

INTRODUCTION TO GEOLIME

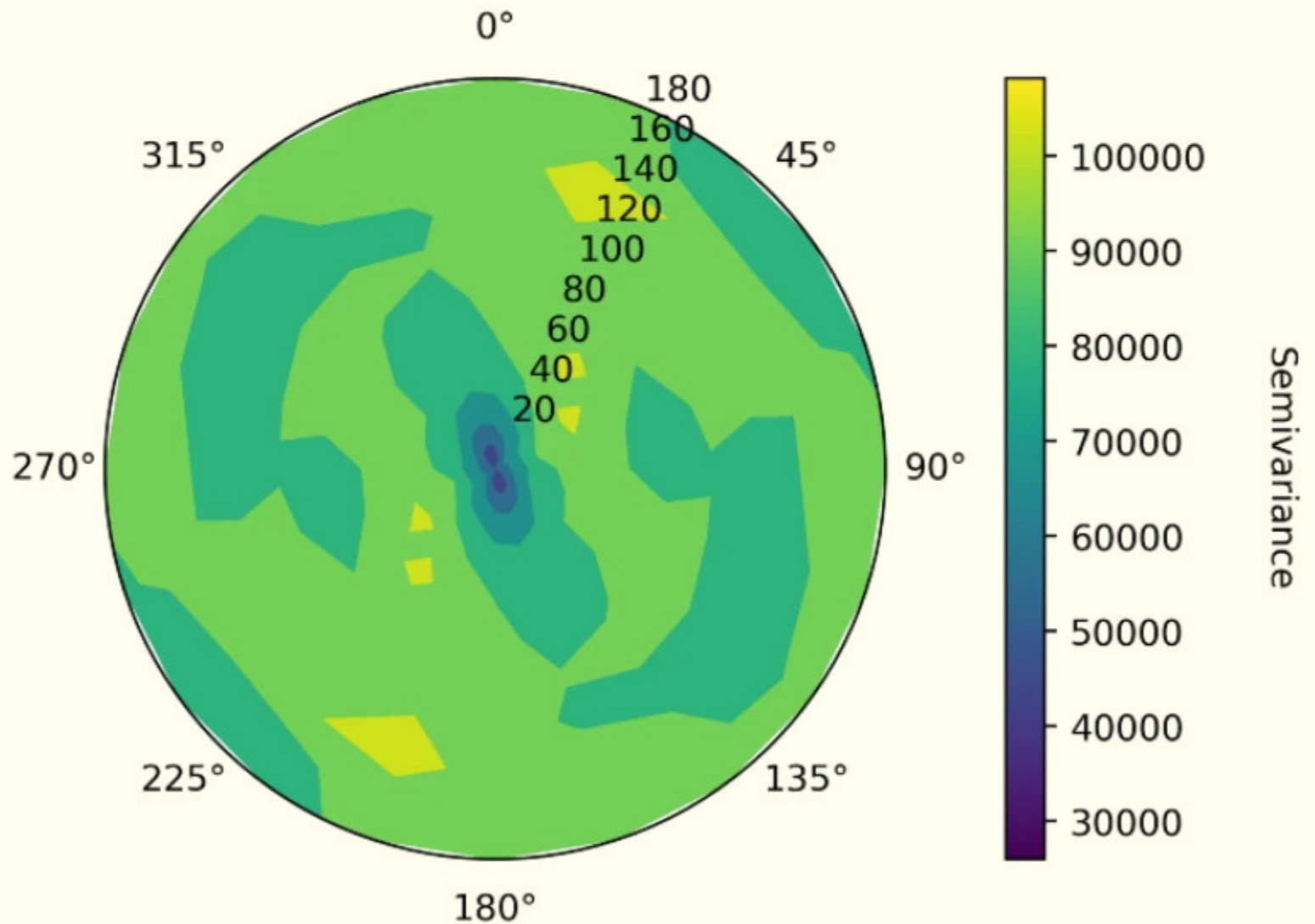
Variography.
made easy.
in Python

DEEPLIME



```
lags, tol = geo.generate_lags(  
    lag=20,  
    plag=50,  
    nlags=10  
)
```

```
geo.vario_contour(  
    composite,  
    attribute='Fe203',  
    region='HighGradeZone',  
    lags=lags,  
    tol=tol,  
    n_az=20,  
    atol=20  
)
```



```

vario_exp_160_major = geo.variogram(
    composite,
    attribute='Fe203',
    region='HighGradeZone',
    geographic_azimuth=160,
    dip=0,
    pitch=0,
    lags=lags,
    tol=tol,
    atol=45
)

```

```

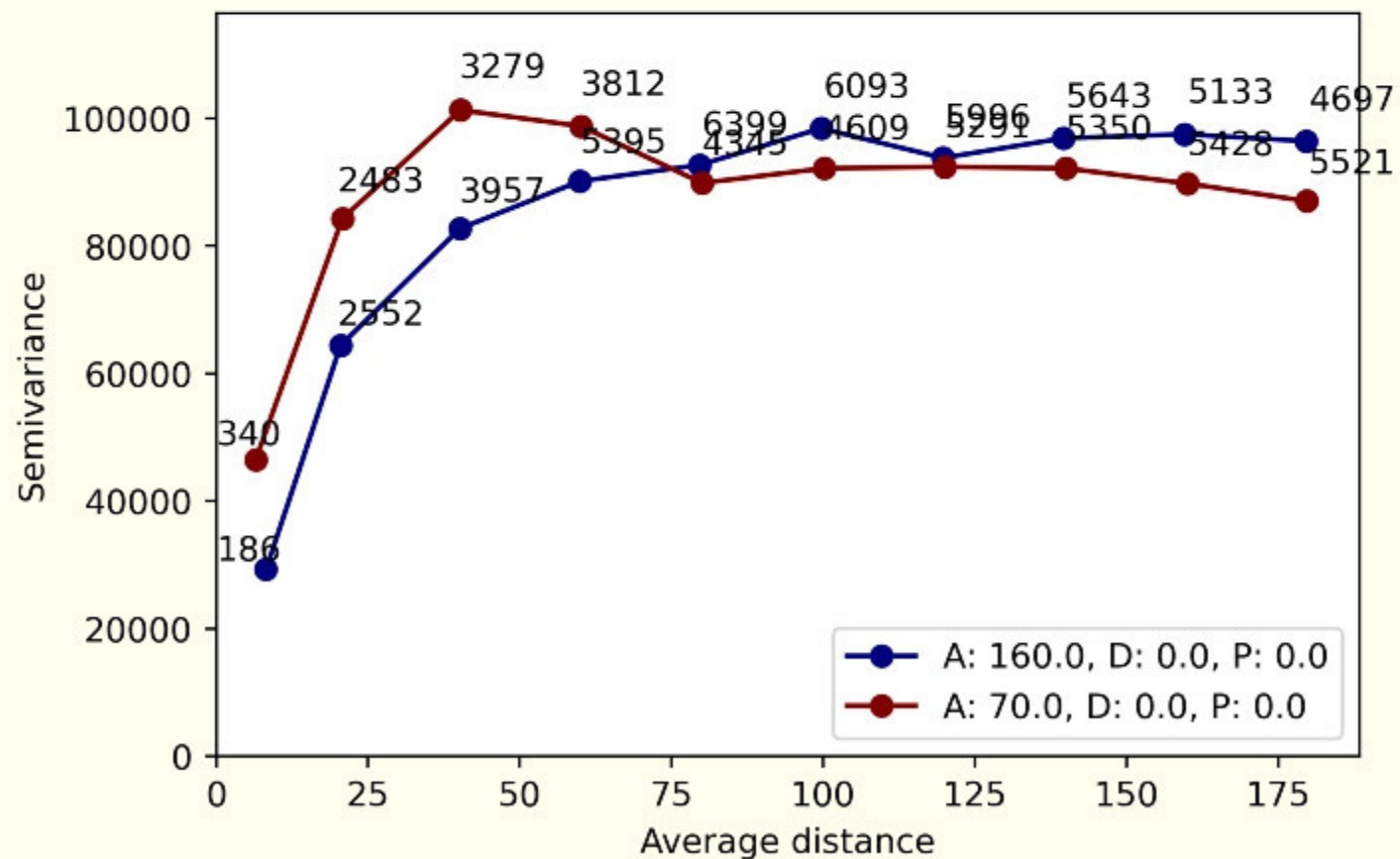
vario_exp_160_minor = geo.variogram(
    composite,
    attribute='Fe203',
    region='HighGradeZone',
    geographic_azimuth=70,
    dip=0,
    pitch=0,
    lags=lags,
    tol=tol,
    atol=45
)

```

```

geo.plot_semivariogram(
    variograms=[
        vario_exp_160_major,
        vario_exp_160_minor
    ],
    display_npairs=True
)

```



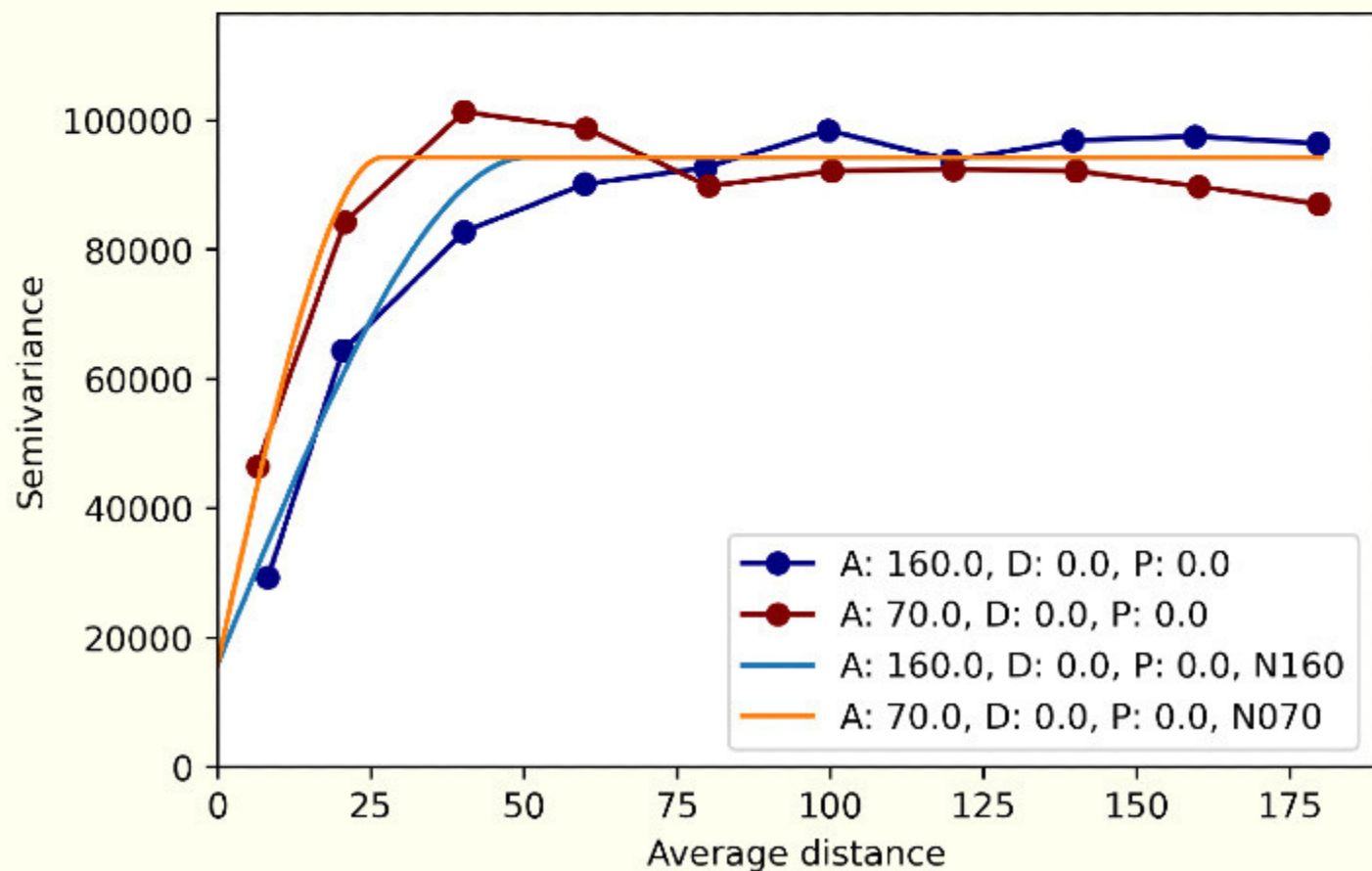
```

cov_model = geo.Nugget() + geo.Spherical()

geo.model_fit(
    [
        vario_exp_160_major,
        vario_exp_160_minor
    ],
    cov_model
)

geo.plot_semivariogram(
    variograms=[
        vario_exp_160_major,
        vario_exp_160_minor
    ],
    model=cov_model,
    model_angles=[
        {
            "azi":160,
            "dip":0,
            "pitch":0,
            "label":"N160"
        },
        {
            "azi":70,
            "dip":0,
            "pitch":0,
            "label":"N070"
        }
    ]
)

```



HOW EASY WAS THAT?

Check our
documentation
for more example,
and let's rock!

DEEPLIME

