

Key Contributions

An **observational study** of 20 scientific users of Jupyter notebooks showing:

- **Goals** for notebooks are **not just for messy explorations**
- Scientific users value **many quality attributes (QAs)**, some **in conflict**
- **Tactics** used to meet one QA **often inhibit other QAs**
- Scientists **often use AI** for coding but **lack proper support** to successfully do so

This Talk

1

Validation Support
for AI-Assisted
Software Development

2

Understanding
Scientific Users of
Computational Notebooks

3

Ongoing & Future Work