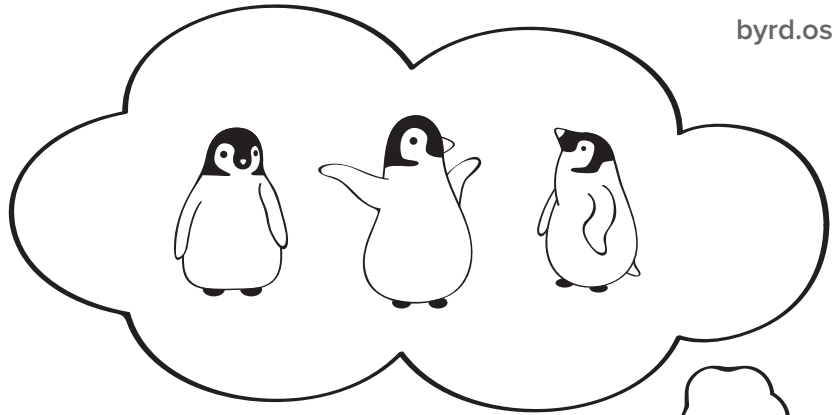
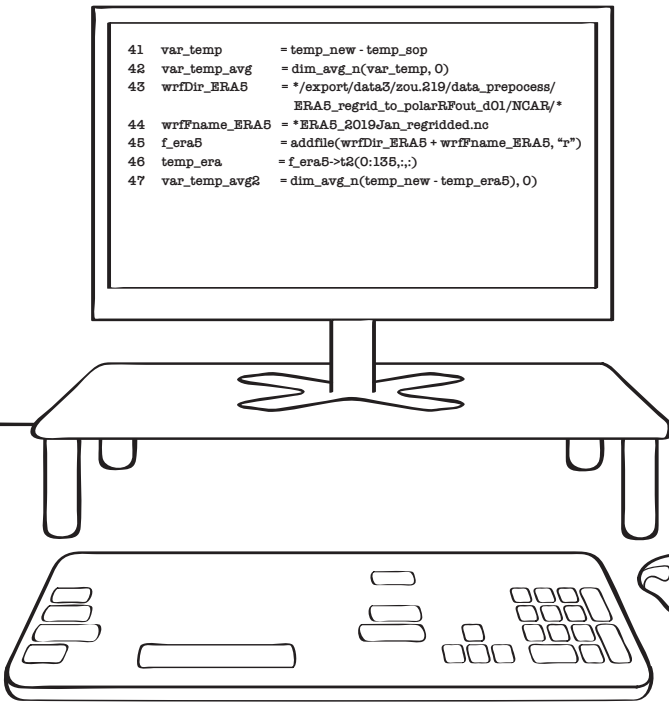


Joining Byrd was a life-changer for Jerry. She's learned about climate modeling and "black magic" in computer programming. One day, she hopes to go to Antarctica to see some penguins in their natural home!



Jerry doesn't work in the field. She works in an office and uses both desktop computers at the Byrd Center and supercomputers at the Ohio Supercomputer Center.

```
41 var_temp      = temp_new - temp_sop
42 var_temp_avg  = dim_avg_n(var_temp, 0)
43 wrfDir_ERA5   = */export/data3/zou.219/data_preprocess/
                  ERA5_regrid_to_polarRFout_d01/NCAR/*
44 wrfName_ERA5 = ERA5_2019Jan_regridded.nc
45 f_era5        = addfile(wrfDir_ERA5 + wrfName_ERA5, "r")
46 temp_era      = f_era5->t2(0:135,:,:)
47 var_temp_avg2 = dim_avg_n(temp_new - temp_era5, 0)
```



Jerry uses polar-optimized Weather Research and Forecast Models to simulate and investigate events where the surface of massive blocks of ice floating on the ocean, called ice shelves, melt.



Jerry's research helps us better understand why surface melt events happen in West Antarctica's Ross Ice Shelf. Faster ice flow from land into the ocean and global sea level rise are two effects of these melt events.

## Jerry Zou

Jerry Zou, a graduate student in the Atmospheric Sciences Program of the Department of Geography, joined the Polar Meteorology Group at the Byrd Center in 2016. Jerry joined Byrd because of the Weather Research and Forecast technology — and because of all the penguin decorations around the building.