

Waveframe Labs — Contributor Onboarding Guide

Welcome to **Waveframe Labs**, home of the *Aurora Workflow Orchestration (AWO)* and *Waveframe* research series.

This guide explains how to get oriented, set up your environment, and meet the minimum reproducibility standards for participation.

1. Core Principles

Every repository under Waveframe Labs adheres to three enforcement pillars:

Principle	Description
Reproducibility	All code, reasoning, and results must be independently regenerable from committed artifacts.
Falsifiability	Every claim or output must be testable against a defined manifest or challenge case.
Neurotransparency	Each inference that affects a claim must have a traceable origin (role, artifact, or hash).

Contributors are expected to internalize these before engaging in any development or documentation work.

2. Required Tools

Tool	Purpose
GitHub	Version control and workflow orchestration (repositories, issues, Actions).
Pandoc + TeX	Required to build PDFs automatically from Markdown (used in all AWO projects).
Python 3.10+	Used for local testing, manifest validation, and hashing utilities.
SHA256 utility	Any CLI or script capable of generating deterministic hashes for artifacts.
<i>(Optional)</i> Streamlit / Jupyter	For interactive prototypes or visualization of experiment runs.

No specialized proprietary software is required — only open, verifiable tooling.

3. Your First Tasks

When joining or reviewing a repository:

1. **Read the Method Spec** (`docs/AWO_Method_Spec_v1.2.1.md`)
Understand the compliance levels and required artifacts.
2. **Run a local verification**
 - Check for `SHA256SUMS.txt` in the root.
 - Confirm all ADRs are sequential and cited.
 - Review `/runs/` for at least one attested, passing run.
3. **Create your first controlled contribution**
 - Edit or propose a small improvement (README, ADR draft, minor script).
 - Submit as a Pull Request referencing a falsifiability manifest.
 - Tag your role (e.g., `Reviewer`, `Orchestrator`, `Critic`) in the PR body.
4. **Run the applicable GitHub Actions**
 - PDF build → ensures documentation reproducibility.
 - Root SHA256SUMS workflow → updates integrity registry.

4. Review Roles (Quick Summary)

Role	Responsibility	Reference
Orchestrator	Coordinates reasoning flow and validates procedure.	§3.1 Method Spec
Auditor	Independently verifies artifacts and checksums.	§3.3 Method Spec
Critic / Red Team	Attempts falsification or contradiction.	§3.5a Method Spec
Maintainer	Ensures structural compliance and governance logs are current.	ADR-0017

5. Checkpoints for Acceptance

A contribution will not be merged unless:

- ☒ A valid falsifiability manifest is attached.

- ☒ The corresponding run artifact is frozen and hashed.
 - ☒ Each non-trivial decision has an ADR.
 - ☒ All files are included in `SHA256SUMS.txt`.
 - ☒ Output reproducibility is confirmed via rerun or validator.
 - ☒ No unexplained nondeterminism is present.
-

6. Community Norms

- **Be respectful**, but prioritize precision over politeness.
 - **Assume good intent**, but require good artifacts.
 - **Document before you debate** — speculation without evidence slows everyone down.
 - **Prefer commits over comments** — progress is measurable, opinions are not.
-

Welcome aboard.

If you can prove it, you belong here.

© 2025 Waveframe Labs · Independent Open-Science Research Entity