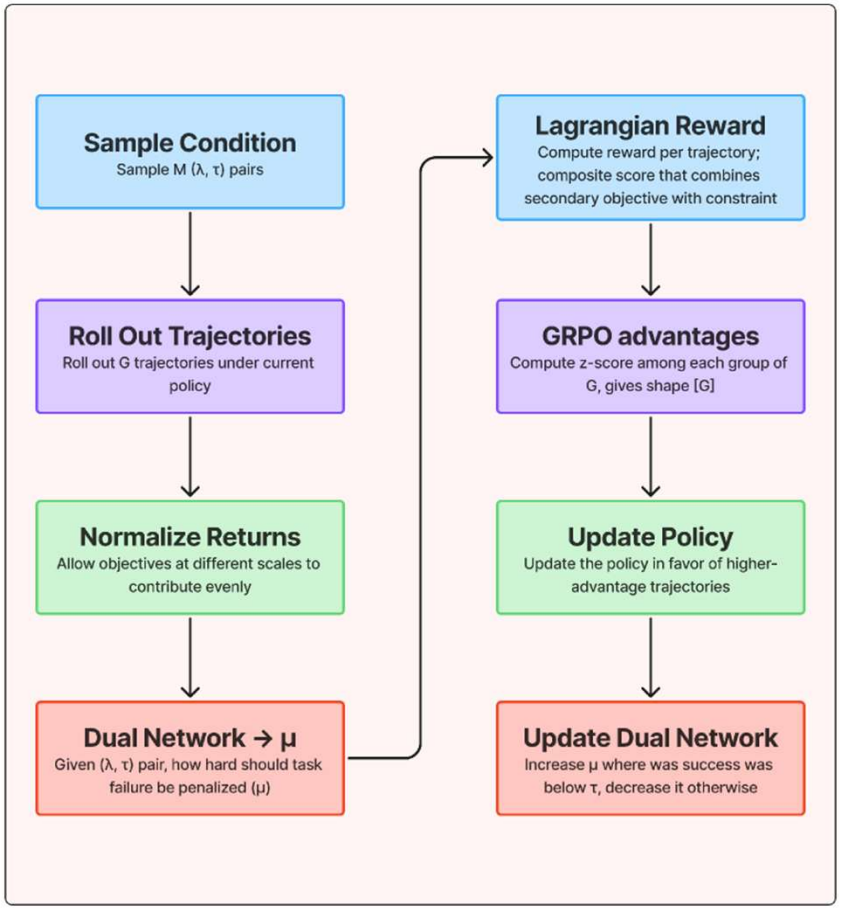
WEEK 9 UPDATE

CODY HILL • 7/20/26

DR. YUE WANG & ZAIN FARHAT



Problem Overview

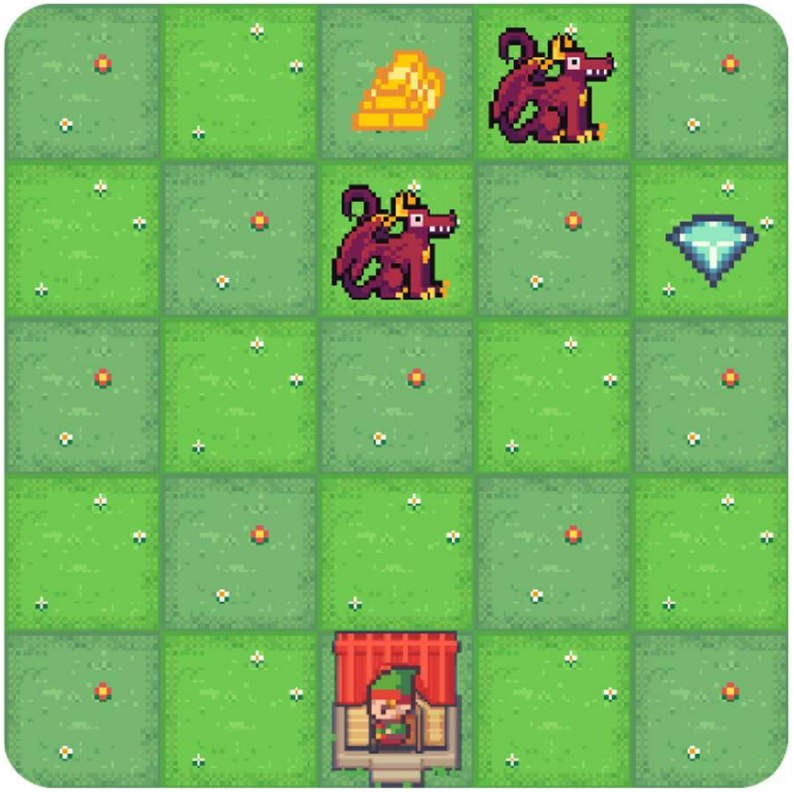


Our Contribution

- GRPO with task-success floor
- Optimized secondary objectives
- Policy π with maximum returns

Project Status

- Toy environments validated
- How to measure with VLA?



Progress: LIBERO

- Standard LIBERO inadequate
- No extremes
- Affords one tradeoff
- => Modified benchmark



Progress: The Issue



Toy Exploration
Random behavior



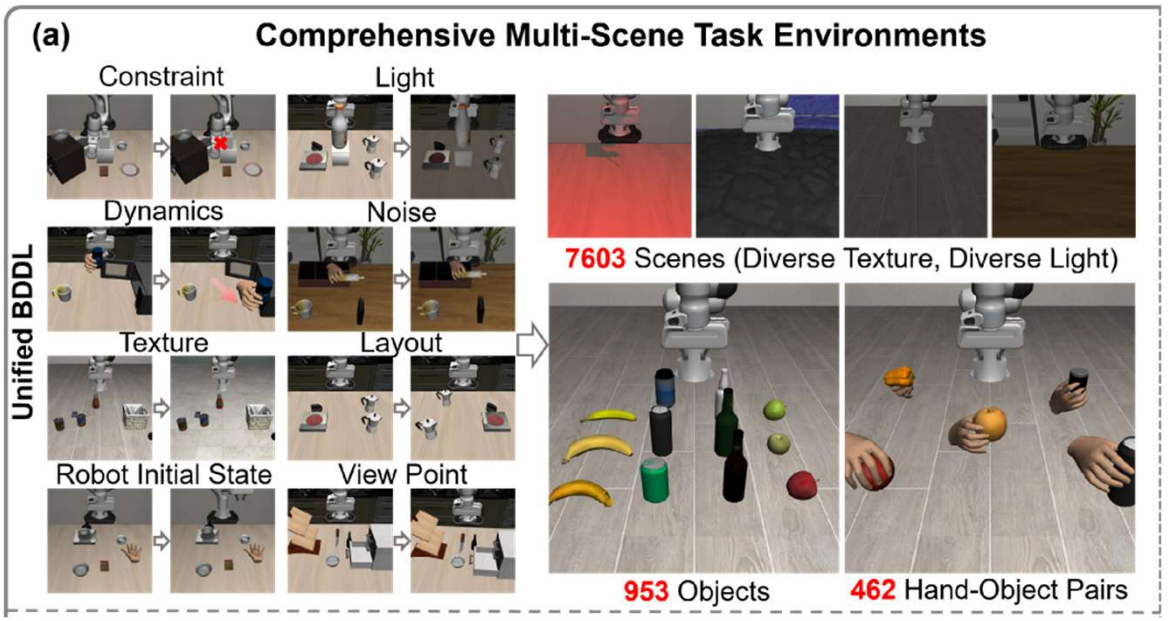
LIBERO Failure Sample
Shallow behavior



LIBERO Success Sample
Shallow behavior

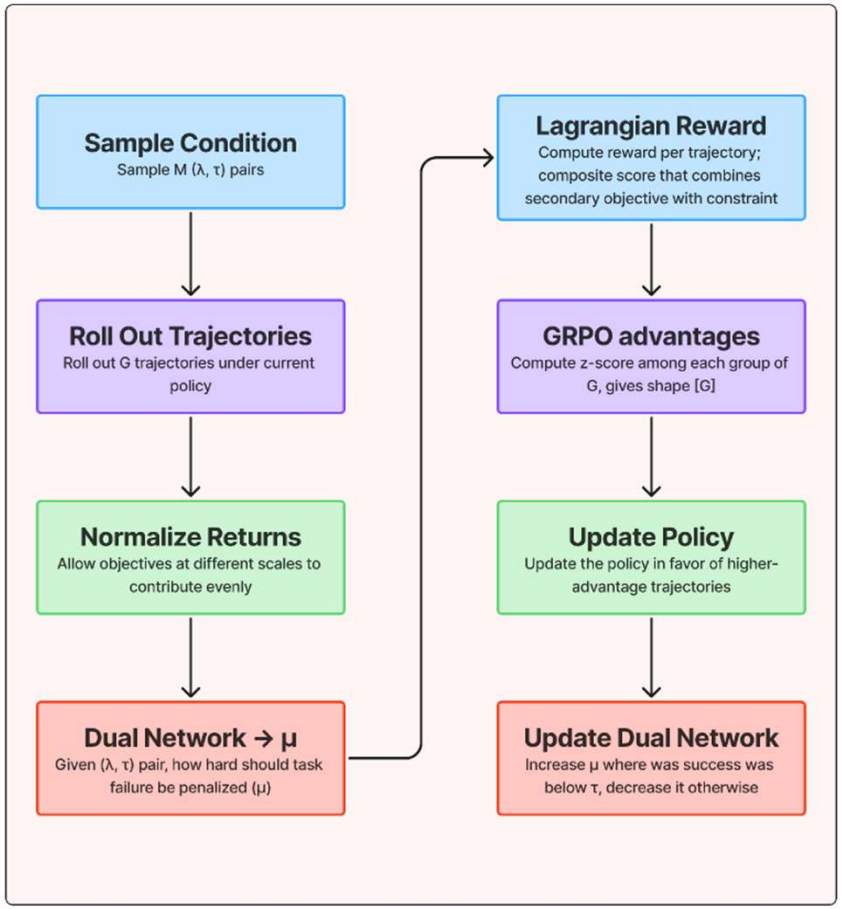
Progress: New Environment

- LIBERO-Safety
- ~20k demos
- High variation



Progress: Revised Approach

- Check dimensionality
- SFT; LIBERO-Safety demos
- Post-training
- Full evaluation



Next Steps

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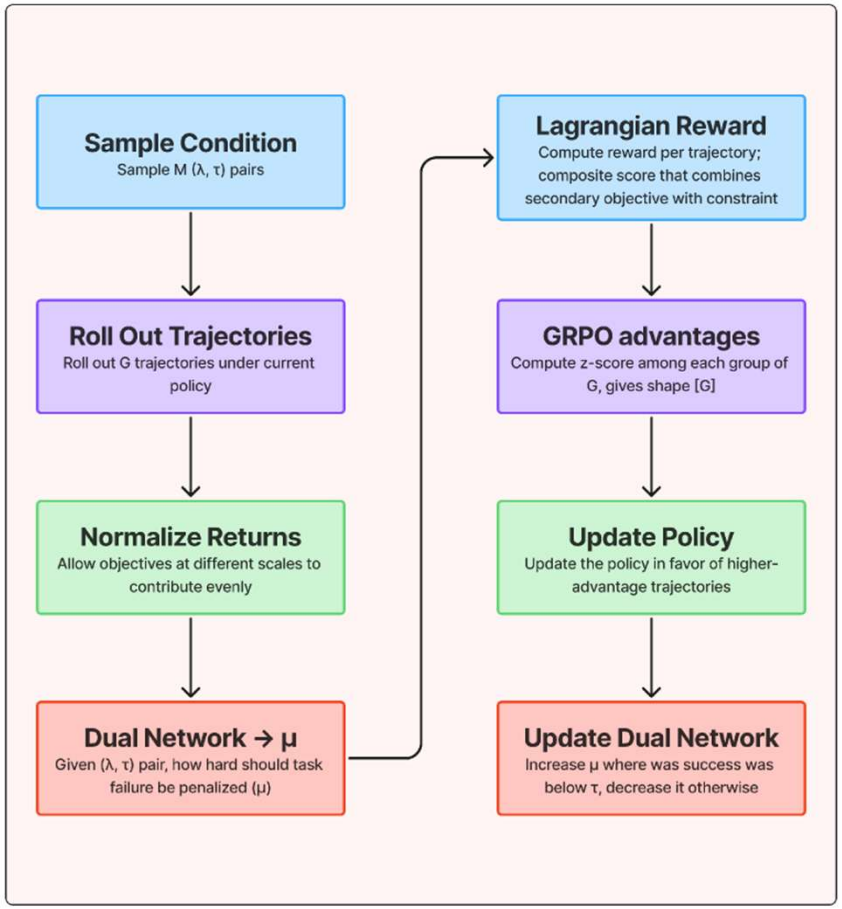
- Validate new environment
- Work on REU poster
- Work on REU report



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