

# CURRICULUM VITAE

## LISA KALTENECKER (PHD, MENG, MSCI)

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### EMPLOYMENT & RESEARCH EXPERIENCE

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Research Group Leader, Max Planck Institute, Heidelberg, Germany	2010 - current
Research Associate, Harvard Smithsonian Center for Astrophysics, USA	2010 - current
Lecturer, Heidelberg University, Astronomy Department, Germany	2008 - 2013
Lecturer, Harvard Astronomy Department, USA	2008 - 2013
Research Associate, Harvard Astronomy Department	2009 - 2010
Postdoctoral Fellow SAO, Harvard Smithsonian CfA, USA	2005 - 2009
Consultant to ESA Science Dep. AURORA Technology: Netherlands	2003 - 2004
Young Engineer ESA/ESTEC: Dep. of Future Projects, Netherlands	2001 - 2002
Research fellow, Georgia Institute of Technology, USA	2000 - 2001
LIGO 2000 Summer Undergraduate Research Fellow, California Inst. of Technology, USA	2000
Research fellow, Instituto de Astrofisica de Canarias (IAC), Spain	1998 - 1999

### EDUCATION

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<b>Ph.D.</b> , Astrophysics, Karl Franzens Univ Graz / ESTEC <i>"Search for Extraterrestrial Planets: DARWIN mission Target Stars &amp; Array Architectures"</i>	<i>graduated summa cum laude</i> 2001-2005
<b>M.Sci.</b> , Astrophysics, Karl Franzens Univ Graz/IAC <i>"Extrasolar Planet Search: Formation of Extrasolar Planets and Detection Methods"</i>	<i>graduated summa cum laude</i> 1995-1999
<b>M.Eng.</b> , Physics & Engineering, Univ. of Technology Graz <i>"Application of Optical Tweezers in Medicine &amp; Biology"</i>	<i>graduated summa cum laude</i> 1995-2001

### AWARDS & HONORS

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Simon Foundation Award "Simons Collaboration on the Origins of Life"	2013
European Commission Role Model for Women in Science and Research	2012
Prize lecture & Heinz Maier Leibnitz Prize for Physics of Germany	2012
Prize lecture Conrad Festa, College of Charleston	2010
Tinsley Visiting Scholar, University of Texas Austin	2009
P. Hertelendy Award and Prize Lecture for Outstanding Young Scientist at CfA 2007	2007
America's Young Innovator in Arts and Science Award 2007, Smithsonian Magazine	2007
Austrian National Award for Outstanding Academic Achievements	2005
Highest Austrian Academic Honor SubAuspices (awarded personally by Austrian president)	2004
National Award of the Ministry of Educations for Outstanding Academic Achievement(PhD)	2004
National Award of the Ministry of Educations for Outstanding Academic Achievement(MSc)	2000
Awards of Academic Achievement, Tech. Univ. Graz & KF Univ Graz	1996 through 2001

### PRINCIPAL AND CO-INVESTIGATOR

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Simon Foundation Award "Simons Collaboration on the Origins of Life" (1 Mio\$)	2013
Co-I, NASA Transiting Exoplanet Survey Satellite (TESS) (explorer mission)	2013 - current
Emmy Noether Research Group Award (1 Mio Euro)	2010 - current
PI, Japanese Exoplanet Research Platform (10 year funding awarded)	2012 - current
PI ISSI team "1D/3D Exoplanet Atmospheres and their Characterization"	2011 - current
Co-I, NASA Astrobiology Institute: Advent of Complex Life	2009 - 2012

## EDITORIAL BOARD OF INTERNATIONAL JOURNALS & BOOK SERIES

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Astrobiology (editorial board), Encyclopedia of astrobiology (field editor), Springer Astrobiology

## COMPETITIVE AWARDED RESEARCH FUNDS

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Simons Foundation "Spectral Fingerprints of rocky Exoplanets" (1M \$)	2013 – current
Emmy Noether DFG group funding "Super-Earths and Life" (1M Euro)	2010 – current
Heinz Maier Leibnitz Prize for Physics, Germany (16k Euro)	2012
Paul Hertelendy Prize for Outstanding Young Scientists, CfA (500 \$)	2007

## INTERNATIONAL SCIENCE PANELS

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TESS Habitability Working Group (chair)	2013 – current
Kepler Habitability Working Group	2013 – current
ISSI team lead "1D/3D Exoplanet Atmospheres and their Characterization "	2007 – 2010
NASA Extrasolar Planet Analysis Group (ExoPAG) - Executive Council Member	2009 – 2014
Pale Blue Dot Initiative: Lead of the Habitability Group	2008 – 2009
ISSI team member "Evolution of Exoplanet Atmospheres and their Characterization"	2007 – 2010
TPF-I: Science Working Group: invited external expert	2005 – 2008
Darwin Science Advisory Committee: member as part of ESA & external expert	2002 – 2008

## SERVICE IN THE SCIENCE COMMUNITY

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Review panel: NASA, NSF, Royal Society, DLR    Referee: Astrobiology, Icarus, ApJ /L, A&A, MNRS

## MEMBERSHIP/PROFESSIONAL ASSOCIATIONS

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IAU, AAS, DPS, Europlanet Network, ISSI, CfA Women in Science, ÖWF (Austrian Space Forum)

## PROFESSIONAL MANAGEMENT & TEAM BUILDING COURSES

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Personal-management – leadership role, self-evaluation & positioning: 24.-26. Sep 2010, Germany  
 Project management and Teambuilding: 23.-25. April 2011, Speyer, Germany  
 Rhetoric and didactic training, 15-17 May 2012, Munich, Germany

## PRESS RELEASES

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"The most exciting planets for habitability yet." <a href="http://www.mpia.de/Public/menu_q2e.php?Aktuelles/PR/2013/PR_2013_05/PR_2013_05_en.html">http://www.mpia.de/Public/menu_q2e.php?Aktuelles/PR/2013/PR_2013_05/PR_2013_05_en.html</a>	April 13
"Heinz Maier-Leibnitz Prize, Awards to Honor Scientific Achievements of Six Early-Career Researchers" <a href="http://www.dfg.de/en/service/press/press_releases/2012/press_release_no_10/index.html">http://www.dfg.de/en/service/press/press_releases/2012/press_release_no_10/index.html</a>	May 12
"Can We Spot Volcanoes on Alien Worlds?" <a href="http://www.cfa.harvard.edu/news/2010/pr201014.html">http://www.cfa.harvard.edu/news/2010/pr201014.html</a>	Sep 10
"Avatar's moon Pandora could be real" <a href="http://www.cfa.harvard.edu/news/2009/pr200925.html">http://www.cfa.harvard.edu/news/2009/pr200925.html</a> ,	Dec 09
"Finding Twin Earths:Harder Than We Thought" <a href="http://www.cfa.harvard.edu/news/2009/pr200909.html">http://www.cfa.harvard.edu/news/2009/pr200909.html</a>	Mar 09
"3 Top Young CfA Astronomers Honored" <a href="http://www.cfa.harvard.edu/press/2007/pr200730.html">http://www.cfa.harvard.edu/press/2007/pr200730.html</a>	Nov 07
"Astronomers reveal first Alien ID chart" <a href="http://www.cfa.harvard.edu/press/2006/pr0625.html">http://www.cfa.harvard.edu/press/2006/pr0625.html</a>	Oct 06

## MEDIA COVERAGE

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NYT, CNN-I, USA Weekend, Washington Post, The Economist, Smithsonian Magazine, BBC, New Scientist, USA-Today, Christian Science Monitor, AP, National Geographics, NOVA, NPR, EI Mercurio, Focus, Spiegel, WDR, ZDF, Die Zeit, SZ, web-based sites, int. Daily newspapers

## LANGUAGES

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German: native    English,Spanish: fluent    Portuguese: good    Italian,Dutch: basic

## TEACHING

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### LECTURER AT HEIDELBERG UNIVERSITY (2010 - CURRENT), HARVARD UNIVERSITY (2008 - 2010)

Developed:

- High quality on-line calculation training lectures, that discuss the physical nature and evolution of stars and planets in our Milky Way Galaxy, and how observing stars in distant galaxies enables us to map the Universe.
- Set the material in context with current day event and culture.
- Interactive teaching concepts and experiments
- Weekly quizzes that probe the understanding of scientific concepts
- Midterm and Final exams that develop scientific thinking and understanding
- Innovative interactive telescope activities (daytime and evening sessions)

Graded quizzes, exams and lab reports

Gave feedback that develops the scientific thinking of non-science students further.

Provided support to students in a challenging practical environment of using telescopes.

Interacted with students on any problems and questions related to the course

### HEIDELBERG UNIVERSITY

#### ASTROPHYSICS & ASTROBIOLOGY II (100%)

FALL 2013

Physics Lecture (Master & graduate course level)

Scope: Lecture course focussed on interdisciplinary research – Life as a Planetary Phenomenon. This course explores in an interdisciplinary setting the concepts behind extrasolar planet search, characterisation and the search for life in the universe and extreme niches on Earth. It is focussed on interdisciplinary research between astrophysics, biolig and geology.

#### ASTROPHYSICS & ASTROBIOLOGY RESEARCH SEMINAR (33,50,100%) SPRING 2012, FALL 2012, FALL 2013

Physics Mandatory Seminar (co-teach with M. Hausmann (biophysics), M. Trieloff (geophysics))

Scope: Research seminar focussed on interdisciplinary research between astrophysics, biolig and geology. Students develop talks from discussions and literature search and lead discussion on topic.

#### IMPRS RESEARCH SEMINAR (50%) CO-CHAIR, CHAIR

FALL 2012, SPRING 2013, FALL 2013

Heidelberg Joint Colloquium weekly colloquium of the five Physics and Astronomy Institute in Heidelberg. Organizers (with C. Dullemond, we alternate Chair & co-Chair position each semester)

#### IMPRS RESEARCH SEMINAR (25%)

FALL 2012

IMPRS mandatory research seminar for freshmen (co-teach with C. Fendt, K. Meisenheimer)

Scope: Research seminar for first year PhD students in the international PhD program am MPG and University of Heidelberg, focussed on the most important research areas in astronomy.

#### INDEPENDENT ADVISORY COMMITTEE FOR ALL PHD STUDENTS AT MPIA (60%) FALL 2010 - CURRENT

Independent Advisory Committee of 5 senior researchers (committee: T. Herbst, W. Brandner, H. Klahr, C. Bailer-Johns, L. Kaltenegger) mandatory for all PhD students at MPIA to examine progress of PhD thesis and offer advise including carreeer advice (1x year/student (1.5hr), 50 PhD students)

### HARVARD UNIVERSITY

#### SCIENCE A-36 : OBSERVING THE SUN AND THE STARS (HARVARD) (50%)

FALL 2008, FALL 2009

Harvard Core Course and Laboratory Session (co-teach with J. Grindley)

Scope: Direct observations of the Sun and the stars, to learn how we can understand the Galaxy and the Universe from stars. In small sections, students conduct hands-on telescopic observations of the Sun and stars using modern instrumentation to explore their energy output, relative distances, temperatures, composition, and their life histories.

#### ASTRONOMY 1 THE ASTRONOMICAL UNIVERSE (CO-TEACH W. S. STEEL) (HARVARD) (50%) SPRING 2008

Scope: Introductory course for non-science concentrators, which provides a basic understanding of our Universe. Basic principles of physics & observational astronomy using elementary algebra.

**SCIENCE A-54. LIFE AS A PLANETARY PHENOMENON (2 CLASSES FOR SASSELOV) (HARVARD) SPRING 08**

Scope: This course focuses the relationship between life and the planet on which it resides and the scientific quest to understand where life might thrive beyond Earth.

**TEAM TUTOR:** Team Management and Group Leadership (100%) July 2009, 2007, 2005  
ESA/ASA Summerschool Alpbach (15 students, 2 week intense course)

Scope: 2 week intense design course for European science/engineering graduate and undergraduate students to provide new ideas & mission concepts for small satellites.

- Building the team, leading discussions
- Initiating brainstorming and new design concepts
- Teaching main design and science key points
- Organizing the final report and 1 hour presentation of the mission by all students
- Teaching students how to interact in an international, interdisciplinary environment

**ADVISOR (100%)**

Yan Betremieux (post-doc)	2011-current
Yamila Miguel (post-doc)	2011-current
Andras Zsom (post-doc, now MIT)	2010-2011
Taisiya Kopytova (graduate student Heidelberg) (Thesis co-chair)	2012-current
Sidharth Hegde (graduate student Heidelberg) (Thesis chair)	2011-current
Hiroyuki Kurokawa (graduate student Tokyo/Heidelberg) (Thesis co-chair)	2011-2012
Sarah Rugheimer (graduate student Harvard) (Thesis chair)	2008-current
Anna Penzlin (Bachelor thesis, Heidelberg)	2013
Mathias Samland (Bachelor thesis, Heidelberg)	2012
Maxence Levre (undergraduate summer project Univ. Paris)	2013
Yunfeng Zhe (undergraduate summer project Princeton)	2013
Wade Henning (undergrad student Harvard EPS)	2009-2010
Leah Kilvert (undergraduate Summer Project SAO)	2008

**VISITING PROFESSOR**

Valongo Winterschool, Rio, Brazil (4 x 1.5hr classes)	July 2013
Univ. Hamburg (graduate college) (6 x 1.5hr classes)	April 2012
SPASA summerschool, Sao Paulo, Brazil (4 x 1.5hr classes)	Dec 2011
IMPRS summerschool (Heidelberg) (4 x 1.5hr classes)	Aug 2011
Ecole Normale Supérieure de Lyon	Nov/Dec 2006

**CONFERENCE ORGANIZER****SCIENTIFIC ORGANIZING COMMITTEE**

From Disks to Exoplanets, Hawaii, USA	Dec 13
AGU From Earth to Exoplanets, Annapolis, USA	Jun 13
EGU Characterization of Exoplanets, Vienna, Austria	April 13
From Stars to Exoplanets conference, Munich, Germany	Sep 12
Exoplanet Atmosphere Characterization, MPA summer conference, Heidelberg, Germany	Jul 12
New Quests in Stellar Astrophysics. III. Puerto Vallarta-Mexico	Mar 12
Planets around Stellar remnants, Arecibo, PR	Jan 12
GMT workshop, Harvard, Boston	Oct 11
DPS, Nantes, France, Super-Earths and Life	Oct 11
AG session Exoplanets	Sep 11
EGU -Characterization of Exoplanets	April 11
EGU - Habitability and Characterization of Exoplanets	May 10
DPS (Division for Planetary Sciences) 2009, Puerto Rico, 4 exoplanet sessions	Oct 09

Curriculum Vitae	L. Kaltenegger
Goldschmidt - Dynamics of Early Earth-Like Planets and Super-Earths, Davos	July 09
Cosmic Cataclysms and life ESLAB 08, Frascati, Italy	Nov 08
Super Earth Workshop, Aspen, USA	Aug 08
Goldschmidt - Early Life, geochemical and dynamical aspects, Vancouver	July 08
AbSciCon 2008, Santa Clara, CA: Plenary Future Missions and what they can detect	April 08
AbSciCon 2008, Santa Clara, CA: Habitability on Super Earths	April 08
Physics and Astrophysics of Planetary Systems, Les Houches School, France	Aug 08
European Planetary Science Congress, Berlin: Biomarkers and their detectability	Sept 07
European Planetary Science Congress, Potsdam: Concepts of Habitability	Sept 06
LOC: "Transiting Planets", IAU Symposium 253, Cambridge, USA	May 08
Journal club: Harvard EPS and CfA Journal club (weekly interdisciplinary meeting)	07/08

## **INVITED SPEAKER**

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### **INVITED COLLOQUIA (SELF-LIMITED NUMBER OF COLLOQUIA PER YEAR)**

'Spectral evolution of an Earth-like planet, Search for signs of life, Super-Earths and Life'	
Penn State University, Penn State (A. Wolszczan)	Jan 14
University, Tuebingen (W. Kley)	Nov 13
University Wyoming (A. Meyers)	Oct 13
Institute for Space Research, Graz (W. Baumjohann)	June 13
Leiden University, Leiden (W.Brandel)	April 13
HITS, Heidelberg (V. Springel)	April 13
Durban Univeristy, South Africa (K. Moodley)	March 13
Cornell University (J. Lunine)	Jan 13
ESO (B. Leibundgut)	Dec 12
MPE, Garching (R. Bender)	Nov 12
LMU, Munich (B. Ercolani)	Aug 12
MPG for Chemistry Mainz (J. Lelieveld)	July 12
Universitaet Vienna (M. Guedel)	May 12
Paul Scherrer Institute (S. Actis)	May 12
MP for Radio Astronomy Bonn (U. Wyputta)	April 11
University of Bern (W. Benz)	March 11
UMass Amherst (R. Gutermost)	Jan 11
UNAM, Mexico (A. Segura)	Aug 10
Princeton (D. Spergel)	May 10
Univ. Vienna (E. Lohinger)	May 10
Univ. Montreal (R. Lamontagne)	April 10
College of Charleston, Conrad D. Festa Prize Lecture in Science & Mathematics	Feb 10
Wesleyan Univ. (S. Rethfield)	Nov 09
Univ. Texas Austin (N. Evans, prize lecture)	May 09
Dartmouth (B.Chabey)	Jan 09
Univ. Heidelberg (R. Klessen)	May 08
Univ. Colorado (F. Bagenal)	April 08
CfA (C. Alcock, Prize lecture)	Sept 07
Michelson Science Center, L.A. (G. van der Belle)	May 05
ESTEC (M. Fridlund)	Sept 04

### **INVITED SPEAKER AT INTERNATIONAL CONFERENCES (SELF-LIMITED NUMBER)**

Exo-Life, Vienna, Austria	May 12
EGU, Vienna, Austria	April 12
New Quests in Stellar Astrophysics. III. Puerto Vallarta-Mexico	Mar 12

Curriculum Vitae	L. Kaltenegger
Origins of Life, Gordon Conference, Texas, USA	Jan 12
Planets around stellar remnants, Puerto Rico, USA	Jan 12
AGU, San Francisco, USA	Dec 11
Hereaus Exoplanet Meeting, "Super-Earth and Life", Germany	June 11
IAUC280, Toledo, Spain "Characterizing a Habitable Planet – an interdisciplinary puzzle"	May 11
MIT exoplanet symposium "Exoplanet research in the next 50 years"	May 11
Flagstaff Extrasolar Planet meeting, USA "Observing Earth-like planets with JWST"	May 11
IAUS276, "Biomarkers in Exoplanet Atmospheres"	Oct 10
Royal Society Mtg, "SuperEarths and Life"	Sept 10
Megastructures, Crete "Exoplanet Research and Mega structures"	July 10
AbGradCon, "SuperEarths and Life"	June 10
EGU, Austria, "Characterizing Atmospheric Biomarkers"	May 10
ESF, Austria, "Biomarkers in planetary atmospheres"	April 10
KAVLI Institute, "Spectral characterization: SuperEarths to Earths"	April 10
Astrobio2010, Chile, "Spectral Characterization of exoplanet Atmospheres"	Jan 10
SOCHIAS, Chile, "Extrasolar planetary Atmospheres"	Jan 10
Naples, Italy, 21st Colloquium on High Res. Mol.Spectroscopy, "Spectral Evolution"	Aug 09
ESA/ASA summerschool 2009, Austria, "Atmospheric Biomarkers"	July 09
HSTcl Baltimore, USA, "Search for Habitability on exoplanets"	May 09
EGU, Vienna, "Spectral Evolution of Habitable Planets"	April 09
Exeter Univ. workshop, UK, "Modeling exoplanet atmospheres"	Sept 08
ESO Elba 2008, Italy, "Atmospheric Biomarkers and their detectability"	Sept 08
HITRAN conference, USA, "Detectability and Challenges on Atmospheric Biomarkers"	July 08
Nantes Super-Earth Conf., France, "Atmospheres of Super-Earths"	June 08
AbSciCon 2008, USA, "Habitability of Super Earths"	April 08
Les Houches Winter School: "Biomarkers on exoplanets"	Feb 08
Max Planck Symposium, Berlin: "Characterizing the Pale Blue Dot"	Feb 08
Darwin mtg, IAS, Paris: "Comparative planetology and the search for life"	Dec 07
European Planetary Science Congress, Berlin: "Biomarkers and their detectability"	Sept 07
Alpbach Summer School, Austria, "Signature of life on extrasolar planets"	July 07
ESO symposium, Santiago de Chile: "Exoplanet search, Biosignatures, and targets"	March 07
3 <sup>rd</sup> International TPF/Darwin Workshop, L.A.: "Evolution of Earth's atmosphere"	Nov 06
European Planetary Science Congress, Berlin: "Evolving Earth"	Sept 06
Pale Blue Dot III, Chicago: "Techniques and future observation of terrestrial planets"	Sept 06
ESOF2006, Munich: "Possible spectra signature of life in planetary atmosphere"	May 06
AbSciCon 2006, D.C.: "Future missions on extrasolar planets and what they can tell us"	March 06

### **INVITED DEPARTMENT SEMINARS**

2012 DLR Berlin, NYU; 2009 Princeton, Brown Univ., Univ. Oxford, MIT, Univ. Texas San Antonio Univ. Texas Austin; 2008 Open Univ, Univ. Oxford, CfA, ITC, Univ Heidelberg, Univ. Arizona; 2007 Univ. Bordeaux, Univ Vienna, Arizona State University, Museum of Natural History, Univ. of Colorado, Boulder, CalTech; 2006 Observatory Geneva, Observ de Paris, Meudon, ENS Lyon; 2006 Univ. de Paris Sur, Paris, Penn State Univ., CfA, OIR, Univ. of Vienna

### **SCHOOL MATERIAL - TEACHER WORKSHOP & ADVISER**

#### **CLASSES FOR STUDENTS (HIGHSCHOOL & K12)**

University for kids, Heidelberg (150 kids) – Searching for Aliens	May 12
Tschira student academy (30 kids)– Searching for Life in the universe	Nov 12, 13

#### **TEACHERS WORKSHOP (HIGHSCHOOL & K12)**

HdA Teachers workshop MPIA – Astronomy in the classroom	Dec 11, 12
CfA Teacher workshop - "Search for Planets and Life" for the classroom	April 10
MIT Teachers workshop – How to use astronomy in the classroom	Sept 05

**ADVISER FOR SCHOOL MATERIAL DEVELOPMENT (HIGHSCHOOL & K12)**

"Smithsonian in Your Classroom"	2010
"Universe" ( <a href="http://www.smithsonianeducation.org/universe">http://www.smithsonianeducation.org/universe</a> )	
SIYC is Smithsonian Education's free biannual publication for teachers. Each issue focuses on a single subject and includes a background article, lesson plans, and an activity to complete with your class and gives students a hands-on activity for putting the immensity of the universe in perspective. SIYC is a free publication and can be downloaded in its entirety from the link above.	
"Problem solving with Smithsonian experts"	July 10
<a href="http://www.smithsonianconference.org/expert/planets-like-ours/">http://www.smithsonianconference.org/expert/planets-like-ours/</a>	
Exoplanets and Beyond, CfA (bringing cutting-edge science into the K-12 classroom)	2008 - current
The Habitable Planet Project, Harvard (web-based initiative for the classroom)	2007 - current
Eye on the Sky, CfA education department, a dialogue with astronomers	2007
<a href="http://www.cfa.harvard.edu/sed/projects/eots.html">http://www.cfa.harvard.edu/sed/projects/eots.html</a>	

**SELECTED HIGHLIGHTS PUBLIC ENGAGEMENT**

<b>MEDIA AWARD:</b> Smithsonian Magazine Young Innovator 2007 Award	July 07
<b>SCIENTIFIC ADVISOR &amp; INTERVIEWS (TV, PLANETARY SHOWS &amp; PRESS)</b>	
WDR Quarks & Co Science Show, Science Talk Austria, Stoeckel Show	2013
Nano-science magazine for students, WQ knowledge show ZDF, Talk am Hangar 7, Servus TV	2012
Hubble TV show, Servus TV	2011
Planetarium Show "Search for other Worlds" Boston Museum of Science	Feb 11 – current
"Liquid Universe," The Universe, History Channel	2009
"Alien Earths," NOVA	2008
Science at Stake: Web-based initiative for journalists and general public	2006 – 2008
<b>ART &amp; SCIENCE LECTURES AND DISCUSSIONS</b>	
Ars Electronica Artist Lecture	July 12
New School (NYC, Art and Science), NYC	Dec 11
Bridge the Gap (Art&Science), NYC	Dec 09
<a href="http://storefrontnews.org/exhibitions_events/events?t=71">http://storefrontnews.org/exhibitions_events/events?t=71</a>	
<b>WEB-BASED INTERVIEWS &amp; TALKS &amp; OUTREACH</b>	
"Thousand Worlds in the Sky", Nautil.us, NYC	May 13
"Exoplanets and the fascination of science", HdA, Germany	March 12
"Problem solving with Smithsonian experts"	July 10
<a href="http://www.smithsonianconference.org/expert/planets-like-ours/">http://www.smithsonianconference.org/expert/planets-like-ours/</a>	
"Eye on the Sky: An Astronomy Dialog" (CfA web-based TV interview)	Feb 07
<a href="http://www.cfa.harvard.edu/sed/projects/eots.html">http://www.cfa.harvard.edu/sed/projects/eots.html</a>	
"Detecting Life Beyond Earth", PBS online Quiz	Sep 07
<a href="http://www.pbs.org/wgbh/nova/space/alien-life.html">http://www.pbs.org/wgbh/nova/space/alien-life.html</a>	
<b>BOOKS/ PUBLIC ARTICLES</b>	
Reading a Planets Spectral Fingerprint, Sky & Telescope (Germany)	Sep 2013
Worlds without End, Nautil.us Magazing, NYC	July 2013
Searching for a Second Earth, Spektrum der Wissenschaften	July 2013
Search for Extrasolar Planets, Physics Today (German)	Feb 12
Encyclopedia on Astrobiology (field editor on planetary science & author of 14 entries)	2011
Year Million (chapter on life among the stars)	2008
<b>PUBLIC LECTURES</b>	
Planetarium Klagenfurt, Austria "Search for exoplanets and Life in the universe"	Nov 13
Natural History Museum Salzburg, Austria "Search for exoplanets and Life in the universe"	Oct 13
Yuri's night Vienna, Search for a Second Earth	April 13
Mindt Student Academy	Oct 12

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Planetarium Muenster "Search for exoplanets and Life in the universe"	Oct 12
Keynote lecture NaWik Center for Science communication	Oct 12
Prize lecture Heinz Maier Leibnitz	May 12
German-American Platform, Heidelberg "How to find signs of life in the universe?"	May 12
Children's university 2012, "Den Alien auf der Spur" Heidelberg	April 12
Hous of Astronomy, Heidelberg "Life in the universe?"	July 11
Heidelberger star hour "How to find a habitable planet"	July 11
Heidelberger star hour "Searching for signs of life in a planet's spectra"	July 11
Renaissance Weekend, Aspen	Sep 10
"Problem solving with Smithsonian experts"	July 10
Public Lecture, UC Santa Cruz, USA "Exoplanets & Life"	April 10
South Carolina Annual Astronomers Meeting, USA "SuperEarths and Life"	March10
CEPSAR Christmas Lecture, Open University, UK "Finding Other Worlds"	Dec 08
Boston Amateur Astronomers, Boston, USA: "Searching for the Pale Blue Dot"	Oct 07
Skyscrapers Astro Society, USA "How to Find Fingerprints of Life on Exoplanets"	July 07
Willstone High School, 8th grade, lecture at star party	March07
CfA Observatory Night public lecture, Boston, USA: "Epochs of Life"	Nov 06

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## CONTACT INFORMATION

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Research Associate Harvard-Smithsonian Center for Astrophysics (CfA)

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