PPRGS Framework - Setup Checklist

Complete these steps to get PPRGS ready for publication and testing.

Day 1: Repository Setup

| GitHub Repository Creation |
|--|
| Create new GitHub repo: (PPRGS-Framework) |
| Make it public |
| ■ Add description: "Making wisdom the goal: An AI alignment framework for ASI adaptability" |
| Add topics: (ai-safety), (alignment), (asi), (reinforcement-learning), (artificial-intelligence) |
| File Structure Setup |
| Run (./setup.sh) to create directory structure |
| Copy all artifact files to appropriate locations: |
| \square (README.md) \rightarrow root |
| □ (LICENSE) → root |
| |
| \bigcirc CONTRIBUTING.md \rightarrow root |
| \bigcirc CONTRIBUTORS.md \rightarrow root |
| requirements.txt → root |
| ☐ (.gitignore) → root |
| $\boxed{\text{QUICKSTART.md}} \rightarrow \text{docs}/$ |
| |
| rv_calculator.py → metrics/ |
| ees_fduds.py → metrics/ |
| □ (pprgs_agent.py) → implementations/gpt4/ |
| □ (run_test.py) → experiments/experiment_2_enrichment/ |
| <pre>pprgs_arxiv.tex → paper/</pre> |
| Initial Commit |
| git init |
| git add. |
| git commit -m "Initial commit: PPRGS Framework v1.0" |
| git branch -M main |
| git remote add origin git@github.com:YOUR_USERNAME/PPRGS-Framework.git |
| git push -u origin main |

| GitHub Settings |
|--|
| ☐ Enable Issues |
| ☐ Enable Discussions |
| Add repository description |
| Add website (your LinkedIn): https://www.linkedin.com/in/michael-riccardi-b3b41695/ |
| ☐ Create initial labels: |
| • (bug), (enhancement), (documentation), (good first issue) |
| • (experiment-replication), (red-team), (help-wanted) |
| • (security), (platform-aws), (platform-gpt4), (platform-gemini), (platform-grok) |
| Day 2: arXiv Submission |
| Paper Preparation |
| Copy full paper content into paper/pprgs_arxiv.tex |
| ☐ Compile locally: (pdflatex pprgs_arxiv.tex) |
| ☐ Fix any LaTeX errors |
| ☐ Generate bibliography: (bibtex pprgs_arxiv) |
| ☐ Re-compile twice more for references |
| ☐ Check PDF output |
| arXiv Account |
| ☐ Create account at arxiv.org (if needed) |
| ☐ Complete user profile |
| Get endorsement if required (cs.AI usually doesn't need it) |
| Submission |
| ☐ Submit to arxiv.org |
| Primary category: (cs.AI) (Artificial Intelligence) |
| ☐ Cross-list: (cs.CY) (Computers and Society) |
| Cross-list: cs.LG (Machine Learning) |
| ☐ Upload compiled PDF |
| ☐ Double-check all metadata (title, author, abstract) |
| ☐ Submit! |
| ■ Save arXiv ID (format: 2025.XXXXX) |
| Post-Submission |
| Update README.md with arXiv badge and link |

| Update paper citation in all docs with arXiv ID Tweet/post announcement with arXiv link |
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| Day 3: Code Testing |
| Environment Setup |
| Create (.env) file with your OpenAI API key Test virtual environment: (source venv/bin/activate) Verify all packages installed: (pip list) |
| Core Metrics Testing |
| Run (python metrics/rv_calculator.py) Verify demonstration output looks correct Run (python metrics/ees_fduds.py) Verify RC enforcement logic works |
| GPT-4 Agent Testing |
| Run (python implementations/gpt4/pprgs_agent.py) Verify 4 function calls on MRP (task 3) Check R_V calculation makes sense Verify metrics export works |
| Experiment 2 Testing |
| Run baseline: (python experiments/experiment_2_enrichment/run_test.pyagent umstrials 3) Run PPRGS: (python experiments/experiment_2_enrichment/run_test.pyagent pprgstrials 3) Run comparison: (python experiments/experiment_2_enrichment/run_test.pyagent bothtrials 3) Verify success criteria are checked correctly Check results JSON export |
| Bug Fixes |
| Document any bugs found Fix critical issues Create GitHub issues for non-critical bugs Commit fixes: (git commit -m "Fix: [description]") Push: (git push) |

Day 4: Community Outreach

| Alignment Forum |
|---|
| ☐ Create account (if needed) |
| ■ Write post summarizing PPRGS |
| ☐ Include arXiv link |
| ☐ Include GitHub link |
| Post in AI Alignment category |
| Respond to comments |
| LessWrong |
| Cross-post or link to Alignment Forum post |
| ☐ Engage in technical discussions |
| Address counterarguments constructively |
| Twitter/X |
| Write thread (8-12 tweets) covering: |
| Problem (over-optimization paradox) |
| • Solution (PPRGS framework) |
| Key innovation (R_V formula with multiplication) |
| • Results (87% higher R_V in Exp 2) |
| Call to action (replicate experiments) |
| ☐ Include arXiv link |
| ☐ Include GitHub link |
| ☐ Tag relevant researchers/organizations |
| ☐ Use hashtags: #AISafety #AIAlignment #MachineLearning |
| LinkedIn |
| Write professional post about PPRGS |
| ☐ Target AI safety professionals |
| Link to arXiv and GitHub |
| ■ Mention it's open for collaboration |
| Email Outreach (Optional for Day 4, can wait until Day 5-7) |
| ☐ Draft email to key researchers (use template from publication plan) |
| ■ Send to 3-5 researchers for initial feedback |

Day 5-7: Iteration & Improvement

| Community Engagement |
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| Respond to all GitHub issues within 24 hours |
| Answer questions on Alignment Forum/LessWrong |
| ☐ Engage on Twitter |
| Update FAQ based on common questions |
| Documentation Improvements |
| Add any missing clarifications to README |
| ☐ Create diagrams if people request them |
| Add example outputs/screenshots |
| ☐ Improve error messages based on user reports |
| Code Refinements |
| Fix bugs reported by early testers |
| Add better error handling |
| ☐ Improve logging/debugging options |
| Add progress bars for long-running experiments |
| First Replication Attempt |
| Help first person trying to replicate |
| Document their process |
| Fix any blockers they encounter |
| Celebrate their success publicly! |
| Week 2: Platform Expansion |
| AWS Bedrock Implementation (Optional) |
| ☐ Complete CloudFormation templates |
| ☐ Test deployment |
| Document setup process |
| Create tutorial |
| Gemini Implementation (Optional) |
| ☐ Complete multimodal P₂ implementation |
| Test with images/video |
| Document results |

| Experiment 1 & 4 (Optional) |
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| ☐ Build remaining experiment environments |
| Run initial tests |
| ☐ Document results |
| National O. National |
| Metrics & Milestones |
| Week 1 Goals |
| arXiv paper published: Yes/No |
| ☐ GitHub stars: Target 50+ |
| Experiment 2 replications: Target 1+ |
| ☐ Community posts: Target 3+ platforms |
| Week 2 Goals |
| ☐ GitHub stars: Target 100+ |
| ☐ Independent replications: Target 3+ |
| Pull requests: Target 2+ |
| ☐ Media mentions: Target 1+ |
| |
| Month 1 Goals |
| All 4 experiments validated |
| Cross-platform validation started |
| Conference submission: Yes/No |
| ☐ Active contributors: Target 5+ |
| Contact Information Updates |
| Update these with your actual handles once created: |
| ☐ GitHub username in all docs |
| ☐ Discord server link (if you create one) |
| ☐ Twitter handle (if you create dedicated account) |
| Update all placeholder URLs |
| Critical Reminders |
| Before First Push |
| Remove any API keys from code |

| Check (.gitignore) is working |
|--|
| ☐ Verify no sensitive data in commits |
| Double-check LICENSE is correct |
| Before arXiv Submission |
| Spell-check entire paper |
| ■ Verify all citations are correct |
| ☐ Check all equations render properly |
| Read abstract out loud (catch errors) |
| Before Experiment Runs |
| Set API rate limits appropriately |
| ■ Monitor costs (especially on AWS) |
| ■ Have backup of results |
| Document all hyperparameters |
| Emergency Contacts |
| If something goes wrong: |
| GitHub issues: For code problems |
| • arXiv help: help@arxiv.org |
| • OpenAI support: For API issues |
| Community: Alignment Forum for conceptual questions |
| Progress Tracker |
| Current Phase : [] Day 1 [] Day 2 [] Day 3 [] Day 4-7 [] Week 2+ |
| Blockers: (List any issues preventing progress) |
| Wins: (Celebrate successes!) |
| Next Action : (What's the very next thing to do?) |
| |

Remember: Ship fast, iterate publicly, engage with feedback. The window is closing—let's make this count!

Questions? <u>mike@mikericcardi.com</u>