SCIENTIFIC COMPUTING:
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2021 Small Development Grants Prospectus

NUMFOCUS

OPEN CODE = BETTER SCIENCE

FUNDING FOR DEVELOPMENT

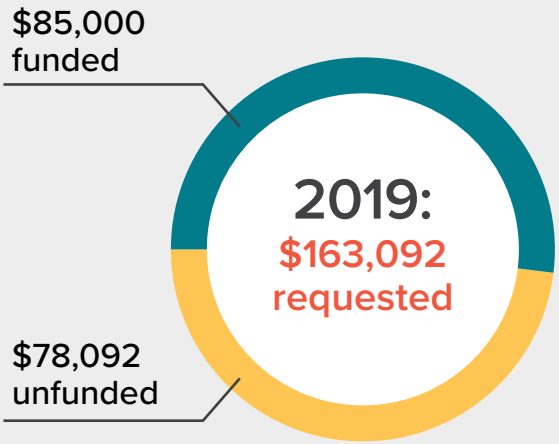
As the open source scientific data stack grows more complex and connected each day, our projects continue to serve as essential links in the chain.

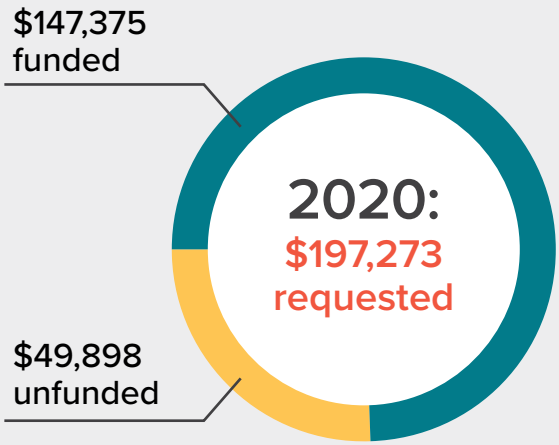
Through our Small Development Grants program, NumFOCUS provides direct project funding to help meet crucial sustainability needs. These grants cover:

- Technical infrastructure
- Documentation updates
- Accessibility measures
- Website upgrades
- Community-building programs
- Diversity and inclusion initiatives

YOUR SUPPORT

NumFOCUS relies on partnerships with corporate sponsors and individual donors to fund our Small Development Grants. Thanks to the generosity of our community stakeholders, every year we have increased the amount we award, from $13,000 in 2017 to $85,000 in 2019.





We now receive more high-quality proposals than our current budget can accommodate.
Partner with NumFOCUS to help us support these foundational open source tools!

OUR PROJECTS

NUMFOCUS

[SPONSORED PROJECTS]

NumPy


Matplotlib

pandas

Project Jupyter

IPython


SciPy


nteract


Stan

PyMC

Julia


JuMP

PyTables

Shogun


SymPy


FEniCS Project

yt

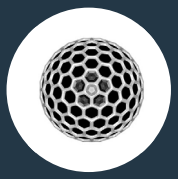
Econ-ARK


Astropy

SunPy

QuantEcon

rOpenSci


Open Journals


Cantera

Bokeh

conda-forge

xarray

Blosc

MathJax

Dask

mlpack

Zarr

MDAnalysis


scikit-image

ITK

PALISADE

OpenMBEE

scikit-learn


SciML

TARDIS

ArviZ

LFortran

NetworkX

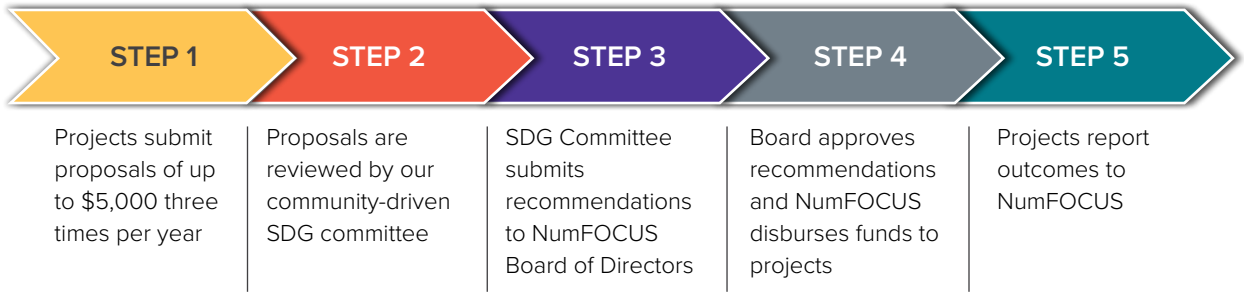
GDAL

GRANT FUNDING:
A SELECTION OF PROPOSALS FUNDED IN 2019

PROJECT	PROPOSAL TITLE	AMOUNT
ArviZ	Educational material and workshops for exploratory analysis of Bayesian models with ArviZ	$2,500
Astropy	Developing spectroscopic reduction tools	$5,000
Blosc	Document Blosc2 frame format and freeze API	$5,000
Cantera	Cantera packaging and CI infrastructure upgrades	$2,500
conda-forge	Unified Recipe Regenerator	$ 3,750
Gensim	Organize Gensim documentation and improve discovery	$5,000
Julia	JuliaImages developer meeting	$4,000
MathJax	Improved dyslexia support via Fine grained synchronized highlighting	$4,688
Matplotlib	Matplotlib Cheatsheets	$5,000
pandas	Encourage contributors from minority groups to lead efforts in improving pandas documentation	$3,000
rOpenSci	Create an open online rOpenSci Community Contributing Guide	$3,000
SciPy	SciPy development documentation overhaul	$4,274

PROCESS AND FEEDBACK

The NumFOCUS Small Development Grants program is a community collaboration which addresses project needs while also engaging dedicated volunteers. See the process below:



[Small Development Grants] can be extremely useful for bringing important developments to the community. Let's hope that NumFOCUS can continue offering paid time to developers in the future!

—Blosc

It was a good experience to get someone (part-time) engaged in contributing to open source who would otherwise not have the chance to do so.

—pandas

We ended up re-writing a conda-build skeleton in order to make it generate consistent recipes for multiple languages. The experience was smooth and [with this SDG] NumFOCUS helped us make a significant headway in improving the bot's updates.

—conde-forge

[The work funded by the SDG] was a great experience for Stephannie Jimenez, the developer we funded through the grant, because it allowed her to work on a challenging but rewarding project. After that, she became the maintainer of Spyder-terminal and a Spyder core developer.

—Spyder

> Small Development Grants are a great way to provide concrete help in several ways to NumFOCUS projects. As both co-chair of the SDG Committee and a core developer of a NumFOCUS Sponsored Project, I've seen how effective these grants have been for project communities. Overall, SDGs make it possible for open source projects to go forward faster and further!

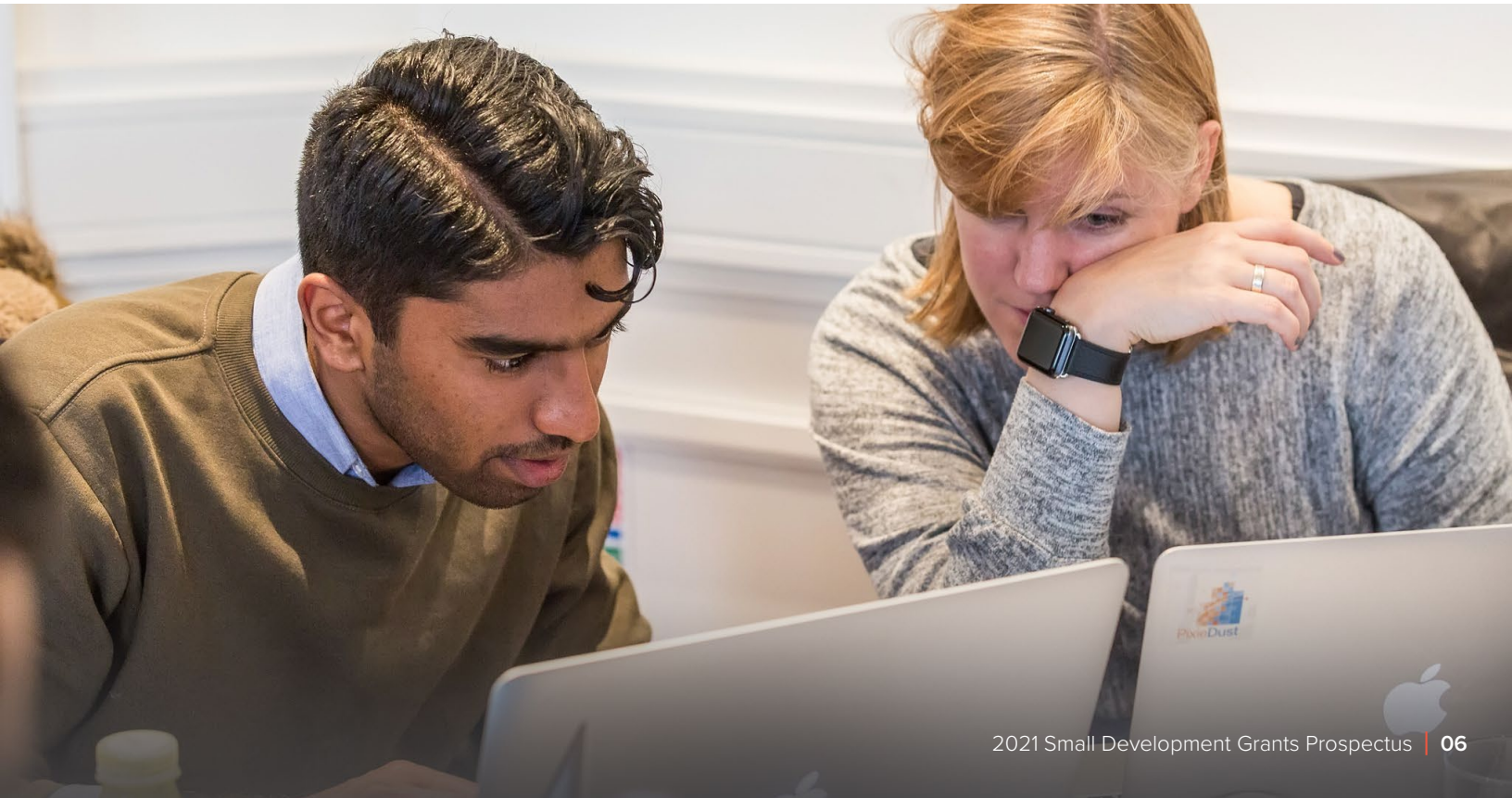
DAVID PEREZ-SUAREZ

SDG Committee Co-Chair
and SunPy Core Developer

> The Small Development Grant program is a critical resource for NumFOCUS projects. Among other things, SDGs enable projects to release new versions, to develop new training materials, and to host in-person leadership meetings to define the future of the project. Cantera has used SDG funding in each of the last several years to support these activities. As the co-chair of the SDG Committee, I see similar projects every funding round, and it is an awesome feeling to be able to tell them, "Here is the money to do what your project needs to excel".

BRYAN WEBER

SDG Committee Co-Chair
and Cantera maintainer



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If you're interested in learning more about where your contributions can make a difference in the NumFOCUS ecosystem, how NumFOCUS will acknowledge you as a Small Development Grant sponsor, or simply how to make a donation, please get in touch!

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