

# Visualising research and the addition of supplementary material as a complete research output

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## Key Points

- **3D visualised data**

Animated data into a 3D visualisation allows others to better understand the data.

- **Complete research output**

Sharing supplementary data alongside published work creates a complete research output.

- **Arranging figure sets**

Arranging and storing data sets and linking to social media is a great way of sharing your data.

## About Adric

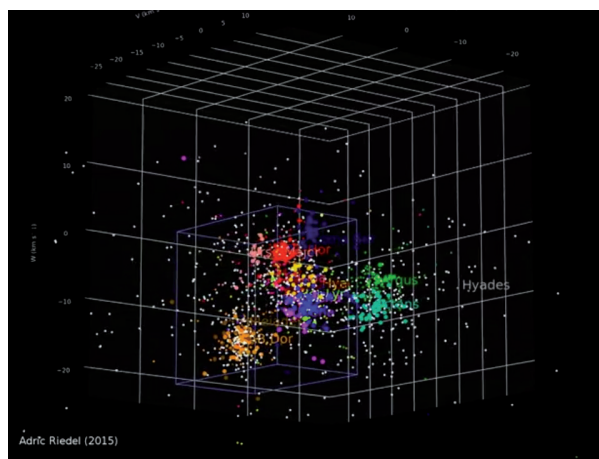
I'm an astronomer and I work on nearby stars, young stars, in particular. Basically, the line of research that most closely resembles stuff that I've put on figshare is the young star research. I am attempting to put together a database of information about all star-forming regions within about 1,000 parsecs. I like scientific visualisations and I like coming up with engaging, educational materials.

## Using 3D animations to visualise data

I am a very visual learner. I prefer to be able to see something either in my head or in reality in order to understand it, to understand where everything fits in. I remember it went back almost as far as when I signed on to work with the PhD advisor that I worked with, I told him that I wanted to find a star within 10 parsecs of the sun and make a map of the nearby galaxy.

I've been fascinated to some degree for a long time about 3D and how those things work, so a lot of the 3D animations that I've uploaded I wrote my own 3D engine for. That technical aspect interested me and it helps me understand what I'm dealing with. Now, if I'm looking at the Pleiades cluster, I know where it is and I can show it to other people. I think that's helpful for people like me - space is vast and you hear about all of these names and you don't know where they go, really.

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Young Star Animations 2015

## How my research becomes more than the published paper

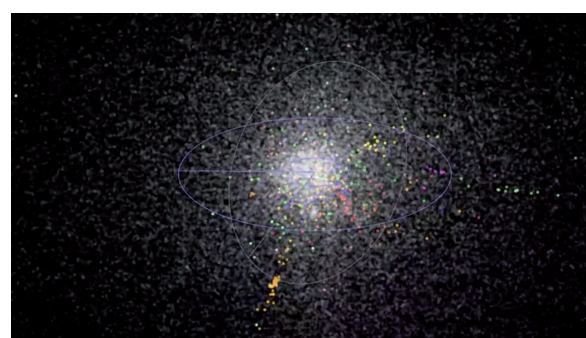
figshare has changed the way I conduct my research to some extent because with journal papers, trying to fit all of your research into the published paper can be incredibly expensive and cumbersome because there are a tonne of figures. I'm working on a paper right now where there's a lot of supplementary stuff that's not the most important to get published because it's just the same plot that I already have in there with a different cluster or a slightly different axis. I will put all of these on services like figshare because then people can see them.

*“My research becomes more than just the published paper. With the animations I have on figshare right now, I can get credit and citations for all of that work I did.”*

Basically, my research becomes more than just the published paper. With the animations I have on figshare right now, I can get credit and citations for all of that work I did, even though you really can't put a movie or an interactive demo or anything into a paper. The ultimate form of scientific research is still mostly considered to be a paper (in a PDF format). Anything you can't stick in there is just extraneous. But with figshare, I can actually get the stuff out there and have it be at least semi legit research or work that I've done and then tell people about it because it's also a centralised clearing house for the work that I've done. I know there are some professors who are using my animations in their classes.

## Sharing my data on social media

At the moment, my favourite way of using figshare is essentially as a localised location where I can put - and also arrange into figure sets - my data, so that I can then share it to Facebook when I announce, “Hey guys, I have this paper”. Right now, a lot of my animations are linked to my blog where people can find my stuff. I'm using figshare as a storage location.



3D plots of the Solar Neighborhood

Get in touch:

[figshare.com](https://figshare.com)

[info@figshare.com](mailto:info@figshare.com)