Project outline – Most tasks involve creating or updating public artifacts.

Description	Type	Deadline	Postponements	Status	Est. 5 %	Est. mode	Est. 95 %	Date start	Date end	Actual duration
Iteration 1	Iteration	2019-09-13			36:28	40:47	50:26			
Sketch how to adapt SupAmp to RL.	Task									
Sketch how to model supervisor failures.	Task									
Create an empty Draft Basis and fill in as far as possible.	Task									
Announce my project on LW or MxD.	Task									
Announce search for writing partner on LW or MxD.	Task									
Paul's code for SupAmp runs on my machine and I roughly know my way around it.	Task									
Read and summarize relevant literature.	Task									
Iteration 2	Iteration									
Study missing ML basics.	Task									
Design how to adapt SupAmp to RL.	Task									
Fill in Draft Basis further.	Task									
Hopefully found writing partner(s).	Task									
Iteration 3	Iteration									
Adapted SupAmp to RL.	Task									
Run some experiments from CSASupAmp with RL instead of SL.	Task									
Write short article about the differences between SupAmp and ReAmp.	Task									
Iteration 4	Iteration									
Design experiments for ReAmp with overseer failures.	Task									
Design changes to ReAmp to accommodate experiments.	Task									
Iteration 5	Iteration									
Adapt ReAmp code.	Task									
Run experiments.	Task									
Finish filling in Draft Basis.	Task									
Iteration 6	Iteration									
Revisit literature.	Task									
Make writing plan.	Task									
Make build pipeline for article.	Task									
Iteration 7	Iteration									
Write draft.	Task									
Revise draft.	Task									
Solicit feedback.	Task									
Iteration 8	Iteration									
Write final version.	Task									
Submit article.	Task									

Abbreviations/Glossary/Bibliography

CoR	Booth et al.: The Craft of Research
CSASupAmp	Christiano et al.: Supervising strong learners by amplifying weak experts
Est. 5 %	5th percentile of my estimated duration distribution/leftmost point in triangle distribution
Est. mode	mode of my estimated duration distribution
Est. 95 %	95th percentile of my estimated duration distribution/rightmost point in triangle distribution
Draft Basis	A template derived from CoR, p. 175, which when filled in completely, provides all the information necessary for planning a draft. Includes the structure of the argument.
LW	LessWrong
MxD	MIRIxDiscord
RL	reinforcement learning
ReAmp	SupAmp adapted to RL
SL	supervised learning
SupAmp	The system for iterated distillation and amplification using supervised learning from CSASupAmp

Estimates preprocessed for Dugless

	Est. mode	Est. 5 %	Est. 95 %	Est. mode ratio
	2447	2188	3026	0.309069212410501
	120	60	180	0.5
	180	90	360	0.333333333333333
	60	30	90	0.5
	120	60	300	0.25
	15	10	30	0.25
	120	30	360	0.272727272727273
	60	15	360	0.130434782608696
	30	15	90	0.2
	30	15	60	0.333333333333333
	30	15	60	0.333333333333333
	30	15	60	0.333333333333333
	120	60	360	0.2
	30	15	60	0.333333333333333
	120	0	360	0.333333333333333
	30	15	60	0.333333333333333
	90	30	240	0.285714285714286
	240	90	480	0.384615384615385
	780	540	1500	0.25
	90	45	150	0.428571428571429