NICK WALKER

nswalker@cs.uw.edu nickwalker.us

github.com/nickswalker

		merwarker.us
EDUCATION		0010
Ph.D. Computer Science	University of Washington – Seattle, WA	2018–present
M.S. Computer Science	University of Washington – Seattle, WA	2018-2020
B.S.A. Computer Science	The University of Texas – Austin, TX	2014–18
EXPERIENCE	TT	0040
Graduate Research Assistant	University of Washington	2018–present
	ncentration, with user studies resulting in 7+ co	
Research Intern	NVIDIA	2022
0	peration assistance for robot manipulation in o	lutter
SKILLS		
	HTML, CSS, Javascript, Typescript, Answer Set Prog	
	, Scipy, OpenCV, Pandas, ROS 1 & 2, Isaac Sim, D3.js,	
	is, mixed methods, user research, Premiere, Illustrat	or
PROJECTS		
Assistive Teleoperation for Clut		
	rface to assist robot teleoperators picking and	
_	tor workload in a 20 person study with custom	
	ormance metrics using generalized linear mix	
_	oot Behaviors During Task Execution	attributions.nickwalker.us
_	ehaviors, learned mixture of gaussian models	
	ptimization formulation for expressive motion	-
	v with 50+ participants to confirm model effica	су
Measuring Perceptions of a Cur		
-	nnaire for the perception of curiosity using fac	•
_	ette studies with 100+ participants to understa	
	obot transparency on user acceptance of robot	s that learn
0	e to Control Robot Manipulators	
	l interviewed 20 novice 3D mouse users to understand challenges	
	izations and signal processing for robot teleop	
 Mentored graduate student to 	develop and release software package, write a	n award-winning paper
Narration of Robot Experience t	o Assist Bystander Failure Understanding	
 Guided team studying LLM-base 	ased system for summarizing multi-minute ro	bot trajectories
 Showed that generated narrat 	ions improve failure localization speed and ac	curacy
Human Help to Reduce the Cost	of In-the-Wild Mobile Robot Deployments	wandering.nickwalker.us
 Developed C++ navigation behavior 	avior, deployed on low-power robot in a buildi	ng for day-long sessions
• Demonstrated that minutes o	f assistance can reduce cost of user studies wit	h long term autonomy
• Wrote about and photographe	d the deployment for a story in IEEE Spectrum	
Supervision and Monitoring Int	terfaces for Picking Workcell robotic-mani	pulation.sciencehub.uw.edu

- Observed 6 external system evaluations to understand challenges for system's human supervisors
- Developed methods and interfaces for rapid failure triage by remote humans