

Data Curation, User Support and Outreach

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ADS Users Group Meeting, 15-16 Nov. 2021



Data Curation, User Support and Outreach

- **Curation improvements/updates**
- **Name Change Policy (June)**
- **Search by Affiliation update**
- **User Support statistics**
- **Summary of meetings and presentations**

Curation Improvements/Updates

- Change to weekly physics updates last March
 - Averaging more than 22K records per week
- Current ADS Holdings
 - 16.8 million records (+4%)
 - 142.6 million citations (+10%)
 - 12.5 million (74%) with links to full text
- New publishers/journals
 - Science Partner Journals (SPJ), smaller ones
 - New requests approximately monthly
 - Balance incomplete metadata feed from Crossref with work involved in parsing content from publishers
- PhD Theses

PhD Thesis update

- Background

- Many years of sole-source metadata (Proquest), essentially coverage of only US/Canada
- Author submissions
- Occasional harvest of institutional repositories (hand work)

- Astrogen to the rescue!

- Astronomy Genealogy Project (Joe Tenn, now AAS)
- <https://astrogen.aas.org>
- 34,000 PhD Theses ($\frac{1}{3}$ already in ADS)
- 22,000 new theses just added (11/2021)
- 192K -> 214K (11% increase)

- Still to do

- Harvest HAL (France), OATD (oatd.org), EthOS (UK), other open-source repositories
- Non-astro theses

ADS Policy on Name Changes

<https://ui.adsabs.harvard.edu/help/policies/name-changes>

- Announced June 2021 in response to similar announcements from publishers
 - Following journal [COPE](#) (Committee on Publication Ethics) guidelines
 - Under our new policy, the ADS will change names in the metadata used for searching and display the preferred name but will not be able to change the names on full text articles previously published.
 - Name change vs. author synonym
 - Only about 20 requests, but **very** positive responses
 - I can't begin to express how grateful I am, and how much it means to myself and many other members of the community.
 - I'm very grateful that ADS allows this change.
 - Thanks for carrying out this initiative



SAO/NASA ADS

@adsabs



ADS is happy to announce our new name change policy! We recognize that authors change their names for many reasons & will now update names in the searchable metadata, as need requires, even if that differs from the publisher metadata. Email us for help.

ui.adsabs.harvard.edu/help/policies/...

12:39 PM · Jun 16, 2021 · Twitter Web App

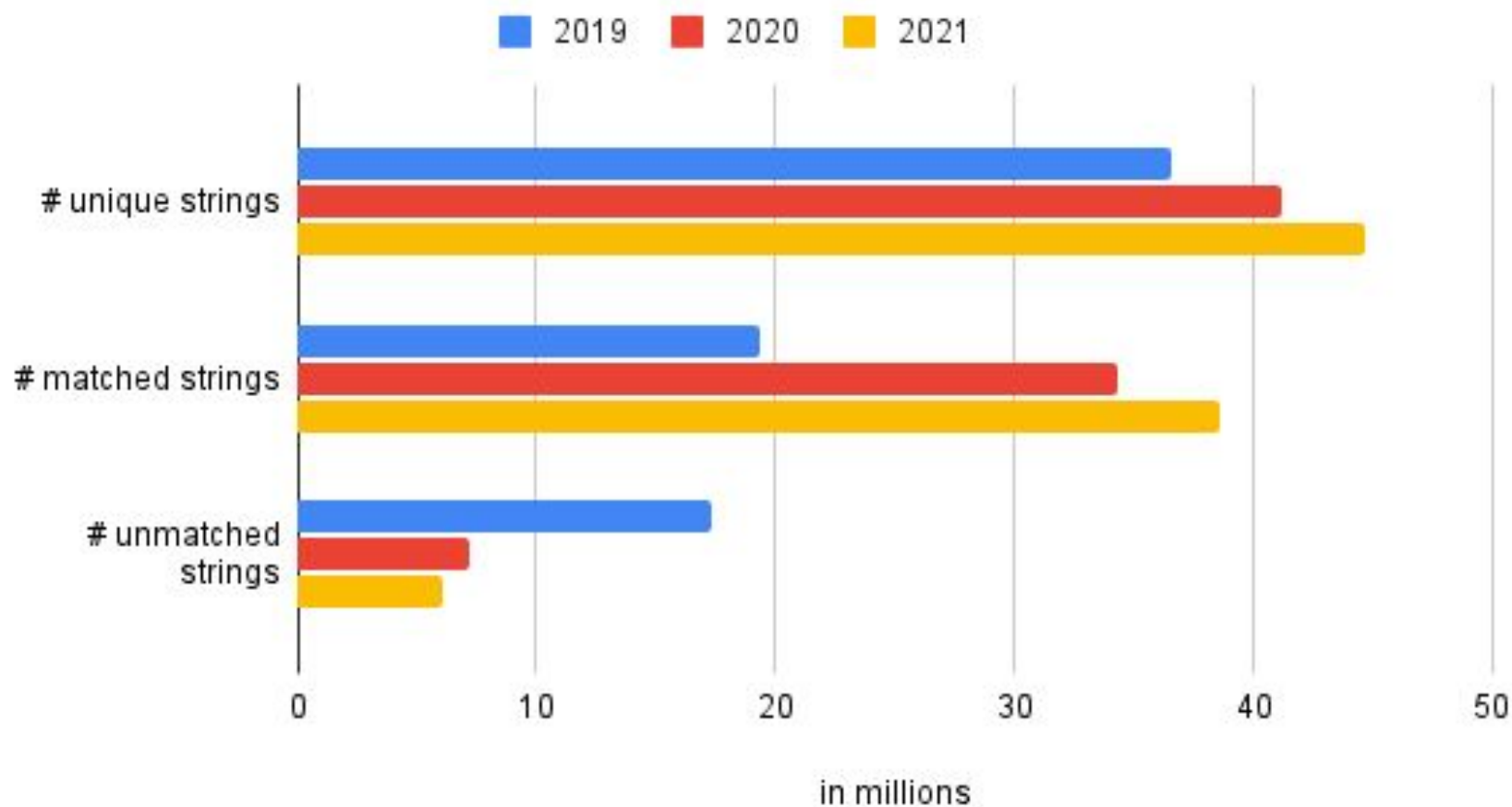
172 Retweets **24** Quote Tweets **706** Likes

Search by Affiliation Update

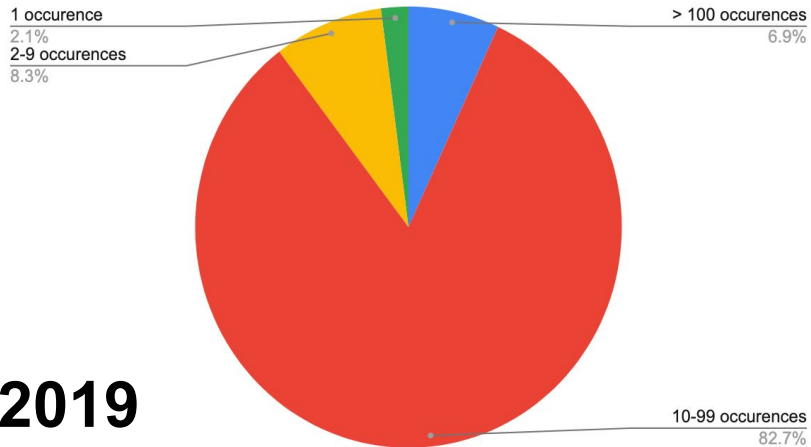
- **Background**
 - Years of affiliation data cleanup, normalization, assigning IDs
 - Filter by institution enabled Jan. 2019
 - Tribal and Historically Black College coverage expanded 2020
- **Update of coverage**
 - 5% increase in identified institutions (7000 -> 7370)
 - 8% increase in # unique strings (41.5 million -> 44.7 million)
 - 4% increase in # matched strings (83% -> 86.4%)
- **Maintenance of identifiers in github repo**
 - <https://github.com/adsabs/CanonicalAffiliations>
- **Country-specific improvements**
 - >25% improvement for 20 countries
 - 37 countries complete at the >90% level; 93 complete at the >80% level

60 Garden Street Cambridge MA 02138 USA
AMP Harvard Smithsonian CfA Cambridge MA USA
Astrophysics Data System, Harvard-Smithsonian Center for Astrophysics, 60 Garden St., Cambridge, MA 02138, USA
Atomic and Molecular Physics Division Harvard Smithsonian Center for Astrophysics Cambridge MA 02138 USA
CFA Harvard Smithsonian Institution
CFA SAO 60 Garden St Cambridge MA 02138 USA
CFA Smithsonian Astrophysical Observatory Cambridge MA USA
CXC/SAO Harvard-Smithsonian Center for Astrophysics
Center for Astrophysics 60 Garden St Cambridge MA 02138
Center for Astrophysics Harvard College Observatory and Smithsonian Astrophysical Observatory
Center for Astrophysics Harvard University Cambridge MA 02138 United States
Center for Astrophysics | Harvard and Smithsonian
Center for Astrophysics, 60 Garden Street, Cambridge MA 02138 USA
CfA 60 Garden St Cambridge MA 02138 USA
Chandra Science Center Harvard-Smithsonian Center for Astrophysics
Division of Theoretical Astrophysics Harvard Smithsonian Center for Astrophysics 60 Garden Street Cambridge Massachusetts 02138
HEA Harvard Smithsonian Center for Astrophysics Cambridge MA USA
HEA, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, USA
Harvard College Center for Astrophysics 60 Garden Street Cambridge MA 02138
Harvard Smithsonian Center Astrophys Cambridge MS Cambridge MA
Harvard Smithsonian Center for Astrophysics 60 Garden St Cambridge MA 02138 USA
Harvard Smithsonian Center for Astrophysics 60 Garden St MS15 Cambridge MS 02138 USA
Harvard Smithsonian Center for Astrophysics 60 Garden Street Cambridge MA 02138 USA
Harvard Smithsonian Center for Astrophysics MS 51 60 Garden Street Cambridge Massachusetts 02138
ITAMP, Harvard-Smithsonian Center for Astrophysics MS 14, 60 Garden Street, Cambridge, MA 02138-1516, USA
Minor Planet Center, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, USA
SAO Harvard Smithsonian Center Astrophys

Affiliation Strings

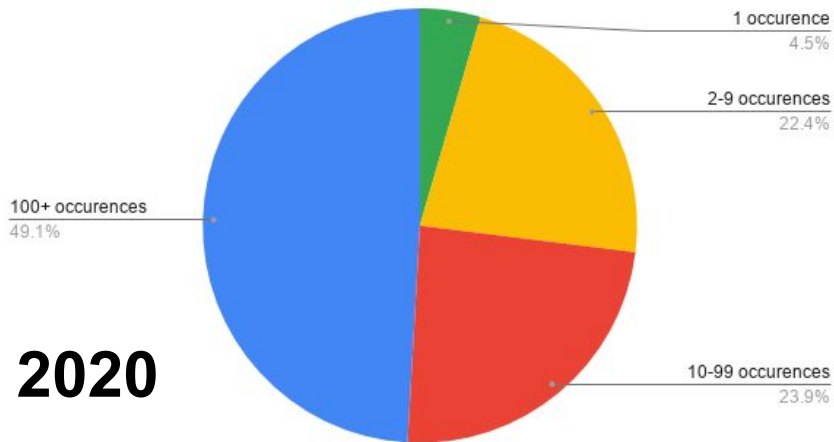


19.3 million matched affiliation strings



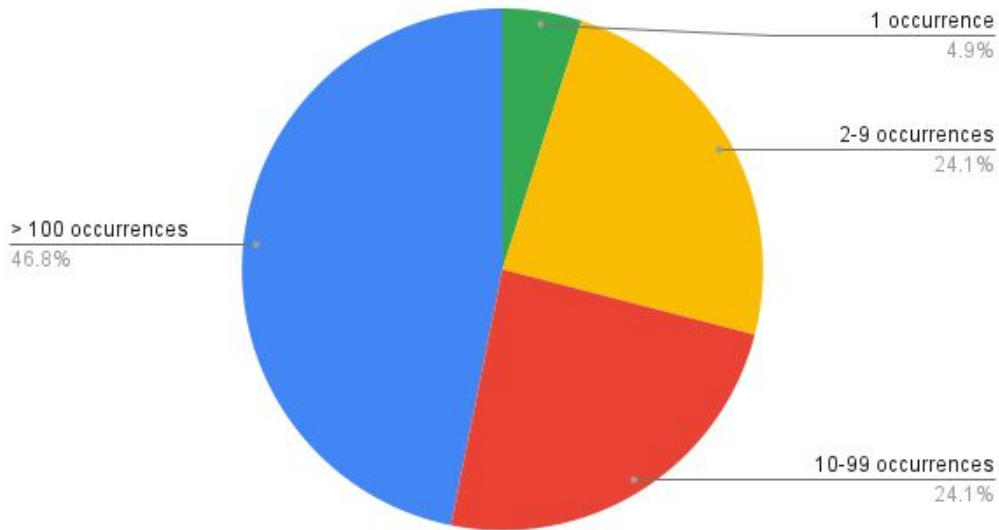
2019

34.3 million matched affiliation strings



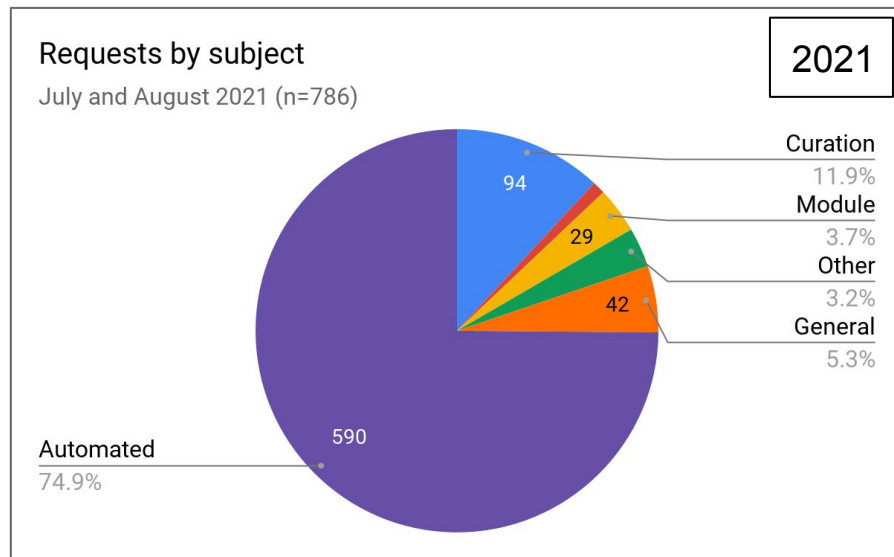
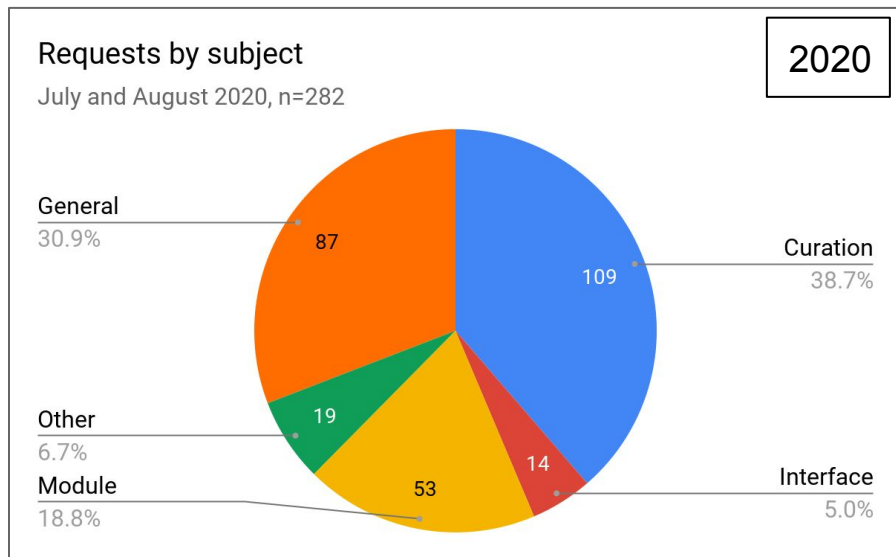
2020

38.6 million matched affiliation strings



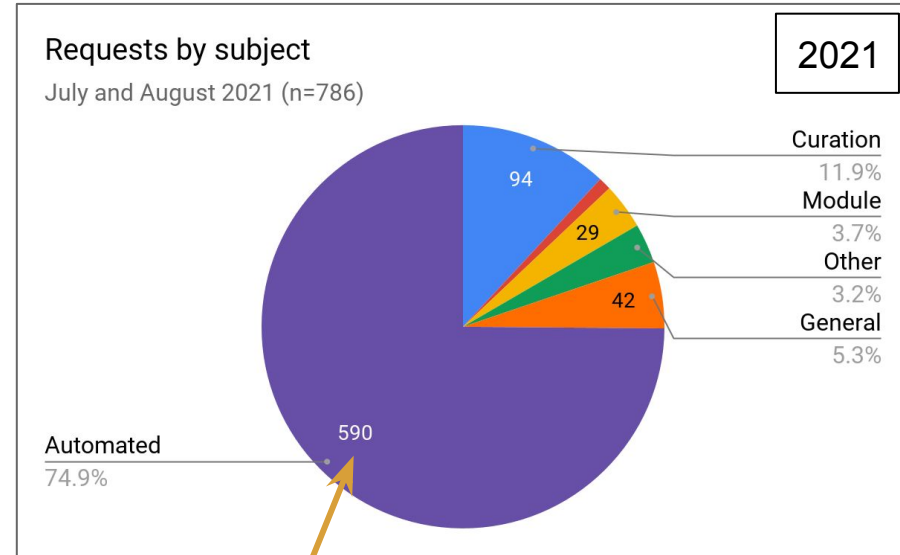
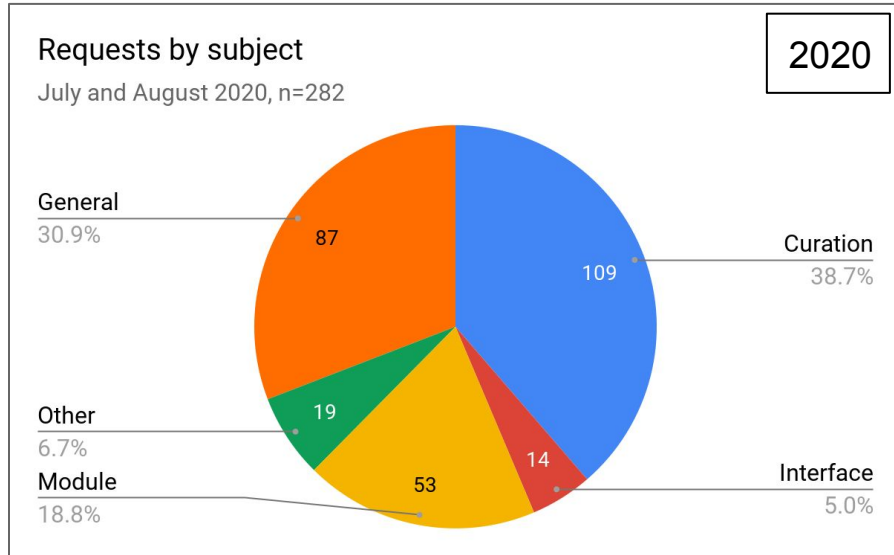
2021

User support emails, 2020 vs 2021



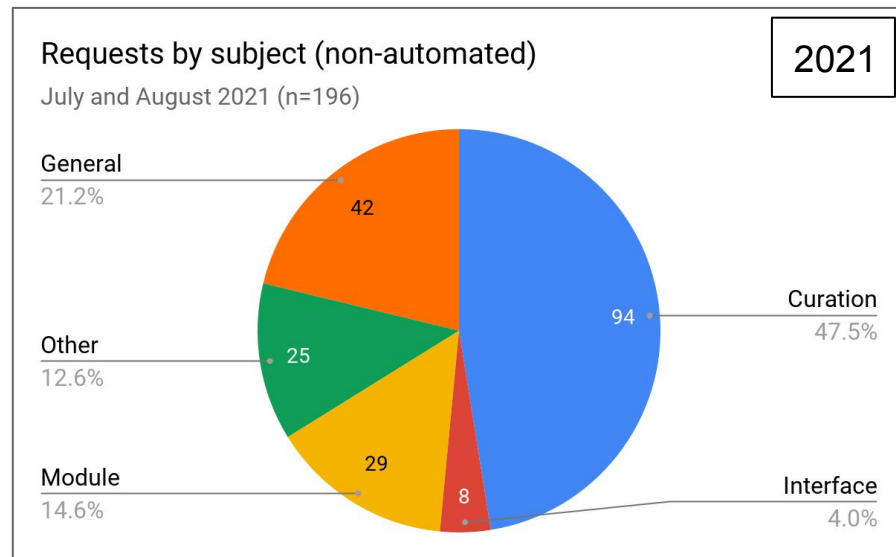
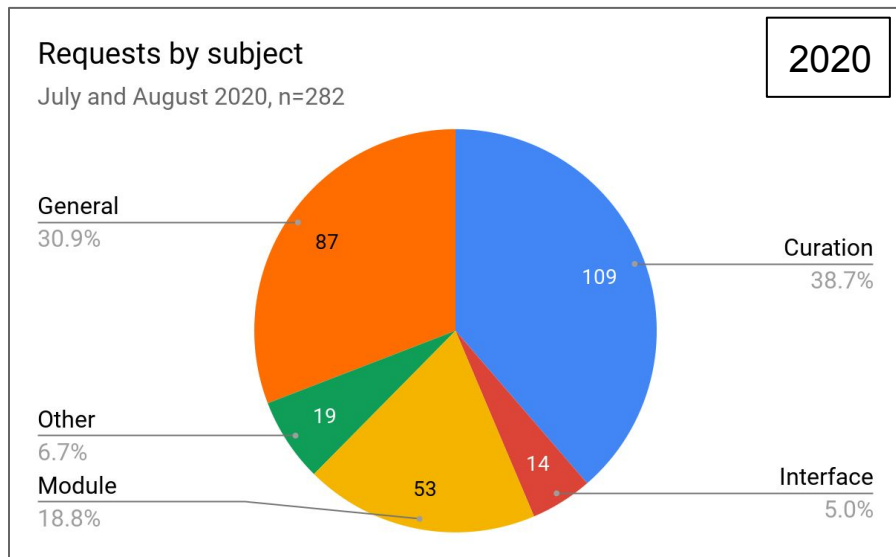
- General: Bug reports, feature requests, general questions
- Interface: UI and API questions
- Module: export, library, ORCID, or other module questions

User support emails, 2020 vs 2021



Output from new feedback forms,
most require hand curation to process

User support emails, 2020 vs 2021



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Conference Participation

- AGU (with NASA SMD)
- AAS Winter meeting
- Lunar and Planetary Sciences Conference (LPSC)
- AAS Summer meeting
- AAS Division of Planetary Sciences (DPS) Conference



Conference Participation

[Downloadable ADS handouts](#) available on ADS Help pages

- myADS
- ORCID
- Metrics
- Second order operators
- Visualizations
- API
- Affiliations

Conference Participation

- Webinars/booth talks
 - [Exploring the literature with the new ADS. \(AGU\)](#)
 - Get your Personalized Notifications and Recommendations from ADS (Winter AAS)
 - NASA Astrophysics Data System: An overview of ADS Notifications and Personalizations (Summer AAS)
 - How to stay updated on your research topics using the ADS (DPS)
- i-Posters
 - [ADS Support for Heliophysics and Planetary Sciences](#) (Summer AAS)
 - [Expanding and Enhancing Planetary Science Content in the ADS](#) (DPS)

Conference Talks and Posters

- **Pidapalooza** (Grant poster)
- **LISA** (Library and Information Services in Astronomy) **Conference**
 - [Content of the Future in ADS](#) (Accomazzi)
 - [Maximizing Research Output from the ADS](#) (Grant)
 - Contributing Content to the ADS (Thompson)
- **ADASS** (Astronomical Data Analysis Software and Systems)
 - Building astroBERT, a Language Model for Astronomy & Astrophysics (Grezes)
 - Web accessibility trends and implementation in dynamic web apps (Hostetler)

ADS hosted AAHEP meeting

Led by Edwin Henneken, ADS hosted the 11th Annual AAHEP (Information Providers in Astronomy, Astrophysics and High Energy Physics) Summit

- Two day virtual meeting in May
- Topics included
 - FAIR (Open Access Principles)
 - Metadata extraction from PDF files
 - Standard Metadata Exchange
 - External vocabularies
- ["Collective Intelligence"](#) Keynote by Michael Kurtz

Additional instructional presentations

- *Intro to the ADS* for Project PHAEDRA
- *ADS/ORCID Integration* for ORCID US Community Showcase
- *Intro to the ADS* for REU Summer interns at CfA
- *Intro to the ADS* for Smithsonian Institution Latino Initiative Program
- NASA Data Science Workshop
- NASA SMD Open Source Science Data Processing and Archives Workshop ([Murphy et al.](#))