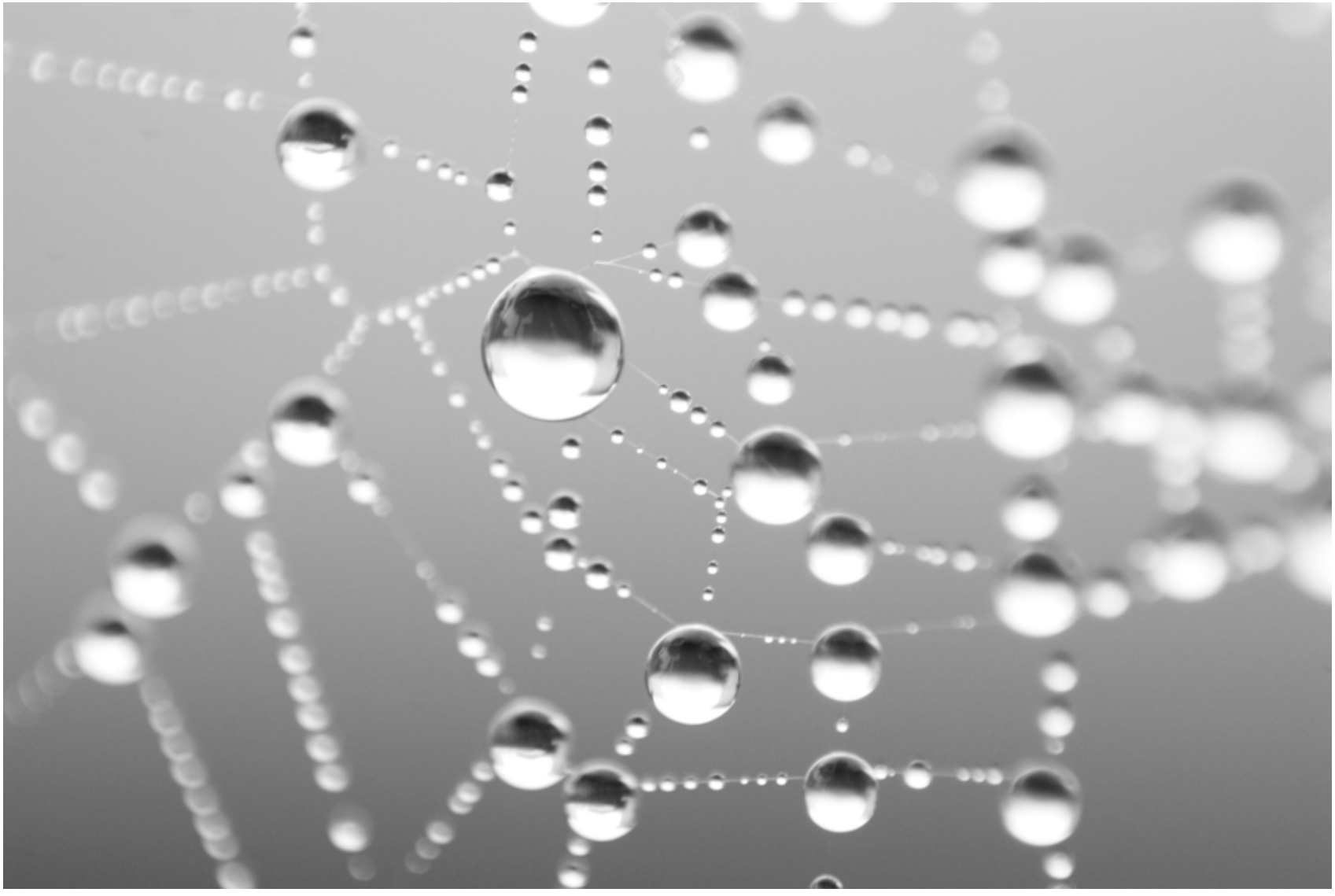
Open Science Droplets

Practical demonstrations at IAA



Purpose

- Make our research more flexible, efficient, collaborative and open
- Build a community to share know-how
- Discover and share tools and practices
- Promote Open and Reproducible Science

Material

- Github repository:
  https://github.com/spsrc/droplets
- Documentation (Open Science Droplets):
  https://droplets-spsrc.readthedocs.io/

Logistics

- Open for everyone to participate!
- Regular meetings twice a month
- You bring your coffee, we bring cookies
- Demonstration sessions to showcase tools
- Open for questions, discussions and networking

What to expect

- Show, don't tell
- Details will be provided in Reference Material
- Informal presentations
- Training plan will evolve depending on feedback

Plan

To progressively incorporate new tools:

- Jupyter notebook: the XXI century lab book
- Collaborative science using Github
- Keep your software organized with Conda
- Python interactive visualization
- Share your results with the World with Binder
- Reproducible workflows to rule them all: Snakemake
- Fill your containers with software: Docker and Singularity
- Your work for posterity: Zenodo