

Resources for “Early Career Astronomers & their Supporters” Collected during Session #34 at EAS 2021

On June 28 2021 we are organizing a session on “Early Career Astronomers & their supporters”. As part of our session we are collecting information and useful links that are helpful for early-career astronomers and their supporters. Please feel free to add your resource/link/photo to this document. We are planning to share this document with the broader astronomy community (e.g. through [astrobetter](#)). You can add things by writing a “suggestion” / suggesting an edit. Alternatively, you can post things in the [#ss34_early_career_astronomers](#) slack channel, ping one of the SOC members privately over the EAS slack, or email: floor.broekgaarden@cfa.harvard.edu. Feel free to share this document with your network.

Best regards the SOC (in reversed alphabetical order):

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Links of websites/groups that collect Astronomy resources

- **Astrobetter:** Many blogs with resources for astronomers on the astrobetter website: <https://www.astrobetter.com/>
- **The early-career astronomers community facebook group** (for undergraduates to, and incl., postdocs) <https://www.facebook.com/groups/582367049172861>
- A collection of peer-reviewed papers, blogs, and resources for **women in STEM**: http://www.sarahrugheimer.com/Women_in_STEM_Resources.html

Academic writing/reading:

- Twitter thread with useful tools and websites for finding, reading and keeping track of (ArXiv) papers in Astronomy:
<https://twitter.com/FloorAstro/status/1371531751508619264>
- Twitter thread by Victoria Grinberg on writing (conference) abstracts:
<https://twitter.com/vicgrinberg/status/1378277567602495491>
- Another twitter thread on writing abstracts
<https://twitter.com/elvisha9/status/1396911495766806531>
- Template for writing paper abstracts:
<https://www.fabriziogilardi.org/resources/papers/good-abstracts.pdf>
- List of useful phrases to use in academic writing (esp. useful for non-native speakers of English, I think):
https://www.springer.com/cda/content/document/cda_downloadaddocument/

Free+Download+-+Useful+Phrases.pdf?SGWID=0-0-45-1543172-p17777519
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- A collection of writing resources from Purdue University
https://owl.purdue.edu/owl/purdue_owl.html
- The writing center - tools and tips about everything writing related:
<https://writingcenter.unc.edu/tips-and-tools/>
- A free coursera course on Writing in Sciences
<https://www.coursera.org/learn/sciwrite>
- Academic Phrasebank by University of Manchester
<https://www.phrasebank.manchester.ac.uk/>

Making a personal website

- How to make an academic personal website, blog on astrobetter by Emily Moravec:
<https://www.astrobetter.com/blog/2021/05/04/creating-a-website-to-promote-your-scientific-work/> rXiv article on this: <https://arxiv.org/abs/2012.08553>
and BAAS article: <https://baas.aas.org/pub/2020i0332/release/1>

Mental Health resources

- for graduate students from astrobites
https://astrobites.org/2019/08/23/mental-health-in-grad-school/?fbclid=IwAR2v0-HWl6MUcY3VPGZ5qfB_3lhv2Cf99FfXerSliSrKZXd5o0Z9CWFFRqk
- Posters on mental health by Zoe J Ayres
<https://www.zjayres.com/posters?fbclid=IwAR3nCmR6iT0bgHGccN9dYkm9YwxONKNFXdhTFIAmvTJLRSvSV322qPisVvQ>
- Sarah Rugheimer and Sarah Ballard's "[Self-care with Drs. Sarah](#)" podcast is geared toward promoting mental health and well-being at all stages of academia, as well as tips on navigating the academic environment.
- Mental wellbeing in Astronomy resources by Abbie Stevens:
<https://abigailstevens.com/mental-wellbeing-academia/>
- Resources and ideas for mental well-being with crafts/arts:
 Crafting Resources by Soheb Mandhai.
- <https://voicesofacademia.com/>

- Talk on Imposter Syndrome by Sarah Rugheimer:
https://www.youtube.com/watch?v=natKv595gUQ&ab_channel=SarahRugheimer
- **UK:** Something worth knowing about on the theme of work-life balance is the UK's [Dorothy Hodgkin Fellowship](#), which is designed to be flexible and is available to be held part-time. You're eligible if you have a caring responsibility or health issue.
- Yoga websites/links:
 - Yoga with Kassandra
 - yoga with adriene is great!
<https://www.youtube.com/user/yogawithadriene/videos>
 - Laruga Glaser:
<https://www.youtube.com/channel/UCuQ84RIDfj6gPFp7s-xW14g>
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Applying to PhD/PostDocs/summer schools resources:

- Find jobs through: <https://jobregister.aas.org/>
- A document on “**applying for PhD positions in Astronomy & Astrophysics**”. This document is written by (former) PhD students and gives tips and tricks on how to find, and apply to PhD positions. It also shares some experiences and advices from former students. See:
<https://docs.google.com/document/d/1mHZFVskJ8uEF5xdMnsq1LRMDaQtUVggPLWg5uUNSxD4/edit?usp=sharing>
- Document with list of possible (PhD) interview questions that are typically asked during PhD interviews.
<https://docs.google.com/document/d/1FAWHxGJcDSvh78aJf7yEnnllwmLHMG9jjLB-nE1CLmA/edit?usp=sharing>
- List of summer school/internship opportunities from Astrobetter:
<https://www.astrobetter.com/wiki/Summer+Internships>
- **NSF GRFP:** website with examples of applications to the NSF graduate research fellowship grant <https://www.alexhunterlang.com/nsf-fellowship>
- **GRE requirement grad schools:** Here's a rough list with universities and whether they dropped the general/physics requirement
https://docs.google.com/spreadsheets/d/19UhYToXOPZkZ3CM469ru3Uwk4584CmzZyAVVwQJJcyc/edit?usp=drive_web&ouid=105945932062731719388

(Summer) schools/internships

ESO: <http://www.eso.org/sci/activities/fellowships-and-studentships/FeSt-overview/ES-Ostudentship.html>

PostDoc application / fellowship resources:

Netherlands:

- [GRAPPA postdoctoral fellowship](#) for an independent research position for three years in the areas of astroparticle physics, cosmology and gravitation.
- [Veni fellowship](#) competitive Dutch national fellowship for early career PDs.
- [Vidi fellowship](#) competitive Dutch national fellowship towards leadership position.
- [Marie Skłodowska-Curie actions](#), European fellowship towards leadership position.

Spain:

For Spain, there are the [Juan de la Cierva-formacion](#) for early career post-doc (you need to have already your PhD degree at the moment of the application) and [Juan de la Cierva-Incorporacion](#) (senior post-doc). For institutes in Catalunya, there is the [Beatriu de Pinós](#)

EU fellowships: see

[https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities\[...\]y=asc;onlyTenders=false;topicListKey=topicSearchTablePageState](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities[...]y=asc;onlyTenders=false;topicListKey=topicSearchTablePageState) deadline 12 Oct 2021.

50 additional fellowships will be funded through

HORIZON-WIDERA-2022-TALENTS-02-01. I think fellowship applications will automatically be submitted to this WIDENING call if they fail 'to reach an adequate place in the ranking to be funded' and if the host institute is in a WIDENING country: Bulgaria, Croatia, Cyprus, Czechia, Estonia, Greece, Hungary, Latvia, Lithuania, Malta, Poland, Portugal, Romania, Slovakia, Slovenia and all Associated Countries with equivalent characteristics in terms of R&I performance and the Outermost Regions. As a novelty, the Outermost Region inclusion means the IAC in Tenerife, Spain, will now be included in this 

Mentoring networks that early-career researchers can join:

SN network: <https://supernovafoundation.org/>

Mentoring resources

- Resources gathered by CSWA:
<https://aas.org/comms/cswa/resources/mentoring>
- Mentoring resource for students/mentees to help set up a mentoring network, and set expectations with your mentor(s): myumi.ch/K4zPD, By U. of Michigan
- Mentoring resource for faculty for mentoring graduate students:
myumi.ch/R58Oq. By U. of Michigan
- Effective mentoring practices guide, by Brown University;
<https://www.brown.edu/sheridan/teaching-learning-resources/mentoring-resources/effective-mentoring-practices>
- Resource page for effective mentoring in STEMM:
<https://www.nap.edu/resource/25568/interactive/>
- Mentoring resources list by astrobetter:
<https://www.astrobetter.com/wiki/Mentoring+in+Astronomy+and+Geophysics>
- one of my favorite mentoring documents: “How to get the mentoring you want: a guide for graduate students”, by U. of Michigan.
colorado.edu/graduateschool/sites/default/files/attached-files/mentoring.pdf
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Giving talks / public speaking

- Blog “The Art of Public Speaking for Scientists” by Heloise Stevance:
<https://www.hfstevance.com/blog/publicspeaking>
- How to speak by Patrick Winston <https://www.youtube.com/watch?v=Unzc731iCUY>

Career advice

What does success mean to you

<https://astrobites.org/2018/08/17/what-does-success-mean-to-you/>

And ArXiv: <https://arxiv.org/abs/1805.09963>

Finding/attending conferences

- Find conferences through: <https://www1.cadc-ccda.hia-ihp.nrc-cnrc.gc.ca/en/meetings/>

Tips for conference posters:

<https://www.washington.edu/doit/how-can-i-create-conference-poster-accessible-people-disabilities>

Other:

Johan Knapen: The EAS Ethics Document

(https://eas.unige.ch/documents/EAS_Ethics_Statement.pdf) has many relevant statements (e.g. [recommend] That all researchers, including PhD students, be employed under employment contracts that ensure full benefits, including healthcare, pension, maternity/paternity leave, and unemployment and disability benefits; also Sect 4 on widening access). The document is being revised now and your input will be welcomed (<https://documentcloud.adobe.com/link/review?uri=urn:aaid:scds:US:5fa0e64b-c113-41df-ac06-312e1c05991e#pageNum=9> -