*create-svdmodel --model Bu2022Ye --svd-path svdmodels --interpolation-type tensorflow --tmin 0. --tmax 21.0 --dt 0.1 --data-path pathname --tensorflow-nepochs 100 --outdir outdir --plot --filters ztfg,ztfr,ztfi*

**--model Bu2022Ye**: Specifies the model name or identifier as 'Bu2022Ye'. This likely indicates the specific model or dataset you are analyzing or creating within the NMMA framework.   
**--svd-path svdmodels**: Sets the directory path where the Singular Value Decomposition (SVD) models will be saved. In this case, it's set to 'svdmodels', indicating that the SVD results or models will be stored in the 'svdmodels' directory.   
**--interpolation-type tensorflow**: Specifies the type of interpolation to be used. Here, 'tensorflow' indicates that TensorFlow will be used for interpolation methods. This can involve techniques like curve fitting or modeling temporal variations using TensorFlow's capabilities.   
**--tmin 0. --tmax 21.0 --dt 0.1**: Defines the time range and time step for the data. The data spans from time 0.0 to 21.0 with a time step of 0.1 units   
**--data-path**: Specifies the path to the directory containing the data. In this case, it points to where the light curves data ('lcs\_bulla\_2022') related to the model 'Bu2022Ye' is located.   
**--tensorflow-nepochs 100**: Sets the number of epochs for training when using TensorFlow for interpolation. In this command, 100 epochs are specified, indicating how many times the training process will iterate over the dataset to optimize the interpolation model.   
**--outdir outdir**: Specifies the output directory where the results will be stored. Here, 'outdir' denotes that the results, including models, plots, and possibly other outputs, will be saved in the 'outdir' directory.   
**--plot**: Indicates that plots or visualizations of the results should be generated. This option is useful for visually inspecting the outcomes of the SVD modeling and interpolation process.   
**--filters ztfg,ztfr,ztfi**: Specifies the filters used in the observations. In astronomy, filters (like 'ztfg', 'ztfr', 'ztfi') refer to different wavelength bands or spectral filters used to observe astronomical objects. This option ensures that the analysis considers data from these specific filters.

lightcurve-analysis --model Bu2019lm --svd-path ./svdmodels --outdir outdir/Bu2019 --label LANL\_tf --interpolation\_type tensorflow --prior priors/ Bu2019lm.prior --tmin 0.1 --tmax 20 --dt 0.5 --error-budget 1 --nlive 512 --Ebv-max 0 –data photometry.json --generation-seed 42 --filters 2massh,2massj,2massks,atlasc,atlaso,bessellb,besselli,bessellr,bessellux,bessellv,ps1\_\_g,ps1\_\_i,ps1\_\_r,ps1\_\_y,ps1\_\_z,sdssu,uvot\_\_b,uvot\_\_u,uvot\_\_uvm2,uvot\_\_uvw1,uvot\_\_uvw2,uvot\_\_v,uvot\_\_white,ztfg,ztfi,ztfr --plot

Bu2019lm.prior

Bu2019lm

lightcurve-analysis --model Bu2019lm --svd-path ./svdmodels --outdir outdir/Bu2019 --label LANL\_tf --interpolation-type tensorflow --prior /Users/mcdavis/ztf/nmma/priors --tmin 0.1 --tmax 20 --dt 0.5 --error-budget 1 --nlive 512 --Ebv-max 0 --data /Users/mcdavis/ztf/kn-imposters/data/ZTF23aarlxdf/photometry.json --generation-seed 42 --filters 2massh,2massj,2massks,atlasc,atlaso,bessellb,besselli,bessellr,bessellux,bessellv,ps1\_\_g,ps1\_\_i,ps1\_\_r,ps1\_\_y,ps1\_\_z,sdssu,uvot\_\_b,uvot\_\_u,uvot\_\_uvm2,uvot\_\_uvw1,uvot\_\_uvw2,uvot\_\_v,uvot\_\_white,ztfg,ztfi,ztfr --plot

**Overview of nano's shortcuts**

<https://www.nano-editor.org/dist/latest/cheatsheet.html>

**How To Write Bash Scripts in Linux**

<https://www.tomshardware.com/how-to/write-bash-scripts-linux>

**How to write a loop in Bash**

<https://opensource.com/article/19/6/how-write-loop-bash>

**Make a Bash Script Executable**

<https://www.andrewcbancroft.com/blog/musings/make-bash-script-executable/>

lightcurve-analysis --model Bu2019lm --svd-path ./svdmodels --outdir $file/outdir --data $file/photometry.dat --prior /Users/mcdavis/ztf/nmma/ /priors/Bu2019lm.prior --tmin 0.1 --tmax 20 --dt 0.5 --error-budget 1 --nlive 512 --Ebv-max 0 --generation-seed 42 --filters ztfg,ztfr,ztfi --plot --remove-nondetections --ztf-uncertainties --ztf-sampling --ztf-ToO 180

lightcurve-analysis

--model Bu2019lm

--svd-path ./svdmodels

--outdir $file/outdir

--data $file/photometry.dat

--prior /Users/mcdavis/ztf/nmma/ /priors/Bu2019lm.prior

--tmin 0.1

--tmax 20

--dt 0.5

--error-budget 1

--nlive 512

--Ebv-max 0

--generation-seed 42

--filters ztfg,ztfr,ztfi

--plot

--remove-nondetections

--ztf-uncertainties

--ztf-sampling --ztf-ToO 180