

CURRICULUM VITAE

Andreas Faisst | Caltech - Infrared Processing and Analysis Center | afaisst@caltech.edu

PERSONAL INFORMATION

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RESEARCH INTERESTS

- Physics during the Epoch of Reionization
- Early phases of galaxy formation and evolution
- Physical and structural properties of high-redshift galaxies
- Quenching of star formation in massive galaxies

MAIN LEADS AND INVOLVEMENTS

U.S. lead principal investigator of ALPINE (a 70-hour large ALMA program). Member of the IPAC Joint Pixel Processing and Tech Initiative. Science co-investigator and science operation center (SOC) scientist for ISCEA (a NASA small satellite mission). Part of the science and outreach team for CASTOR (a Canada-led space telescope).

REFERENCES

Dr. Peter Capak (Caltech/IPAC), capak@ipac.caltech.edu. More references are available upon request.

CAREER AND EDUCATION

Jan 2019 to present Assistant Research Scientist at Caltech/IPAC
Oct 2016 to Dec 2018 Postdoctoral Researcher at Caltech/IPAC
May 2015 to Oct 2016 SNSF Postdoctoral Fellow at Caltech (Visitor in Astronomy)
April 2015 Dr. Sc. ETH Zurich in Physics
 ETH Zurich, Switzerland
 Thesis: “*The Evolution of Star-forming and Quiescent Massive Galaxies through Cosmic Time*”
March 2011 M.Sc. in Physics
 ETH Zurich, Switzerland
 Thesis: “*Star-forming Galaxies at Redshifts $z \sim 2$ and $z \sim 4$* ”
September 2009 B.Sc. in Physics
 ETH Zurich, Switzerland

GRANTS, HONORS, AND AWARDS

April 2014 SNSF Early Postdoc Mobility Fellowship
March 2012 ETH Medal for outstanding Master thesis
March 2011 M.Sc. in Physics *Cum Laude* at ETH Zurich

PROFESSIONAL SKILLS

- Analysis of imaging & spectroscopic data in optical, infrared, and sub-millimeter
- Analytical models/predictions for large data sets
- (Big) Data processing and visualization
- Database management (Hadoop, SQL, SQLite)
- Machine Learning techniques
- Public outreach, science writing, and science communication/education
- CG art, video, graphics and webpage design

OTHER SKILLS

Languages German (native), English (fluent), French (good), Italian (basics)

Programming R, Python, Matlab, IDL, C++, Perl

Web-based PHP, HTML, JavaScript, CSS

Webpages (references) <http://splash.caltech.edu>
<http://www.astro.caltech.edu/~afaisst>
<http://www.gerbermedia.ch>
<http://www.raineroberhaensli.ch>
<http://www.sternwarte-uitikon.ch>

Others I am co-founder of the IPAC Visualization group (IViz), a think-tank for advanced data visualization in science, for public and outreach.

OBSERVING EXPERIENCE AND SELECTED PROPOSALS

I have contributed to or lead several observations in the past:

- Keck I, Hawaii, 2012 – 2018: 22.5 nights on MOSFIRE (NIR spectrograph)
- Keck II, Hawaii, 2011 – 2016: 8 nights on DEIMOS (optical spectrograph)

I led the following selection of **accepted proposals as Principal-Investigator (PI)**:

- 2019, ALMA, Cycle 7* Unraveling the complex ISM of $z=4.5$ galaxies: With the largest sample of [NII]205+[CII]158 detected galaxies (28.4 hours, Proposal ID #2019.1.00535.S, **PI: Faisst**)
- 2019, HST, Cycle 26M* HST imaging for an immediate study of the ISM in $z=4.5$ galaxies (6 orbits, WFC3/IR, Proposal ID #15692, **PI: Faisst**)
- 2018, ALMA, Cycle 6* Are high-redshift Galaxies hot? Constraining the temperatures of $z\sim 5.5$ galaxies (resubmission, 11.1 hours, Proposal ID #2018.1.00348.S, **PI: Faisst**)
- 2018, Keck 2018B* [OIII] Emitters in the Epoch of Reionization: Clues to Early Galaxy Formation (1.5 nights, MOSFIRE, Proposal ID #20/2018B_N144, **PI: Faisst**)
- 2017, ALMA, Cycle 5* *ALPINE*: The ALMA Large Program to INvestigate C⁺ at Early times (69.3 hours, Proposal ID #2017.1.00428.L, **North America PI: Faisst**)
- 2017, ALMA, Cycle 5* Are high-redshift Galaxies hot? Constraining the temperatures of $z\sim 5.5$ galaxies (11.1 hours, Proposal ID #2017.1.00479.S, **PI: Faisst**)

I contributed significantly to the following selection of **accepted proposals as Co-Investigator (CoI)**:

- 2019, Keck, 2020A* *Direct spectroscopic confirmation of $z>\sim 4$ quiescent galaxies* (1 night, MOSFIRE, Proposal ID # S20A0037N, PI: Tanaka)
- 2019, Keck, 2020A* *Understanding Reionizing Source with Newly-Identified IRAC Excess Galaxy* (1 night, MOSFIRE, Proposal ID # S20A0085N, PI: Harikane)
- 2019, Keck, 2020A* *MOSFIRE Observations of ALMA Dust Continuum Sources (Caltech) and Black Hole Growth (Yale)* (4 nights, MOSFIRE, Proposal ID #XXX, PI: Scoville)
- 2019, ALMA, Cycle 7* *A kpc-scale view to the dust and gas content of typical star forming ALPINE galaxies at $z\sim 4.6$* (30 hours, Proposal ID #2019.1.00226.S, PI: Ibar)
- 2019, ALMA, Cycle 7* *Into the Heart of Darkness: Imaging a "Maximum Starburst" Nucleus at 75pc Resolution in the First Billion Years* (5 hours, Proposal ID #2019.1.00212.S, PI: Riechers)
- 2019, ALMA, Cycle 7* *Evolution of ISM Masses in the First 2 Gyr at $z = 3 - 6$* (5.6 hours, Proposal ID # 2019.1.00459.S, PI: Scoville)

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| 2019, HST Cycle 27 | <i>He II Emission from Wolf-Rayet Stars: a New Dust Attenuation Measure in Star-forming Galaxies</i> (14 orbits, STIS, Proposal ID #15846, PI: Leitherer) |
| 2019, HST Cycle 27 | <i>Understanding an Extreme QSO: The Curious Case of SDSS 0956+5128</i> (3 orbits, ACS/WFC, Proposal ID # 15872, PI: Steinhardt) |
| 2019, Keck, 2019B | <i>Understanding Reionizing Source with Newly-Identified IRAC Excess Galaxy III</i> (2 nights, MOSFIRE, Proposal ID # S19B0003N, PI: Harikane) |
| 2018, Keck, 2019A | <i>Understanding Reionizing Source with Newly-Identified IRAC Excess Galaxy II</i> (2 nights MOSFIRE, Proposal ID #S19A0037N, PI: Harikane) |
| 2018, ALMA, Cycle 6 | <i>Into the Heart of Darkness: Imaging a "Maximum Starburst" Nucleus at ~95pc Resolution in the First Billion Years</i> (4 hours, Proposal ID# 2018.1.00222.S, PI: Riechers) |
| 2018, Magellan | <i>Follow up of [OII] emission in ALPINE galaxies</i> (2 nights, Magellan/FIRE, PI: Mendez) |
| 2017, Subaru 2018A | <i>Hawaii Two-0: Subaru Hyper Suprime-Cam (HSC) imaging and Keck LRIS+MOSFIRE spectroscopy on 20deg²</i> (30 hours HSC, 5 nights LRIS, 5 nights MOSFIRE, PI: Sanders) |
| 2018, Keck 2018B | <i>MOSFIRE Observations of ALMA Dust Continuum Source and Black Hole Growth</i> (3 nights, MOSFIRE, Proposal ID #2018B_C236, PI: Scoville) |
| 2017, HST Cycle 25 | <i>Beyond Ultra-deep Frontier Fields and Legacy Observations (BUFFALO)</i> (101 orbits, Proposal ID #15117, PI: Steinhardt) |
| 2017, Keck 2017B | <i>Direct Spectroscopic Confirmation of $z > 4$ Quiescent Galaxies</i> (1 night, MOSFIRE, Proposal ID #S17B-106, PI: Tanaka) |
| 2016, SST Cycle 13 | <i>The Euclid/WFIRST Spitzer Legacy Survey</i> (5286 hours, Spitzer/IRAC, Proposal ID #13058, PI: Capak) |
| 2016, HST Cycle 24 | <i>The Fundamental Plane of Ultra-Massive Galaxies at $z \sim 2$</i> (11 orbits, Proposal ID #14721, PI: Conselice) |
| 2015, Keck 2016A | <i>DEIMOS Spectroscopy of Ultra-Diffuse Galaxies in the Coma Cluster</i> (4 nights, DEIMOS, Proposal ID #2016A_C270D, PI: Koda) |
| 2013, SST Cycle 10 | <i>SPLASH: Spitzer Large Area Survey with Hyper Suprime-Cam</i> (1650 hours, Spitzer/IRAC Proposal ID #10042, PI: Capak) |
| 2011, HST Cycle 19 | <i>Constraints on the Mass Assembly and Early Evolution of $z \sim 2$ Galaxies: Witnessing the Growth of Bulges and Disks</i> (55 orbits, Proposal ID #12578, PI: Förster-Schreiber) |

TEACHING EXPERIENCE AND STUDENT SUPERVISION

Amongst co-mentoring many other students:

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| Fall 2019 | Summer graduate student Thomas Venville (Swinburne University) Topic: <i>Identifying transient and variable sources with machine learning</i> |
| Summer 2019 | FIELDS student: Ishita Korde (University California Riverside) Topic: <i>Spectroscopic measurements for COSMOS galaxies</i> |
| Spring 2018 | Graduate summer project: Rebecca Larson (U. Texas) Topic: <i>Redshifts Derivation from Galaxy Clustering</i> |
| Spring 2016 | Under-graduate thesis project: Catalina Miritescu (Caltech) Topic: <i>The Escape Fraction of UV Photons in Strong Line Galaxies</i> |
| 2015 – 2017 | Under-graduate thesis project: Ivana Barisic (Caltech) Topic: <i>Dust Properties of $z \sim 6$ Galaxies with ALMA and HST</i> (Now graduate student at MPA Heidelberg) |
| Spring 2015 | Astrophysics II (Prof. M. Carollo), ETH Zurich |

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| Fall 2014 | Physics I (Prof. S. Lilly), ETH Zurich |
| Spring 2014 | Astrophysics II (Prof. M. Carollo), ETH Zurich |
| Spring 2013 | Astrophysics II (Prof. M. Carollo), ETH Zurich |
| Fall 2012 | Physics I (Prof. M. Carollo), ETH Zurich |
| Fall 2012 & 2013 | Astronomy Week (advanced bachelor lab), ETH Zurich |
| Spring 2011 | Semester project: S. Tacchella (ETH Zurich) Topic: <i>SED fitting constraints from IRAC near-IR observations</i> (Now postdoc at Harvard) |

(INVITED) SEMINARS AND COLLOQUIA

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| February 2019 | Tea talk at the DAWN center (Copenhagen, Denmark) Invited Talk: <i>Galaxies in the Early Universe: In the view of newest observations with Spitzer, ALMA, and HST</i> |
| February 2019 | Rochester Institute of Technology (Rochester NY, USA) Invited Talk: <i>Galaxies in the Early Universe: The view from the newest observations with Spitzer, ALMA, and HST</i> |
| December 2018 | Harvard-Smithsonian Center for Astrophysics (Cambridge, MA, USA) Invited Talk: <i>Galaxies in the Early Universe: The view from the newest observations with Spitzer, ALMA, and HST</i> |
| September 2018 | Saint Mary's University: astronomy colloquium (Halifax, NS, Canada) Invited Talk: <i>Galaxies in the Early Universe: The view from the newest observations with Spitzer, ALMA, and HST</i> |
| November 2017 | University of British Columbia: astronomy colloquium (Vancouver, BC, Canada) Talk: <i>Galaxies in the Early Universe: The view from the newest observations with Spitzer, ALMA, and HST</i> |
| November 2017 | UC Berkeley: Astro lunch talk (Berkeley, CA, USA) Talk: <i>Galaxies in the Early Universe: The view from the newest observations with Spitzer, ALMA, and HST</i> |
| October 2017 | Institute for Astronomy Hawaii: astronomy colloquium (Honolulu, HI, USA) Talk: <i>Galaxies in the Early Universe: The view from the newest observations with Spitzer, ALMA, and HST</i> |
| October 2017 | UC Santa Barbara: astronomy lunch talk (Santa Barbara, CA, USA) Talk: <i>Galaxies in the early Universe: In the view of the newest observations with Spitzer, ALMA, and HST</i> |
| October 2017 | Cornell University: Galaxy lunch seminar (Ithaca, NY, USA) Talk: <i>Galaxies in the early Universe: In the view of the newest observations with Spitzer, ALMA, and HST</i> |
| October 2017 | UC Riverside: Lunch seminar (Riverside, CA, USA) Talk: <i>Galaxies in the early Universe: In the view of the newest observations with Spitzer, ALMA, and HST</i> |
| September 2017 | UCLA: Lunch journal club (Los Angeles, CA, USA) Talk: <i>Galaxies in the early Universe: In the view of the newest observations with Spitzer, ALMA, and HST</i> |
| September 2017 | Carnegie Observatories: Lunch talk (Pasadena, CA, USA) Talk: <i>Galaxies in the early Universe: In the view of the newest observations with Spitzer, ALMA, and HST</i> |
| February 2017 | Caltech/IPAC lunch talk (Pasadena, CA, USA) Talk: <i>Insights into the high-redshift Universe using Spitzer and Local Galaxies</i> |
| August 2016 | ETH Zurich: Lunch seminar talk (Zurich, Switzerland) Invited Talk: <i>Insights into the High-Redshift Universe using Spitzer and Local Galaxies</i> |
| June 2016 | Telescope Science Institute and Johns Hopkins University: lunch seminar |

(Baltimore, MD, USA)

May 2016 Talk: *Insights into the High-Redshift Universe using Spitzer and Local Galaxies*
UC Davis: Cosmology seminar (Davis, CA, USA)

Invited Talk: *Insights into the High-Redshift Universe from Spitzer and Local Galaxies*

May 2016 Pasadena postdoc retreat (Lake Arrowhead, CA, USA)

Talk: *Emission line Properties of high-z Galaxies*

October 2016 University of Minnesota: Astrophysics colloquium (Minneapolis, MN, USA)

Invited Talk: *Insights into the High-Redshift Universe using Spitzer and Local Galaxies*

September 2016 Laboratoire d'Astrophysique de Marseille Marseille: Astronomy seminar (Marseille, France)

Invited Talk: *Insights into the High-Redshift Universe using Spitzer and Local Galaxies*

September 2016 Geneva Observatory: Astronomy seminar (Geneva, Switzerland)

Talk: *Insights into the High-Redshift Universe using Spitzer and Local Galaxies*

CONFERENCE TALKS

- November 2019 Keck Science Meeting 2019 at UCLA (Los Angeles, USA)
Talk: *10,000 Keck spectra to study galaxy evolution across 7 billion years of cosmic time*
- August 2019 From AGN to Starburst: A Multi-wavelength Synergy (Guiyang, China)
Talk: *Insights into the ISM conditions of infant galaxies*
- July 2019 The 2019 Greater IPAC Science Symposium (Pasadena, CA, USA)
Talk: *Insights into the ISM of infant galaxies with Spitzer and ALMA*
- November 2018 IAU Symposium 341: PanModel2018 – Challenges in Panchromatic Galaxy Modeling with Next Generation Facilities (Osaka, Japan)
Talk: *ALPINE: The large ALMA Program to Study the Interstellar Medium of High Redshift Galaxies*
- June 2018 The 2018 Greater IPAC Science Symposium (Pasadena, CA, USA)
Talk: *Go ALPINE! Interstellar medium properties of high redshift galaxies*
- April 2018 Simulated Skies for new-generation Spectroscopic Surveys (Madrid, Spain)
Talk: *Empirical Modeling of the Redshift Evolution of the [NII]/H α ratio for Galaxy Redshift Surveys and Simulations*
- May 2017 Hyper Suprime-Cam Collaboration Meeting (Sendai, Japan)
Talk: *Studying optical Emission Lines in $z > 4$ Galaxies with SPLASH*
- May 2017 The 2017 Greater IPAC Science Symposium (Pasadena, CA, USA)
Talk: *Galaxies at $z = 6$: Hot and Turbulent*
- September 2016 Mapping the Pathways of Galaxy Transformation Across Time and Space (Avalon - Catalina Island, CA, USA)
Talk: *How to quench massive galaxies*
- March 2016 The 2016 Greater IPAC Science Symposium (Pasadena, CA, USA)
Talk: *Emission Lines in High Redshift Galaxies as Probed by Spitzer*
- March 2016 Aspen Winter Conference – The Reionization Epoch: New Insights and Future Prospects (Aspen, CO, USA)
Talk: *Emission Lines from Broad Bands: $sSFR$ and [OIII]/H β ratio at $3 < z < 6$*
- January 2016 227th Meeting of the American Astronomical Society (Kissimmee, FL, USA)
Talk: *Rest-UV absorption lines as Metallicity Estimator: The Metal Content of Star-forming Galaxies at $z \sim 5$*
- August 2014 Lyman Continuum Leakage and Cosmic Reionization (Stockholm, Sweden)
Talk: *Constraints on re-ionization at $z \sim 8$ using Ly α emitters*

COLLABORATIVE MEETINGS AND WORKSHOPS

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| October 2019 | Lorentz Workshop (Invited): Revolutionary Spectroscopy of Today as a Springboard to the James Webb Space Telescope (Leiden, Netherlands) |
| May 2019 | ALPINE Team Meeting (Bologna, Italy, co-organizer) |
| | Lead ancillary data group |
| May 2019 | COSMOS Team Meeting (New York, USA) |
| | Talk 1: <i>Update on ALPINE</i> |
| | Talk 2: <i>Insights into the ISM of Early Galaxies</i> |
| October 2018 | BUFFALO Team Meeting (Marseille, France) |
| | Talk: <i>Study Galaxy Growth in the Early Universe with Spitzer and ALMA</i> |
| October 2018 | ALPINE Team Meeting (Marseille, France) |
| June 2018 | COSMOS Team Meeting (Copenhagen, Denmark) |
| | Talk: <i>Go ALPINE! Interstellar Medium Properties of High Redshift Galaxies</i> |
| July 2017 | COSMOS Team Meeting (Kyoto, Japan) |
| | Talk: <i>Galaxies at $z = 6$: Hot and turbulent?</i> |
| June 2016 | COSMOS Team Meeting (Baltimore, MD, USA) |
| | Talk: <i>Studying the First Galaxies with Spitzer and the Help of Locals</i> |
| June 2015 | COSMOS Team Meeting (Helsinki, Finland) |
| | Talk: <i>Quenching of Massive Galaxies</i> |
| May 2015 | COSMOS Team Meeting (Zagreb, Croatia) |
| | Talk: <i>Structure of high mass galaxies at $z \sim 2$ in UltraVISTA</i> |
| May 2013 | COSMOS Team Meeting (Kyoto, Japan) |
| | Talk: <i>Spectroscopic follow-up of $z \sim 7.7$ Lyα emitters in COSMOS</i> |
| June 2011 | COSMOS Team Meeting (Zurich, Switzerland) |
| | Talk: <i>The galaxy population in $z \sim 2$ proto-groups</i> |
| May 2011 | zCOSMOS Team Meeting (Zurich, Switzerland) |
| | Talk: <i>Update on zCOSMOS-deep sample</i> |

CONFERENCE POSTERS

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| September 2018 | Keck Science Meeting (Pasadena, CA, USA) |
| | Poster: <i>Keck + ALMA = ALPINE; A Synergy to Pioneer the Study of the First Galaxies</i> |
| November 2017 | The Origin of Galaxies, Stars and Planets in the Era of ALMA (Pasadena, CA, USA) |
| | Poster 1: <i>Dust in the Early Universe – A study of dust properties of $z \sim 6$ Galaxies</i> |
| | Poster 2: <i>ALPINE: A 70h ALMA program to Study Galaxy Growth at $4 < z < 6$</i> |
| March 2016 | WFIRST Science Conference (Pasadena, CA, USA) |
| | Poster: <i>Emission Line Properties of $z > 3$ Galaxies: Synergy of Spitzer and WFIRST</i> |

PROFESSIONAL ACTIVITIES AND SERVICES

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| January 2020 | Organizer of the Machine Learning workshop at the AAS #235 in Honolulu, Hawaii |
| August 2019 to present | Member of the IPAC Visiting Graduate Student Fellowship committee |
| September 2018 to 2019 | Member of the Caltech Astronomy Colloquium committee |
| December 2017 to present | Science advisor and consultant for <i>The Science and Entertainment Exchange: A</i> program of the National Academy of Science that connects entertainment industry professionals with top scientists and engineers to create a synergy between accurate science and engaging storylines in both film and TV programming. |
| December 2017 to present | Reviewer for the <i>NASA Earth and Space Science Fellowship (NESSF)</i> and the <i>Future Investigators in NASA Earth and Space Science and Technology (FINESST)</i> programs. These fellowships are \$45k awards to supplement graduate student's |

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| | stipend for a period of up to three years. |
| December 2017 | LOC member of the <i>JWST Proposal Planning Workshop</i> Pasadena, CA, USA |
| August 2017 to present | Co-founder and organizer of the IPAC Visualization group (IViz), a think-tank for advanced data visualization in science, for public and scientific outreach. |
| November 2016 to present | Co-organizer of weekly Astro-ph journal club at Caltech |
| November 2016 to present | Lead of Pasadena Astro Postdoc Mixer at Caltech/IPAC Pasadena, CA, USA <i>Acquisition of funding and organization. Science meeting for all postdoctoral researchers in astronomy related fields in Pasadena (including Caltech Astronomy, Carnegie, JPL).</i> |
| October 2015 to present | Telescope observing proposal referee for the Canadian Time Allocation Committee (CanTAC) |
| October 2015 to present | Reviewer for “The Monthly Notices of the Royal Astronomical Society” (MNRAS) and “The Astrophysical Journal” (ApJ) |

OUTREACH AND SCIENCE COMMUNICATION ACTIVITIES

These are my main outreach events that I have participated in or led, amongst other smaller ones not listed here.

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| 2016 – present | Contributions to Astronomy on Tap Los Angeles (Pasadena, CA, USA) Talk (September 2016): <i>All started with a Big Bang</i> |
| 2016 – present | Contributions to Lecture Series & Stargazing at Caltech (Pasadena, CA, USA) Talk (September 2017): <i>Where to find real Time Machines and how to use them</i> |
| 2016 – present | Member of the Los Angeles Astronomical Society (LAAS) |
| September 2019 | Organizer of Caltech/Astro outreach event for SSGA/Merill at Caltech (Pasadena, CA, USA). |
| May 2019 | Speaker at Astronomy on Tap New York City (Manhattan, NY, USA) |
| October 2018 | Hosting of the movie “Into the Unknown” about the James Webb Space Telescope and talk “How to Study the First Galaxies with JWST” (City of Commerce, CA, USA) |
| June 2018 | Organization of first Astronomy On Tap in Copenhagen, Denmark Talk: <i>The Big Bang and the Birth of Galaxies</i> |
| June 2018 | Public talk at the Griffith Observatory for the Friends of the Observatory (FOTO) (Los Angeles, CA, USA) Talk: <i>The Life of Galaxies: From turbulent Birth to (a silent) Death</i> |
| January 2018 | Science Night at the Arroyo Vista Elementary School: Infrared camera demonstration (South Pasadena, CA, USA) |
| November 2017 | “Exploring your Universe” event at UCLA (Los Angeles, CA, USA) Lead of Caltech/IPAC booth (infrared camera and TRAPPIST-1 VR headset) |
| October 2016 | Pasadena Astronomy Week: Stargazing, Booth of the Infrared Processing and Analysis Center (Pasadena, CA, USA) |
| July 2016 | Public talk at the Griffith Observatory for the Los Angeles Astronomical Society (Los Angeles, CA, USA) Talk: <i>The Life of Galaxies: From turbulent Birth to (a silent) Death</i> |
| June 2016 | Speaker at Astronomy on Tap Baltimore (Baltimore, MD, USA) Talk: <i>The Big Bang and the Birth of Galaxies</i> |
| March 2016 | Greenway Talk Series at the Palomar Observatory (Palomar Mountain, CA, USA) Talk: <i>The High Redshift Universe: How we find and characterize the First Galaxies in our Universe</i> |
| 2013 – 2015 | Board member of AMP (Association of non-faculty scientific staff of the physics department) at ETH Zurich (Zurich, Switzerland) |

- 2009 – 2015* Guide at the Urania Observatory (Zurich, Switzerland)
- 2009 – 2015* Board member of the Zurich Astronomy Association (AGUZ) and member of the Swiss Astronomical Association (SAG). Specialized in outreach and event management and organization.
- 2005 – 2015* Guide at the Uitikon/Waldegg Observatory (Zurich, Switzerland)