse, T. C., **Haghighipour, N.**, Burwitz, V., Slonina, M., and Rau, A., 2012, *On the HU Aquarii planetary system hypothesis*, *Monthly Notices of the Royal Astronomical Society*, **425**, 930

Anglada-Escudé, G., Arriagada, P., Vogt, S. S., Rivera, E. J., Butler, R. P., Crane, J. D., Shectman, S. A., Thompson, I. B., Minniti, D., **Haghighipour, N.**, Carter, B. D., Tinney, C. G., Wittenmyer, R. A., Bailey, J. A., O'Toole, S. J., Jones, H. R. A., and Jenkins, J. S., 2012, *A planetary system around the nearby M dwarf GJ 667C with at least one super-Earth in its habitable zone*, *Astrophysical Journal Letters*, **751**, article id. L16

Haghighipour, N. and Scott, E. R. D., 2012 *On The Effect of Giant Planets on the Scattering of Parent Bodies of Iron Meteorite from the Terrestrial Planet Region into the Asteroid Belt: A Concept Study*, *Astrophysical Journal*, **749**, article id.113

Hsieh, H., Yang, B., **Haghighipour, N.** et al., 2012, *Discovery of Main Belt Comet P/2006 VW₁₃₉ by PAN-STARRS1*, *Astrophysical Journal Letters*, **748**, article id. L15

Hsieh, H., Yang, B. and **Haghighipour, N.**, et al. 2012, *The Observational and Dynamical Characterization of Main-Belt Comet P/2010 R2 (La Sagra)*, *Astronomical Journal*, **143**, article id. 104

Hinse, T. C., Lee, J. W., Gozdziewski, K., **Haghighipour, N.**, Lee, C.-U., and Scullion, E. M., 2012, *New Light-Travel Time Models and Orbital Stability Study of the Proposed Planetary System HU Aquarii*, *Monthly Notices of the Royal Astronomical Society*, **420**, 3609

Oshagh, M., Boué, G., **Haghighipour, N.**, Montalto, M., Figueira, P. and Santos, N. C., 2012 *Transit Timing Measurements Using the Model-Independent Barycenter Method: Application to LHS 6343 System*, *Astronomy & Astrophysics*, **540**, article id. A62

Hsieh, H., Yang, B., **Haghighipour, N.**, 2012, *Optical and Dynamical Characterization of Peculiar Main-Belt Object (596) Scheila*, *Astrophysical Journal*, **744**, article id. 9

Haghighipour, N., 2011, *Habitable extrasolar planets: from theory to observations*, Boletín de la Asociación Argentina de Astronomía, **54**, 29

Haghighipour, N., Kiste, S., 2011, *On the Detection of (Habitable) Super-Earths Around Low Mass Stars Using Kepler and Transit Timing Variation Method*, Celes. Mech. Dynamic. Astron., **111**, 267

Haghighipour, N., 2011, *Super-Earths: A New Class of Planetary Bodies*, Journal of Contemporary Physics, **52**, 403

Schwarz, R., **Haghighipour, N.**, Eggl, S., Pilat-Lohinger, E., Funk, B., 2011, *Prospects of the Detection of Circumbinary Planets With Kepler and CoRoT Using the Variations of Eclipse Timing*, Monthly Notices of the Royal Astronomical Society, **414**, 2763.

Meschiari, S., Laughlin, G., Vogt, S. S., Butler, R. P., Rivera, E. J., **Haghighipour, N.**, Jalowiczor, P., 2011, *The Lick-Carnegie Survey: Four New Exoplanet Candidates*, Astrophysical Journal, **727**, 117.

Vogt, S. S., Butler, R. P., Rivera, E. J., **Haghighipour, N.**, Henry, G. W., Williamson, M. H., 2010, *The Lick-Carnegie Exoplanet Survey: A 3.1 M_{\oplus} Planet in the Habitable Zone of the Nearby M3V Star Gliese 581*, Astrophysical Journal, **723**, 954.

Beaugé, C., Leiva, A. M., **Haghighipour, N.**, Otto, J. C., 2010, *Dynamics of planetesimals due to gas drag from an eccentric precessing disc*, Monthly Notices of the Royal Astronomical Society, Monthly Notices of the Royal Astronomical Society, **408**, 503.

Rivera, E. J., Laughlin, G., Butler, R. P., Vogt, S. S., **Haghighipour, N.**, Meschiari, S., 2010, *The Lick-Carnegie Exoplanet Survey: a Uranus-Mass Fourth Planet for GJ 876 in an Extrasolar Laplace Configuration*, Astrophysical Journal, **719**, 890.

Haghighipour, N., Vogt, S. S., Butler, R. P., Rivera, E. J., Laughlin, G., Meschiari, S., Henry, G. W., 2010, *The Lick-Carnegie Exoplanet Survey: A Saturn-Mass Planet in the Habitable Zone of the Nearby M4V Star HIP 57050*, Astrophysical Journal, **715**, 271

Haghighipour, N., 2010, *The Stability and Prospects of the Detection of Terrestrial/Habitable Planets in Multiplanet and Multiple Star Systems*, EAS Publications Series, **42**, 365

Haghighipour, N., 2009, *Dynamical Constraints on the Origin of Main Belt Comets*, Meteorites and Planetary Science, **44**, 1863

Jewitt, D., Yang, B., **Haghighipour, N.**, 2009, *Main-Belt Comet P/2008 R1 (Garradd)*, Astronomical Journal, **137**, 4313

- Moskotivz, N., Lawrence, S., Jedicke, R., Willman, M., **Haghighipour, N.**, Bus, S., J., and Gaidos, E., 2008, *A Spectroscopically Unique Main Belt Asteroid: 10537 (1991 RY16)*, *Astrophysical Journal Letters*, **682**, L57
- Haghighipour, N.**, and Scott, E. R. D., 2008, *Meteorite Constraints on the Early Stages of Planetary Growth in the Inner Solar System*, Publications of the 39th Lunar and Planetary Science Conference, 1679.
- Haghighipour, N.**, and Jewitt, D., 2008, *A Region Void of Irregular Satellites Around Jupiter*, *Astronomical Journal*, **136**, 909.
- Gaidos, E., **Haghighipour, N.**, Agol, E., Latham, D., Raymond, S. N., and Rayner, J., 2007, *New Worlds on the Horizon: Earth-Size Planets Close to Other Stars*, *Science*, **318**, 210
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Conference, Workshops, and Special Sessions Organized

IAU GA Planets Days: Recent Advances in Planetary Science

Vienna, Austria (August 24 – 27, 2018)

Organizer: **N. Haghighipour**

IAU Symposium 345: Origins: From the Protosun to the First Steps of Life

Vienna, Austria (August 20 – 31, 2018)

Organizers: B. Elmgreen, V. Toth, **N. Haghighipour**, M. Guendel

Search for Life: From Early Earth to Exoplanets

Quy Nonh, Vietnam (December 12 – 16, 2016)

Member of the Scientific Advisory Committee and Lecturer

Extrasolar Planets: Formation and Dynamics

Bad Honnef, Germany (June 26 – July 1, 2016)

Organizer and Lecturer

Extreme Solar System III: Session on Habitability, and Chair of LOC

Kona, Hawaii (November 29 – December 4, 2015)

Organizer and Chair of LOC: **N. Haghighipour**

Dynamical Problems in Extrasolar Planets Science

IAU General Assembly

Honolulu, Hawaii (August 10-14, 2015)

Scientific Organizing Committee Co-Chairs: A. Morbidelli, **N. Haghighipour**

Search For Water and Life's Building Blocks in the Universe

IAU General Assembly

Honolulu, Hawaii (August 2-7, 2015)

Scientific Organizing Committee: S. Kwok, **N. Haghighipour**, et al.

Protostars and Protoplanets VI

Heidelberg, Germany (July 15-20, 2013)

Scientific Advisory Committee: Andre, Boss, **Haghighipour**, et al.

Exoplanets in Multibody Systems in the Kepler Era

Aspen, Colorado (February 9-16, 2013)

Organizers: E. Ford & **N. Haghighipour**

IAU Symposium 293: Formation, Detection, and Characterization of Habitable Extrasolar Planets

Beijing, China (August 27-31, 2012)

Organizer: **N. Haghighipour** & J. L. Zhou

Cool Stars 17: 17th Cambridge workshop on cool stars, stellar systems, and the Sun

Barcelona, Spain (June 24-29, 2012)

Organizer: Mercedes Morrales-Lopez, **N. Haghighipour**, et al.

Transiting Planets in the House of the Sun

A workshop on M dwarf stars and their planets

Haleakala, Maui (June 4-6, 2012)

Scientific Organizing Committee: E. Gaidos, **N. Haghighipour**, et al.

Cutting Edge Dynamics: From Planetary Rings to Galaxies

Special session at the annual meeting of the American Astronomical Society

Austin, Texas (January 8-13, 2012)

Organizer: **N. Haghighipour**, D. Scheers, J. Sellwood

Extreme Solar Systems II: Session on Habitability

Jackson Hole, Wyoming (September 11-17, 2011)

Organizer: **N. Haghighipour**, G. Marcy, F. Rasio, S. Sigurdsson, E. Ford

The 8th Humboldt Conference on Celestial Mechanics

Salzbuyrg, Austria (March 20-26, 2011)

Scientific Organizing Committee: R. Dvorak, **N. Haghighipour**, et al.

The Dynamics of Early Earth-like and Super-Earth Planets

A special session at the Goldschmidt 2009 Conference

Davos, Switzerland (June 21-26, 2009)

Organizer: **Nader Haghighipour**, Lisa Kaltenecker, Steinn Sigurdsson, Mark Harrison

Formation, Composition, and Detection of Habitable Super-Earths

A special session at the Aspen Summer Workshop on Super-Earths

Aspen, CO (August 17-22, 2008)

Organizer: **Nader Haghighipour**, Steinn Sigurdsson

Formation, Composition, and Detection of Habitable Extrasolar Planets

A topical session at the Astrobiology Conference 2008

Santa Clara, CA (April 14-17, 2008)

Organizer: **Nader Haghighipour**, Vikki Meadows, Stein Sigurdsson

Workshop on the Origin of Earth Water

Molokai, HI (February 27-March 1, 2008)

Organizer: Karen Meech, **Nader Haghighipour**, Mike Mottl, Mike Mumma, Stephen Mojzsis

Bioastronomy 2007; Molecules, Microbes and Extraterrestrial Life

San Juan, PR (July 16-20, 2008)

Scientific Organizing Committee: William Irvine, Peter Backus, John Baross, Alan Boss, **Nader**

Haghighipour, Karen Meech, Michael Mumma, Carol Oliver, John Rummel, Janet Siefert, Thorsteinn Thorsteinsson, Daniel Werthimer

Water in Habitable Planetary Systems

Topical session in 210 meeting of AAS

Honolulu, HI (27-31, May 2007)

Organizer: **Nader Haghighipour**, Karen Meech

Hot-Earths: Formation, Detection, and Structure

Special session in 210 meeting of AAS

Honolulu, HI (27-31, May 2007)

Organizer: **Nader Haghighipour**, Eric Gaidos

Formation and Detection of Habitable Planets

Special session in 209 meeting of AAS

Seattle, WA (January 5-10, 2007)

Organizer: **Nader Haghighipour**, Karen Meech

Planets in Binary Star Systems

Special session in 207 meeting of AAS

Washington, DC (Januray 8-12, 2006)

Organizer: **Nader Haghighipour**

Invited Talks and Lectures

Modern Simulations of the Formation of Terrestrial Planets and Origin of Earth's Water

Yuval Ne'eman Distinguish Lectures in Geophysics, Atmospheric Physics and Space Science
University of Tel Aviv, Israel (April 16, 2018)

Kepler and the Discovery of Worlds with Multiple Suns

Yuval Ne'eman Distinguish Lectures in Geophysics, Atmospheric Physics and Space Science
University of Tel Aviv, Israel (April 15, 2018)

Kepler's Discovery of New Habitable Worlds

Hebrew University of Jerusalem
Jerusalem, Israel (April 12, 2018)

The Unifying Power of Astrobiology

Keynote talk at the Astrobiology Conference
Hebrew University of Jerusalem, Israel (April 10, 2018)

Kepler's Discovery of New Habitable Worlds

Yuval Ne'eman Distinguish Lectures in Geophysics, Atmospheric Physics and Space Science
University of Tel Aviv, Israel (April 9, 2018)

Kepler's Discovery of New Habitable Worlds

New York University in Abu Dhabi
Abu Dhabi, United Arab Emirates (February 21, 2018)

The Unifying Power of Research on Life

Search for Life: From Early Earth to Exoplanets
Qui Nhon, Vietnam (December 11 – 16, 2016)

Life, elsewhere in the Universe

Christ Church Uniting
Kailua, HI (January 7, 2018)

The Unifying Power of Astrobiology

Astrobiology Conference
Coyhaique, Chile (November 27 – Dec 1, 2017)

Formation and Evolution of Planetary Systems

Training School on Astrobiology
Santiago, Chile (November 24 – 25, 2017)

The Fall of the Nice Model

Institute for Astronomy, University of Hawaii-Manoa
Honolulu, HI (October 3, 2017)

Formation of Terrestrial Planet in the Solar System

The 9th Humboldt Colloquium on Celestial Mechanics
Bad Hofgastein, Austria (March 20-24, 2017)

Formation of Solar System

Training School on Basic Astrobiology
Qui Nhon, Vietnam (December 9 – 11, 2016)

Kepler Habitable Zone Planets

Hawaii Institute for Geophysics and Planetology
Honolulu, HI (November 14, 2016)

Kepler Habitable Zone Planets

Windward Community College
Kaneohe, HI (September 22, 2016)

Terrestrial Planet Formation in the Solar System and Beyond

Department of Physics and Astronomy, West Chester University
West Chester, PA (September 16, 2016)

Kepler's Discovery of Worlds with Multiple Suns

Department of Terrestrial Magnetism, Carnegie Institution of Washington
Washington, DC (September 15, 2016)

Circumbinary Planets: New Challenges of Exoplanetary Astronomy

AOGS (Asia Oceania Geosciences Society)
Beijing, China (July 31 – August 5, 2016)

Giant Extrasolar Planets in the Habitable Zone

AOGS (Asia Oceania Geosciences Society)
Beijing, China (July 31 – August 5, 2016)

Habitability and Habitable Zone

Workshop on Extrasolar Planets: Formation and Dynamics
Bad Honnef, Germany (June 26 – July 1, 2016)

Planets and Binary Star Systems

Workshop on Extrasolar Planets: Formation and Dynamics
Bad Honnef, Germany (June 26 – July 1, 2016)

Iranian National Observatory (INO340)

Annual Meeting of the American Association of Advancement of Science
Washington, DC (February 13, 2016)

New Models of Terrestrial Planet Formation in Solar System

Institute for Astronomy, Dept. Geophysics & Atmospheric Sciences, University of Sao Paulo
Sao Paulo, Brazil (November 19, 2015)

Main Belt Comets: A new Class of Icy Asteroids

Institute for Astronomy, Dept. Geophysics & Atmospheric Sciences, University of Sao Paulo
Sao Paulo, Brazil (November 16, 2015)

Habitability in Solar System and Beyond

2nd COSPAR Symposium
Iguacu Falls, Brazil (November 9 – 13, 2015)

Tattoine: From Science Fiction to Reality

HawaiiCon 2015
Kona, Hawaii (September 13, 2015)

Extrasolar Planets: Two Decades of Mysteries, Challenges, and Triumphs

Department of Physics and Astronomy, West Chester University
West Chester, Pennsylvania, (August 27, 2015)

Formation of Terrestrial Planets in the Inner Solar System

Department of Astronomy, University of Tel Aviv
Tel Aviv, Israel (June 8, 2015)

Planets and Binary Stars Systems

Department of Physics & Astronomy, San Francisco State University
San Francisco, California (March 24, 2015)

Terrestrial Planet Formation in the Context of Giant Planet Migration

Department of Physics & Astronomy, San Francisco State University
San Francisco, California (March 23, 2015)

Terrestrial Planet Formation in the Context of Giant Planet Migration

Department of Earth, Planetary, and Space Science, UCLA
Los Angeles, California, (March 12, 2015)

Terrestrial Planet Formation in the Context of Giant Planet Migration

Queen Mary College
London, UK (February 5, 2015)

Terrestrial Planet Formation in the Context of Giant Planet Migration

Department of Applied Mathematics and Theoretical Physics, University of Cambridge
Cambridge, UK (February 2, 2015)

Formation and Evolution of Circumbinary Planets

Institute of Astronomy, University of Cambridge,
Cambridge, UK (February 4, 2015)

Terrestrial Planet Formation and the Origin of Mars

Max Planck Institute for Astronomy
Heidelberg, Germany (January 16, 2015)

Formation and evolution of circumbinary planets

Institute for Theoretical Astrophysics, University of Heidelberg
Heidelberg, Germany (January 12, 2015)

Formation and evolution of circumbinary planets

Department of Astronomy, University of Goettingen
Goettingen, Germany (December 4, 2014)

Terrestrial Planet Formation and the Origin of Mars

Department of Astronomy, University of Goettingen
Goettingen, Germany (December 4, 2014)

Formation and evolution of circumbinary planets

Department of Astronomy, University of Jena
Jena, Germany (December 4, 2014)

Terrestrial Planet Formation and the Origin of Mars

Department of Astronomy, University of Jena
Jena, Germany (December 4, 2014)

Lecture Series on Terrestrial Planet Formation, Habitability, and Planets in Binary Stars

Summer course on Exoplanets
La Palma, Canary Islands (September 24 – October 2, 2014)

Formation and evolution of planets in and around binary stars systems

Living Together: Planets, Host Stars, and Binaries
Litomyšl, Czech Republic (September 8 – 12, 2014)

Terrestrial Planet Formation and the Origin of Mars

Department of Physics and Astronomy, University of Preston
Preston, England (August 5, 2014)

Terrestrial Planet Formation and the Origin of Mars

Hawaii Institute for Geology and Planetology, University of Hawaii
Honolulu, Hawaii (May 7, 2014)

Terrestrial Planet Formation and the Origin of Mars

NASA Goddard Space Center
Greenbelt, Maryland (March 7, 2014)

Terrestrial Planet Formation and the Origin of Mars

Department of Astronomy, University of Maryland
College Park, Maryland (March 6, 2014)

Terrestrial Planet Formation and the Origin of Mars

University of Missouri-Columbia
Columbia, Missouri (March 4, 2014)

Science with Kepler

University of Missouri-Columbia
Columbia, Missouri (March 3, 2014)

Terrestrial Planet Formation and the Origin of Mars

Department of Terrestrial Magnetism, Carnegie Institution of Washington
Washington, DC (February 26, 2014)

A New Model For the Formation of Terrestrial Planets and the Origin of Mars

Institute for Astronomy, University of Hawaii
Honolulu, Hawaii (February 5, 2014)

Terrestrial/Habitable Planet Formation in Solar System and Exoplanets

DLR, Berlin (December 16 – 19, 2013)

Dynamics of Planet Formation in Binaries and Outside

Exoplanets and Disks: Their Formation and Diversity
Kona, Hawaii (December 8 – 12, 2013)

Habitability and Habitable Zone

The 1st COSPAR Symposium
Bangkok, Thailand (November 11 – 15, 2013)

Science With Kepler

International Occultation Timing Association
Tehran, Iran (remote presentation via Skype, October 24 2013)

New Model of the Formation of Terrestrial Planets in Our Solar System

Institute for Astronomy, University of Vienna
Vienna, Austria (October 14, 2013)

Science With Kepler

Annual Meeting of the German Astronomical Society

Tuebingen, Germany (September 24 – 27, 2013)

Video at http://timmsrc.uni-tuebingen.de/Player/Player/UT_20130925_002_AG2013_0001

New Models of the Terrestrial Planet Formation in Our Solar System

Institute for Solar Physics

Freiburg, Germany (July 25, 2013)

Habitable Extrasolar Planets: Formation, Observation, and Challenges

International Symposium on Planetary Sciences

Shanghai, China (July 1 – 4, 2013)

Detecting Earth-Like Planets and Water Origin

International Symposium on Planetary Sciences

Shanghai, China (July 1 – 4, 2013)

Planets in and Around Binary Stars

Paris Observatory

Paris, France (May 21, 2013)

A Compound Model for the Origin of Earth's Water

Paris Observatory

Paris, France (May 21, 2013)

Lecture Series on Formation of Planetary Systems and Extrasolar Planets

UNESP, University Estadual Paulista

Guaratingueta, Brazil (April 29 – March 3, 2013)

Planets in and Around Binary Stars

Humboldt Foundation

Hannover, Germany (March 20, 2013)

Habitable Circumbinary Planets

Exoplanets in Multi-body Systems in the Kepler Era

Aspen, Colorado (February 9 – 16, 2013)

Formation Mars and Terrestrial Planets

University of Tuebingen, Department of Astronomy

Tuebingen, Germany (January 15, 2013)

Planets in and Around Binary Stars

University of Tuebingen

Tuebingen, Germany (January 15, 2013)

The Quest for Habitable Worlds

University of Tuebingen, Office of International Scholars
Tuebingen, Germany (January 9, 2013)

Planet Detection Using Transit/Eclipse Timing Variation Method

International Occultation and Transit Association
Tehran, Iran (remote presentation via Skype, November 2, 2012)

Planets with Two Stars

Korean Institute for Space Sciences
Daejeon, South Korea (September 3, 2012)

Exoplanets and KMTNet

Korean Institute for Space Sciences
Daejeon, South Korea (September 3, 2012)

The Quest for Habitable Planets

Beijing Planetarium
Beijing, China (August 26, 2012)

Detecting Planets Using Transit Photometry: Current State and Future Prospects

Collaboration Meeting on Antarctic Survey Telescope
LiJiang Yunnan, China (August 16-18, 2012)

Planetesimal Capture by an Evolving Gaseous Giant Planet

Harvard University
Cambridge, Massachusetts (April 23, 2012)

The Quest for Habitable Planets

Astronomy Frontiers Talk
University of Hawaii-Manoa (March 13, 2012)

Habitable Extrasolar Planets: From Theory to Observation

Institute of Astronomy, Geophysics, and Atmospheric Sciences
University of Sao Paulo, Brazil (March 7, 2012)

The Search for Earth-like Planets Outside Our Solar System

Hawaii Space Lecture Series
NASA Pacific Regional Planetary Data Center and Hawaii Institute for Geophysics and
Planetology, University of Hawaii-Manoa (January 24, 2012)

Transit Timing Variation Method: A Strong, Successful Technique for Detecting Small Planets

Institute for Astronomy and Space Physics, Ciudad University
Buenos Aires, Argentina (October 13, 2011)

Habitable Extrasolar Planets: From Theory To Observations

First Annual Binational Chilean-Argentinian Astronomy Meeting
San Juan, Argentina (October 3-7, 2011)

Detection of Habitable Trojan Planets Using Transit Timing Variation Method

Extreme Solar System II
Jackson Hole, Wyoming (September 11-17, 2011)

Terrestrial Planet Formation and Water Delivery

Workshop on the Origin of Earth's Water
Iceland (September 4-10, 2011)

Comets and the Origin of Earth's Water

810th Anniversary of Nasireddin Tusi
Azerbaijan University
Baku, Azerbaijan (June 16-18, 2011)

Extrasolar Planets: Theoretical and Observational Challenges

Qafqaz University
Baku, Azerbaijan (June 15, 2011)

The Effects of Secular Resonances on Terrestrial Planets Formation

8th Humboldt Conference on Celestial Mechanics
Bad Hofgastein, Austria (March 21-26, 2011)

***From Planetesimals to Terrestrial Planets: Formation of Habitable Planets
In Binary Star Systems***

UNESP, University Estadual Paulista
Guaratingueta, Brazil (August 16, 2010)

Terrestrial Planet Formation Around M stars

Institute for Astronomy, University of Vienna
Vienna, Austria (May 13, 2010)

Origin and Activation of Main Belt Comets

Asian Oceania Geosciences Society (AOGS)
Singapore (August 11-15, 2009)

Dynamical Modeling of the Origin and Activation Mechanism of Main Belt Comets

IAU Symposium 263 (Icy Bodies of Solar System)
Rio De Janeiro, Brazil (August 3-7, 2009)

Implications of Dynamical Stability For The Detection of Super-Earths Via Transit Timing Variation Method

Goldschmidt Conference
Davos, Switzerland (June 22-26, 2009)

Habitable Planet Formation in Binaries

Institute of Astronomy, University of Vienna
Vienna, Austria (June 18, 2009)

Formation of the Planets

Azad University
Tehran, Iran (April 13, 2009)

The Origin of Earth's Water

Institute for Theoretical Physics and Mathematics
Iranian National Observatory
Tehran, Iran (April 12, 2009)

Extrasolar Planets: Challenges Of Modern Planetary Science

University of Tehran
Tehran, Iran (April 11, 2009)

Extrasolar Planets: Challenges Of Modern Planetary Science

Sharif University of Technology
Tehran, Iran (April 8, 2009)

Detection of Super-Earth Planets via the Transit Timing Variation Method

American Geophysical Union
San Francisco, CA (December 15-19, 2008)

Dynamical Constraints on the Origin and Activation Mechanism of Main Belt Comets

Institute for Astronomy, University of Hawaii-Manoa
Honolulu, HI (September 10, 2008)

The Long-Term Stability and Prospects of the Detection of Terrestrial and Habitable Planets in Multiplanet and Multiple Star Extrasolar Planetary Systems

Extrasolar Planets in Multi-Body Systems: Theory and Observations
Torun, Poland (August 25-29, 2008)

Dynamical Constraints on the Origin and Activation Mechanism of Main Belt Comets

Asteroids, Comets, and Meteorites (ACM 2008)
Baltimore, MD (July 13-18, 2008)

Formation of Extrasolar Habitable Planets

Institute for Geophysics and Extraterrestrial Physics,
Technical University of Braunschweig
Braunschweig, Germany (July 8, 2008)

The Prospects of Detecting Super-Earth Planets via the Transit Timing Variation Method

Super-Earths Workshop
Nantes, France (June 16-18, 2008)

Prospects of The Detection of Short-Period Terrestrial-Class Objects in the Vicinity of Close-in Giant Planets

AbSciCon 2008
Santa Clara, CA (April 14-17, 2008)

Gas Density/Pressure Enhanced Regions as Favorable Places for the Formation of Planetesimals via Gravitational Instability

JPL Workshop on Planet Formation Processes and the Development of Prebiotic Conditions
Pasadena, CA (March 18-21, 2008)

Formation of Habitable Planets and the Origin of Water and Volatiles

George Mason University
Fairfax, VA (February 17, 2008)

Habitable Planet Formation in Extreme Planetary Systems

IAU Symposium 249: EXOPLANETS: Detection, Formation and Dynamics,
Suzhou, China (October 22-26, 2007)

From Dust to Habitable Planets

Planetary Science Institute
Tucson, Arizona (August 20-21, 2007)

Extreme Habitability: Formation of Habitable Planets in Systems with Close-in Giant Planets and/or Stellar Companions

Bioastronomy 2007
San Juan, Puerto Rico (July 16-20, 2007)

Habitability of Planets in Binaries

Extreme Solar Systems Conference
Santorini, Greece (June 24-29, 2007)

Models of Water Delivery to Earth

210th Annual Meeting of the American Astronomical Society
Honolulu, HI (May 27-31, 2007)

Habitable Planet Formation: A Review of Current Status

209th Annual Meeting of the American Astronomical Society
Seattle, WA (January 5-10, 2007)

Habitable planet formation; A review of current status

209th Annual Meeting of the American Astronomical Society (January 5 – 10, 2007)
Seattle, WA

Is Our Solar System Unique?

Architects and Engineers of Hawaii (October 27, 2006)
Honolulu, HI

Habitable planet formation in single and binary star systems

Department of Physics and Astronomy
University of Denver (March 30, 2006)
Denver, CO

Habitable planet formation in single and binary star systems

Department of Physics and Astronomy
University of Central Florida (February 8, 2006)
Orlando, FL

Planet formation

Hawaii Institute for Geophysics and Planetology (December 2, 2005)
University of Hawaii-Manoa, Honolulu, HI

Current Status of Extrasolar Planets and New Challenges in Planetary Science

Department of Geology and Geophysics (September 16, 2005)
University of Hawaii-Manoa
Honolulu, HI

Habitable planets in binary star systems: new challenges of planetary dynamics

Planetary Science Institute (August 23, 2005)
Tucson, AZ

Habitable planets in binary star systems: new challenges of planetary dynamics

NASA/ Goddard Space Flight Center (August 17, 2005)
Greenbelt, MD

150 new planets, 150 new challenges

Mauna Kea Visitor Center (June 10, 2005)
Mauna Kea, Hawaii Island, HI

Habitable Planets and Water-Delivery in Binary Star Systems

General Meeting of NASA Astrobiology Institute (April 10, 2005)

Boulder, CO

Formation of Habitable Planets in Binary Star Systems

Aspen 2005 Winter Conference on Astrophysics

Planet Formation and Detection (February 12, 2005)

Aspen, CO

A World with Two Suns

Institute for Astronomy

University of Hawaii-Manoa (January 26, 2005)

Honolulu, HI

Extrasolar Planets; The Challenges of Planetary Science

American Center for Physics (June 16, 2004)

College Park, MD

Is Sun the Only Star with Planets?

NASA (Journey Through the Universe Program, October 20, 2003)

Washington, DC

One Hundred Other Solar Systems; How Planetary Systems Are Formed

George Mason University (March 31, 2003)

Fairfax, VA

A Study of the Stability of Multiplanet Extrasolar Planetary Systems

Institute for Geophysics and Planetary Physics (December 12, 2002)

University of California, Los Angeles

Los Angeles, CA

Rapid Migration of Small Solids in a Non-Uniform Solar Nebula

Department of Terrestrial Magnetism (November 22, 2002)

Carnegie Institution of Washington

Washington, DC

Challenges in Theoretical Astronomy

National Science Foundation (July 9, 2002)

Carnegie Institution of Washington

Washington, DC

Extrasolar Planetary Systems; Theoretical Challenges

Commerce Science and Technology Fellowship Program (June 13, 2002)

Department of Commerce, Carnegie Institution of Washington

Washington, DC

Solid-Body Dynamics in Gravitationally Unstable Protostellar Disks

Department of Astronomy (May 21, 2002)

University of Maryland-College Park

College Park, Maryland

Extrasolar Planetary Systems; What Is So Special About Them?

Department of Physics and Astronomy (April 2001)

Southwest Missouri State University

Springfield, Missouri

A Review of the Status of Planets Around Other Stars

Department of Physics (March 2001)

Loyola University

New Orleans, Louisiana

Exploring the Solar System

Space Day 2001 (February 2001)

Saint Louis Science Center

Saint Louis, Missouri

Extrasolar Planetary Systems and Planetary Dynamics

Department of Physics and Astronomy (January 2001)

University of Mississippi

Oxford, Mississippi

Interviews, Online Lectures, and Radio & TV appearances

- Training School on Astrobiology, Coyhaique, Chile (2017)
<http://astrobiovideo.com/en/video/127>
<http://astrobiovideo.com/en/video/118>
- Interview with Nature (2017)
- Interview with “Daneshman”, the Iran’s Science magazine (2017)
- Interview with Iran’s “Sarus” Magazine (2017)
- Interview with Iranian TV program “Night Skies” (2017)
- Training School and Conference on origin of Life, Quy Nhon, Vietnam (2016)
<https://www.youtube.com/watch?v=IbgnsuGxYQ&feature=youtu.be>
<https://www.youtube.com/watch?v=G9p3ntV3NpY>
- Interview by Julie Rose, Top of Minds, on BYU Radio (2017) ([audio link](#))
- Interview with Science Bites, Hawaii NPR (2016)
- Interview with Science Bites, Hawaii NPR (2015)
- Interview with Science News for Students (2015)
<https://student.societyforscience.org/article/tatooine-star-wars-planet-has-two-suns>
- Interview with Huffington Post Science (2015)
http://www.huffingtonpost.com/entry/a-10th-tatooine-discovered_55cccfc1e4b064d5910ac23a
- TV Interview with Hawaii News channel KITV (2015)
- Interview with Iranian Students News Agency (ISNA) (2015)
- Interview with Deutschlandfunk (Germany’s NPR) (2014)
(www.deutschlandfunk.de/astronomie-ein-planet-zwei-sonnen.676.de.html?dram:article_id=299293)
- Interview with Nature Journal (2014)
(<http://www.nature.com/news/earth-sized-exoplanet-spotted-in-star-s-habitable-zone-1.15066>)
- TIME Magazine (2013)
(http://www.time.com/time/video/player/0,32068,2286956635001_2141568,00.html)
- TV interview with Beijing TV network (2012)
- Interview with China TV CCTV 1 (2012)
- Interview with Science News (2012)
- Interview with the ABC news (2012)
- TV Interview with Baku television (AZTV) (2011)
- Interview with Popular Mechanics magazine (2011)
- TV Interview with Hawaii News channels: KGMB, KHNL (2010)
(<http://www.hawaiinewsnow.com/Global/story.asp?S=13341960>)
- TV Interview with Hawaii News channel KITV (2010)
(<http://www.kitv.com/video/25917272/detail.html>)
- TV Interview with University of Hawaii News channel (2010)
(http://ulocal.kitv.com/_CampusConnectionsNo-15mp4/video/1472440/62911.html)
- Interview with Ontario radio station (2010)

- Interview with India Daily Telegraph (2010)
- Interview with Shargh Newspaper (2010)
(<http://sharghnewspaper.ir/Released/89-08-08/459.htm>)
- Interview with ISNA (Iranian Student New Agency) (2010)
(<http://isna.ir/isna/NewsView.aspx?ID=News-1626242&Lang=P>)
- Interview with Scientific American (2010)
(<http://www.scientificamerican.com/article.cfm?id=exomoons-habitability>)
- Interview with Jaam-e-Jam newspaper (2010)
- TV appearance at “Night Skies”, Channel 4, IRIB (2009)
- Interview with Nojoom, the astronomy magazine of Iran (2009, 2010)
- Interview with Sciencenews (2008)
(http://www.sciencenews.org/view/generic/id/34196/title/Icy_Asteroids)
- Interview with Scienceline (2007) (<http://scienceline.org/2007/12/05/double-sunrise/>)
- Interview with Science Magazine (2007)
- Radio Interview with AAAS Radio (2006)
- Radio Interview with SETI Radio (2005)
(http://www.ifa.hawaii.edu/%7Enader/AWA_05-10-09.mp3)
- Radio Interview with KPUA Radio, Hilo, HI (2005)
- Interview with New Scientist Magazine (2005, 2006)
- Interview with Science News Magazine (2005)

Peer Review

-Referee for the Astrophysical Journal, Astronomical Journal, Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics, Icarus, Celestial Mechanics and Dynamical Astronomy, Journal of Geophysical Research, Journal of Advances in Space Research, Publications of the Astronomical Society of Pacific, Space Science Review, International Journal of Astrobiology

-Member of the review panel for the

- NASA Emerging Worlds, XRP, OSS, PAST, OPR, PG&G,
- NASA Lunar Advanced Science and Exploration Research program,
- NASA Astrobiology Institute,
- NASA Postdoctoral Program,
- NSF Astronomy and Astrophysics Program,
- European Research Council Executive Agency
- Austria Science Foundation (FWF),
- Belgium Funds for Scientific Research,
- Austrian Academy of Science,
- Leibniz Research Fellowship
- Chilean National Commission on Scientific and technology Development,
- Georgian Science Foundation,
- Croatian Unity Through Knowledge Funds,
- International Committee of the American Astronomical Society,

Teaching Experiences

- Introduction to Astronomy (non-majors, undergraduate)
- Lecturing Planet Formation, Extrasolar Planets, Solar System, and Habitability in many workshops and training schools (e.g., Austria 2018, Chile 2017, Vietnam 2016, Sweden 2015, Canary Islands 2014, Brazil 2011-3, Austria 2010)
- Solar System (Graduate level)
- Planetary Dynamics (Graduate level)
- Astrobiology (Undergraduate and Graduate levels)
- Calculus-Based Introductory Physics
- Algebraic-Based Introductory Physics
- Introductory Mathematics

Graduate Advisee

- Aaron Do
- Denise Hung (Member of PhD committee, 2017-present)
- Larissa Nofi (member of PhD committee, 2016-present)
- Louis Scuderi (Masters, graduated in 2014)
- Mahmmoudreza Oshagh (PhD, Co-advising with Nuno Santo, Univ. Porto, graduated in 2014)
- Andre Izidoro (Visiting PhD Student, Univ. Sao Paulo, Brazil, graduated in 2012)
- Heather Kaluna (Member of PhD committee, graduated in 2015)
- Andrew Mann (Member of PhD committee, graduated in 2013)
- Brendan Bowler (Member of PhD committee, graduated in 2013)
- Nicholas Moskovitz (Member of PhD committee, graduated in 2009)

Undergraduate Advisee

- Christophe Lenert (University of Leon, 2018)
- Catalina Miritescu (Caltech, 2017)
- Lucas Moda (San Paulo University, 2017)
- Mattia Pionelli (Delft University of Technology, 2016)
- Franziska Schmidt (University of Tuebingen, 2013)
- Erci Sansone (Keele University, Summer Intern 2011)
- Sara Rastegar (Northwestern University)
- Stephanie Capen (University of Hawaii-Manoa, Summer Intern 2009)
- Sabrina Kirste (Planetary Institute, Berlin, Germany, 2008)
- James Haynes (Manchester Community College, Summer Intern 2007)
- Joseph Castro (University of Hawaii-Manoa, Summer Intern 2006-7)
- Sarah Rugheimer (University of Calgary, Summer Intern 2006)
- Desiree Cotto-Figueroa (Ohio University, Summer Intern 2005)
- Adrienne Dove (University of Colorado in Boulder, Summer Intern 2005)
- Timothy Brandon Means (University of Washington-Seattle, Summer Intern 2004)
- Abigail A Fraeman (Yale University, Summer Intern 2004-2005)

- Jared Crossley (New Mexico State University, Summer Intern 2003)
- Eric Nadal (University of British Columbia, Summer Intern 2002)
- James Norwood (New Mexico State University, Summer Intern 2002)
- Ariana Gleason (University of California-Berkeley, Summer Intern 1997)