

# Yutong Dai

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## EDUCATION

<b>Lehigh University</b> , PA, USA <i>Ph.D.</i> in Industrial and Systems Engineering	Sept.2019 – Dec.2023
<b>University of Illinois at Urbana-Champaign</b> , IL, USA <i>M.S.</i> in Statistics	Sept.2017 – May.2019
<b>Sichuan University</b> , Chengdu, China <i>B.S.</i> in Mathematics with honors (concentration in Statistics)	Sept.2013 – Jun.2017

## WORKING EXPERIENCE

<b>Salesforce</b> <i>Applied Scientist</i> → <i>Senior Applied Scientist</i>	Jan.2024 – Now Palo Alto, CA
<ul style="list-style-type: none"><li>• <b>Computer-Use Agents.</b> Built computer-use agents to achieve strong performances in academic and enterprise benchmarks by improving <b>grounding, planning, and action space</b>; built a Salesforce computer-use benchmark (SCUBA) to comprehensively evaluate agents in enterprise CRM tasks.</li><li>• <b>On-device Blip-3.</b> Built on-device versions of the multi-modal large language model Blip-3 via quantization; supported field service use-cases.</li><li>• <b>Text-to-Flow Generation.</b> Built proprietary models for generating complex <a href="#">Salesforce Flow</a> using natural languages. The product is general availability (GA) on 02/2025 and nearly 8,000 customers enrolled in 2 months.</li></ul>	
<b>Adobe</b> <i>Machine Learning Engineer Intern</i>	May.2023 – Aug.2023 San Jose, CA
<ul style="list-style-type: none"><li>• Designed a multi-objective optimization algorithm to production data to improve both the ranking lists quality and diversity; with hit@k metric increased from 8% to 20% and the diversity score increased by up to 43%.</li></ul>	

<b>Salesforce</b> <i>Research Intern</i>	May.2022 – Aug.2022 Palo Alto, CA
<ul style="list-style-type: none"><li>• Proposed a novel method to tackle <i>data heterogeneity</i> with the class imbalance in <i>personalized Federated Learning</i> by combining the uniformity and semantics of class prototypes; published in AAAI2023.</li></ul>	

## SELECTED PROJECTS & PUBLICATIONS

### Computer/Browser-Use Agents

My works focus on two aspects: 1) improving the agents' performance in terms of the task success rates, efficiency, and robustness; 2) building evaluation tasks and a reinforcement learning environment for agents.

<b>SCUBA: Salesforce Computer Use Benchmark</b> <a href="#">[project page]</a> <a href="#">[media coverage]</a>	2025
<ul style="list-style-type: none"><li>• Built on a realistic and live Salesforce sandbox environment, this benchmark is designed to evaluate computer/browser-use agents' performances on the enterprise CRM tasks via three dimensions: accuracy, latency, and costs.</li></ul>	
<b>WALT: Web Agents that Learn Tools</b> <a href="#">[tech report]</a> <a href="#">[media coverage]</a>	2025
<ul style="list-style-type: none"><li>• By reverse-engineering website functionality into reusable tools, this work advocates shifting the sequences of fragile low-level GUI actions to reliable tool invocation. WALT achieves the SOTA performance with fewer steps in VisualWebArena benchmark, and the average success rate is 52.9%. This established a robust and efficient paradigm for browser automation.</li></ul>	
<b>CoAct-1: Computer-using Agents with Coding as Actions</b> <a href="#">[tech report]</a> <a href="#">[media coverage]</a>	2025
<ul style="list-style-type: none"><li>• To address the efficiency and reliability issues for complex and long-horizon tasks, we introduce a more robust and flexible agentic paradigm: combining GUI-based control with direct programmatic execution. The approach is the first to achieve more than 60% success rates on the OSworld benchmark and remains SOTA until 09/2025.</li></ul>	
<b>GTA-1: GUI Test-time Scaling Agent</b> <a href="#">[tech report]</a> <a href="#">[media coverage]</a>	2025
<ul style="list-style-type: none"><li>• We improve the computer-use agents' planning via test-time scaling to select the most appropriate action proposal; meanwhile, the agents' grounding ability is boosted via the reinforcement learning (RL), the simple rewarding design. GTA-1 achieve more than 60% success rates on the OSworld benchmark and remains SOTA until 09/2025.</li></ul>	