# CURRICULUM VITAE

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

## PERSONAL INFORMATION


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| *Name* | Andreas Faisst |
| *Citizenship* | Switzerland |
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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). Co-lead of the IPAC Joint Pixel Processing (JSP) and Tech Initiative. Member of the science steering committee of the COSMOS survey. Co-investigator of the SPLASH and BUFFALO surveys. Science and pipeline team member of SPHEREx (accepted 0.2m infrared telescope to be launched in 2024). Science co-investigator and science operation center (SOC) scientist for ISCEA (a NASA small satellite mission) and ATLAS (concept for a 1.5m infrared telescope for near-infrared spectroscopy). Science team member of CASTOR (a Canada-led UV space telescope).

## REFERENCES

References are available upon request.

## CAREER AND EDUCATION

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| *Jan 2019 to present* | 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<br>Thesis: "*The Evolution of Star-forming and Quiescent Massive Galaxies through Cosmic Time"* |
| *March 2011* | M.Sc. in Physics at ETH Zurich<br>Thesis: *"Star-forming Galaxies at Redshifts z~2 and z~4"* |
| *September 2009* | B.Sc. in Physics at ETH Zurich |

## GRANTS, HONORS, AND AWARDS

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| *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 (Technical) 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, teaching, science writing, and science communication/education
- CG art, video, graphics and webpage design

## Other Skills

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| *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<br>http://www.astro.caltech.edu/~afaisst<br>http://www.gerbermedia.ch<br>http://www.raineroberhaensli.ch<br>http://www.sternwarte-uitikon.ch<br>http://alpine.ipac.caltech.edu |
| *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 **accepted proposals as Principal-Investigator (PI)**:

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| *2021, JWST, Cycle 1* | *Beasts in the Bubbles: Characterizing ultra-luminous galaxies at Cosmic Dawn*<br>(13.8 hours, Proposal ID #2659, **North America co-PI: Faisst**) |
| *2019, ALMA, Cycle 7* | *Unraveling the complex ISM of z=4.5 galaxies: With the largest sample of [NII]205+[CII]158 detected galaxies*<br>(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*<br>(6 orbits, WFC3/IR, Proposal ID #15692, **PI: Faisst**) |
| *2018, ALMA, Cycle 6* | *Are high-redshift Galaxies hot? Constraining the temperatures of z~5.5 galaxies*<br>(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*<br>(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*<br>(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~5.5 galaxies*<br>(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)**:

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| *2021, JWST, Cycle 1* | *COSMOS-Webb: The Webb Cosmic Origins Survey*<br>(207.8 hours, Proposal ID #1727, PI: Kartaltepe) |
| *2021, JWST, Cycle 1* | *Physical Characterization of a Massive Galaxy Protocluster ~1 Billion Years after the Big Bang*<br>(11 hours, Proposal ID #2417, PI: Riechers) |

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| *2021, JWST, Cycle 1* | *Galaxy Protoclusters as Drivers of Cosmic Reionization*<br>(35.2 hours, Proposal ID #1635, PI: Martin) |
| *2019, Keck, 2020A* | *Direct spectroscopic confirmation of z>~4 quiescent galaxies*<br>(1 night, MOSFIRE, Proposal ID # S20A0037N, PI: Tanaka) |
| *2019, Keck, 2020A* | *Understanding Reionizing Source with Newly-Identified IRAC Excess Galaxy*<br>(1 night, MOSFIRE, Proposal ID # S20A0085N, PI: Harikane) |
| *2019, Keck, 2020A* | *MOSFIRE Observations of ALMA Dust Continuum Sources (Caltech) and Black Hole Growth (Yale)*<br>(4 nights, MOSFIRE, PI: Scoville) |
| *2019, ALMA, Cycle 7* | *A kpc-scale view to the dust and gas content of typical star forming ALPINE galaxies at z~4.6*<br>(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*<br>(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*<br>(5.6 hours, Proposal ID # 2019.1.00459.S, PI: Scoville) |
| *2019, HST Cycle 27* | *He II Emission from Wolf-Rayet Stars: a New Dust Attenuation Measure in Star-forming Galaxies*<br>(14 orbits, STIS, Proposal ID #15846, PI: Leitherer) |
| *2019, HST Cycle 27* | *Understanding an Extreme QSO: The Curious Case of SDSS 0956+5128*<br>(3 orbits, ACS/WFC, Proposal ID # 15872, PI: Steinhardt) |
| *2019, Keck, 2019B* | *Understanding Reionizing Source with Newly-Identified IRAC Excess Galaxy III*<br>(2 nights, MOSFIRE, Proposal ID # S19B0003N, PI: Harikane) |
| *2018, Keck, 2019A* | *Understanding Reionizing Source with Newly-Identified IRAC Excess Galaxy II*<br>(2 nights MOSFIRE, Proposal ID #S19A0037N, PI: Harikane) |
| *2018, ALMA, Cycle 6* | *Into the Heart of Darkness: Imaging a "Maximum Starburst" Nucleus at ~95pc Resolution in the First Billion Years*<br>(4 hours, Proposal ID# 2018.1.00222.S, PI: Riechers) |
| *2018, Magellan* | *Follow up of [OII] emission in ALPINE galaxies*<br>(2 nights, Magellan/FIRE, PI: Mendez) |
| *2017, Subaru 2018A* | *Hawaii Two-0: Subaru Hyper Suprime-Cam (HSC) imaging and Keck LRIS+MOSFIRE spectroscopy on 20deg$^2$*<br>(30 hours HSC, 5 nights LRIS, 5 nights MOSFIRE, PI: Sanders) |
| *2018, Keck 2018B* | *MOSFIRE Observations of ALMA Dust Continuum Source and Black Hole Growth*<br>(3 nights, MOSFIRE, Proposal ID #2018B_C236, PI: Scoville) |
| *2017, HST Cycle 25* | *Beyond Ultra-deep Frontier Fields and Legacy Observations (BUFFALO)*<br>(101 orbits, Proposal ID #15117, PI: Steinhardt) |
| *2017, Keck 2017B* | *Direct Spectroscopic Confirmation of z>4 Quiescent Galaxies*<br>(1 night, MOSFIRE, Proposal ID #S17B-106, PI: Tanaka) |
| *2016, SST Cycle 13* | *The Euclid/WFIRST Spitzer Legacy Survey*<br>(5286 hours, Spitzer/IRAC, Proposal ID #13058, PI: Capak) |
| *2016, HST Cycle 24* | *The Fundamental Plane of Ultra-Massive Galaxies at z ~ 2*<br>(11 orbits, Proposal ID #14721, PI: Conselice) |
| *2015, Keck 2016A* | *DEIMOS Spectroscopy of Ultra-Diffuse Galaxies in the Coma Cluster*<br>(4 nights, DEIMOS, Proposal ID #2016A_C270D, PI: Koda) |

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| *2013, SST Cycle 10* | *SPLASH: Spitzer Large Area Survey with Hyper Suprime-Cam*<br>(1650 hours, Spitzer/IRAC Proposal ID #10042, PI: Capak) |
| *2011, HST Cycle 19* | *Constraints on the Mass Assembly and Early Evolution of z ~ 2 Galaxies: Witnessing the Growth of Bulges and Disks*<br>(55 orbits, Proposal ID #12578, PI: Förster-Schreiber) |

## Teaching Experience and Student Supervision

Amongst co-mentoring many other students:

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| *Spring/Summer 2020* | Graduate student Brittany Vanderhoof (Rochester Institute of Technology)<br>Topic: *The first optical [OII] and far-IR $C^+$ analysis of the ISM conditions of a galaxy at z~4.58* (to be submitted in early 2021) |
| *Fall 2019* | Summer graduate student Thomas Venville (Swinburne University)<br>Topic: *Identifying transient and variable sources with machine learning* |
| *Summer 2019* | FIELDS student: Ishita Korde (University California Riverside)<br>Topic: *Spectroscopic measurements for COSMOS galaxies* |
| *Spring 2018* | Graduate summer project: Rebecca Larson (U. Texas)<br>Topic: *Redshifts Derivation from Galaxy Clustering* |
| *Spring 2016* | Under-graduate thesis project: Catalina Miritescu (Caltech)<br>Topic: *The Escape Fraction of UV Photons in Strong Line Galaxies* |
| *2015 – 2017* | Under-graduate thesis project: Ivana Barisic (Caltech)<br>Topic: *Dust Properties of z ~ 6 Galaxies with ALMA and HST*<br>(Now graduate student at MPIA Heidelberg) |
| *Spring 2015* | Astrophysics II (Prof. M. Carollo), ETH Zurich |
| *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)<br>Topic: *SED fitting constraints from IRAC near-IR observations*<br>(Now postdoc at Harvard) |

## (Invited) Seminars and Colloquia

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| *February 2020* | Caltech Tea Talk (Pasadena, USA)<br>**Invited Talk:** *Star formation and Dust in the Early Universe* |
| *February 2019* | Tea talk at the DAWN center (Copenhagen, Denmark)<br>**Invited Talk**: *Galaxies in the Early Universe: In the view of newest observations with Spitzer, ALMA, and HST* |
| *February 2019* | Rochester Institute of Technology (Rochester NY, USA)<br>**Invited Talk**: *Galaxies in the Early Universe: The view from the newest observations with Spitzer, ALMA, and HST* |
| *December 2018* | Harvard-Smithsonian Center for Astrophysics (Cambridge, MA, USA)<br>**Invited Talk**: *Galaxies in the Early Universe: The view from the newest observations with Spitzer, ALMA, and HST* |
| *September 2018* | Saint Mary's University: astronomy colloquium (Halifax, NS, Canada)<br>**Invited Talk**: *Galaxies in the Early Universe: The view from the newest observations with Spitzer, ALMA, and HST* |

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| *November 2017* | University of British Columbia: astronomy colloquium (Vancouver, BC, Canada)<br>Talk: *Galaxies in the Early Universe: The view from the newest observations with Spitzer, ALMA, and HST* |
| *November 2017* | UC Berkeley: Astro lunch talk (Berkeley, CA, USA)<br>Talk: *Galaxies in the Early Universe: The view from the newest observations with Spitzer, ALMA, and HST* |
| *October 2017* | Institute for Astronomy Hawaii: astronomy colloquium (Honolulu, HI, USA)<br>Talk: *Galaxies in the Early Universe: The view from the newest observations with Spitzer, ALMA, and HST* |
| *October 2017* | UC Santa Barbara: astronomy lunch talk (Santa Barbara, CA, USA)<br>Talk: *Galaxies in the early Universe: In the view of the newest observations with Spitzer, ALMA, and HST* |
| *October 2017* | Cornell University: Galaxy lunch seminar (Ithaca, NY, USA)<br>Talk: *Galaxies in the early Universe: In the view of the newest observations with Spitzer, ALMA, and HST* |
| *October 2017* | UC Riverside: Lunch seminar (Riverside, CA, USA)<br>Talk: *Galaxies in the early Universe: In the view of the newest observations with Spitzer, ALMA, and HST* |
| *September 2017* | UCLA: Lunch journal club (Los Angeles, CA, USA)<br>Talk: *Galaxies in the early Universe: In the view of the newest observations with Spitzer, ALMA, and HST* |
| *September 2017* | Carnegie Observatories: Lunch talk (Pasadena, CA, USA)<br>Talk: *Galaxies in the early Universe: In the view of the newest observations with Spitzer, ALMA, and HST* |
| *February 2017* | Caltech/IPAC lunch talk (Pasadena, CA, USA)<br>Talk: *Insights into the high-redshift Universe using Spitzer and Local Galaxies* |
| *August 2016* | ETH Zurich: Lunch seminar talk (Zurich, Switzerland)<br>**Invited Talk**: *Insights into the High-Redshift Universe using Spitzer and Local Galaxies* |
| *June 2016* | Telescope Science Institute and Johns Hopkins University: lunch seminar (Baltimore, MD, USA)<br>Talk: *Insights into the High-Redshift Universe using Spitzer and Local Galaxies* |
| *May 2016* | UC Davis: Cosmology seminar (Davis, CA, USA)<br>**Invited Talk**: *Insights into the High-Redshift Universe from Spitzer and Local Galaxies* |
| *May 2016* | Pasadena postdoc retreat (Lake Arrowhead, CA, USA)<br>Talk: *Emission line Properties of high-z Galaxies* |
| *October 2016* | University of Minnesota: Astrophysics colloquium (Minneapolis, MN, USA)<br>**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)<br>**Invited Talk**: *Insights into the High-Redshift Universe using Spitzer and Local Galaxies* |
| *September 2016* | Geneva Observatory: Astronomy seminar (Geneva, Switzerland)<br>Talk: *Insights into the High-Redshift Universe using Spitzer and Local Galaxies* |

## Conference Talks

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| *October 2020* | The Rise of Metals and Dust in Galaxies through Cosmic Time (Marseille, France)<br>Talk: *The far-IR dust SEDs of z > 5 galaxies: Hot or Cold?* |
| *August 2020* | The 2020 Greater IPAC Science Symposium (Pasadena, CA, USA)<br>Talk: *The far-IR SEDs of z=5 Galaxies: Hot or Not?* |
| *February 2020* | Spitzer Legacy Conference at Caltech (Pasadena, USA)<br>**Invited Talk:** *Studying the first Galaxies with Spitzer* |
| *November 2019* | Keck Science Meeting 2019 at UCLA (Los Angeles, USA)<br>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)<br>Talk: *Insights into the ISM conditions of infant galaxies* |
| *July 2019* | The 2019 Greater IPAC Science Symposium (Pasadena, CA, USA)<br>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)<br>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)<br>Talk: *Go ALPINE! Interstellar medium properties of high redshift galaxies* |
| *April 2018* | Simulated Skies for new-generation Spectroscopic Surveys (Madrid, Spain)<br>Talk: *Empirical Modeling of the Redshift Evolution of the [NII]/Hα ratio for Galaxy Redshift Surveys and Simulations* |
| *May 2017* | The 2017 Greater IPAC Science Symposium (Pasadena, CA, USA)<br>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)<br>Talk: *How to quench massive galaxies* |
| *March 2016* | The 2016 Greater IPAC Science Symposium (Pasadena, CA, USA)<br>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)<br>Talk: *Emission Lines from Broad Bands: sSFR and [OIII]/Hβ ratio at 3 < z < 6* |
| *January 2016* | 227th Meeting of the American Astronomical Society (Kissimmee, FL, USA)<br>Talk: *Rest-UV absorption lines as Metallicity Estimator: The Metal Content of Star-forming Galaxies at z ∼ 5* |
| *August 2014* | Lyman Continuum Leakage and Cosmic Reionization (Stockholm, Sweden)<br>Talk: *Constraints on re-ionization at z ∼ 8 using Lyα emitters* |

## Collaborative Meetings and Workshops

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| *October 2019* | Lorentz Workshop: Revolutionary Spectroscopy of Today as a Springboard to the James Webb Space Telescope (Leiden, Netherlands)<br>**Invited Talk**: *ALPINE – The first multi-wavelength survey to study galaxies at 4<z<6 (from UV to FIR wavelengths)* |
| *September 2019* | IPAC Containerization Workshop (Pasadena, USA)<br>**Invited Talk**: *Containerize, don't improvise! Importance of containers from a scientist's view* |

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| *May 2019* | ALPINE Team Meeting (Bologna, Italy, **co-organizer**)<br>Lead ancillary data group |
| *May 2019* | COSMOS Team Meeting (New York, USA)<br>Talk 1: *Update on ALPINE*<br>Talk 2: *Insights into the ISM of Early Galaxies* |
| *October 2018* | BUFFALO Team Meeting (Marseille, France)<br>Talk: *Study Galaxy Growth in the Early Universe with Spitzer and ALMA* |
| *October 2018* | ALPINE Team Meeting (Marseille, France) |
| *June 2018* | COSMOS Team Meeting (Copenhagen, Denmark)<br>Talk: *Go ALPINE! Interstellar Medium Properties of High Redshift Galaxies* |
| *July 2017* | COSMOS Team Meeting (Kyoto, Japan)<br>Talk: *Galaxies at z = 6: Hot and turbulent?* |
| *May 2017* | Hyper Suprime-Cam Collaboration Meeting (Sendai, Japan)<br>Talk: *Studying optical Emission Lines in z > 4 Galaxies with SPLASH* |
| *June 2016* | COSMOS Team Meeting (Baltimore, MD, USA)<br>Talk: *Studying the First Galaxies with Spitzer and the Help of Locals* |
| *June 2015* | COSMOS Team Meeting (Helsinki, Finland)<br>Talk: *Quenching of Massive Galaxies* |
| *May 2015* | COSMOS Team Meeting (Zagreb, Croatia)<br>Talk: *Structure of high mass galaxies at z ∼ 2 in UltraVISTA* |
| *May 2013* | COSMOS Team Meeting (Kyoto, Japan)<br>Talk: *Spectroscopic follow-up of z ∼ 7.7 Lyα emitters in COSMOS* |
| *June 2011* | COSMOS Team Meeting (Zurich, Switzerland)<br>Talk: *The galaxy population in z ∼ 2 proto-groups* |
| *May 2011* | zCOSMOS Team Meeting (Zurich, Switzerland)<br>Talk: *Update on zCOSMOS-deep sample* |

## Conference Posters

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

## Professional Activities and Services

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| *April 2020 to present* | External proposal reviewer for the Hubble Space Telescope |
| *August 2019 to present* | Member of the IPAC Visiting Graduate Student Fellowship committee |
| *December 2017 to present* | Science advisor and consultant for *The Science and Entertainment Exchange*: A 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. |

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| *December 2017 to present* | Reviewer for the *NASA Earth and Space Science Fellowship (NESSF)* and the *Future Investigators in NASA Earth and Space Science and Technology (FINESST)* programs. These fellowships are $45k awards to supplement graduate student's stipend for a period of up to three years. |
| *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 |
| *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), "The Astrophysical Journal" (ApJ), and Astronomy & Astrophysics (A&A) |
| *January 2021* | Organizer of 2-day Machine Learning workshop at the AAS #237 (>100 attendees) |
| *October 2020* | SOC member of the 2020 Accelerated Artificial Intelligence for Big-Data Experiments Conference (Illinois, USA) |
| *February 2020* | LOC member of the "Celebrating the Legacy of the Spitzer Space Telescope" conference at IPAC (Pasadena, USA) |
| *January 2020* | Organizer of the Machine Learning workshop at the AAS #235 in Honolulu, Hawaii (~ 80 attendees) |
| *September 2018 to 2019* | Member of the Caltech Astronomy Colloquium committee |
| *December 2017* | LOC member of the *JWST Proposal Planning Workshop*<br>Pasadena, CA, USA |
| *November 2016 to 2018* | Lead of Pasadena Astro Postdoc Mixer at Caltech/IPAC<br>Pasadena, CA, USA<br>*Acquisition of funding and organization. Science meeting for all postdoctoral researchers in astronomy related fields in Pasadena (including Caltech, Carnegie, JPL).* |

## 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 to present* | Contributions to Astronomy on Tap Los Angeles (Pasadena, CA, USA)<br>Talk (September 2016): *All started with a Big Bang* |
| *2016 to present* | Contributions to and co-lead of Lecture Series & Stargazing at Caltech (Pasadena, CA, USA)<br>Talk (September 2017): *Where to find real Time Machines and how to use them* |
| *2016 to present* | Member of the Los Angeles Astronomical Society (LAAS) and Friends of the Griffith Observatories (FOTO) |
| *February 2021* | EESA STEM career conference (panel member) of the John Muir High School |
| *September 2020* | Public talk at the Idaho Star Party (virtual) (Idaho, USA)<br>Talk: *The Formation of Galaxies Revealed by the Largest Time Machines* |
| *May 2020* | Live YouTube Interview for Daily Space about ALPINE press release |
| *September 2019* | Organizer of Caltech/Astro outreach event for SSGA/Merill at Caltech (Pasadena, CA, USA). |

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| *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<br>Talk: *The Big Bang and the Birth of Galaxies* |
| *June 2018* | Public talk at the Griffith Observatory for the Friends of the Observatory (FOTO) (Los Angeles, CA, USA)<br>Talk: *The Life of Galaxies: From turbulent Birth to (a silent) Death* |
| *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)<br>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)<br>Talk: *The Life of Galaxies: From turbulent Birth to (a silent) Death* |
| *June 2016* | Speaker at Astronomy on Tap Baltimore (Baltimore, MD, USA)<br>Talk: *The Big Bang and the Birth of Galaxies* |
| *March 2016* | Greenway Talk Series at the Palomar Observatory (Palomar Mountain, CA, USA)<br>Talk: *The High Redshift Universe: How we find and characterize the First Galaxies in our Universe* |
| *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) |

## IN THE PRESS

Some of the most important appearances in the press

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| *October 2020* | ALMA/NRAO press release* featuring ALPINE:<br>https://public.nrao.edu/news/galaxies-in-the-infant-universe-were-surprisingly-mature/<br>* I organized this press release |
| *April 2020* | Caltech news story on ALPINE:<br>http://pma.caltech.edu/news/rotating-galaxies-galore |