

# Bryan Wang

Research Scientist · Adobe Research

Ph.D. in Computer Science · University of Toronto

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## SUMMARY

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Human-AI interaction researcher who ships AI-powered tools that augment human creativity and capability, with a recent focus on generative AI for video and audio. End-to-end builder across ML, backend, frontend, and interaction design.

## EXPERIENCE

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### Research Scientist · Adobe Research

2024 to Present

Leading 0→1 research on AI creative tools, from problem framing to prototyping and shipping, in close collaboration with Product, Design, and Engineering.

- Led Precision Flow and contributed to Generate Soundtrack, both shipped in Adobe Firefly
- Mentored 4 PhD interns, published 6 peer-reviewed papers, and filed 3 patents

### Research Intern · Meta Reality Labs - Research

Summer 2023

Created LAVE, an LLM-powered video editing agent that plans, searches, and edits footage through natural conversation.

### Student Researcher · Google Research

Summer 2022

Among the first to show LLMs could enable conversational interaction with GUI through prompting alone, no task-specific training required.

### Research Intern · Adobe Research

Summer 2021, Winter 2022

Built ROPE, an NLP-driven tool that automatically condenses voice recordings into social-media-ready audio stories while preserving narrative flow.

### Research Intern · Google Research

Summer 2020, Winter 2021

Created a 110K-summary, 22K-screen multimodal dataset and trained vision-language models to automatically summarize mobile UIs.

## SHIPPED PRODUCTS

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### Precision Flow · Adobe Firefly · Research Lead (0→1)

2026

A Firefly image editing feature that renders every edit as a continuous spectrum. Glide a slider from A to B and land anywhere in between.

### Generate Soundtrack · Adobe Firefly · Contributor

2025

A Firefly audio tool that generates commercially-safe instrumental soundtracks from a text prompt or video. Music that fits your footage, automatically.

## SELECTED PUBLICATIONS

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1,400+ citations · h-index 16 · See full list on Google Scholar.

**Vidmento: Creating Video Stories Through Context-Aware Expansion With Generative Video** CHI 2026

Catherine Yeh, Anh Truong, Mira Dontcheva, [Bryan Wang](#)

**VidTune: Creating Video Soundtracks with Generative Music and Contextual Thumbnails** CHI 2026

Mina Huh, Ailie C. Fraser, Dingzeyu Li, Mira Dontcheva, [Bryan Wang](#)

**MapStory: Prototyping Editable Map Animations with LLM Agents** UIST 2025

Aditya Gunturu, Ben Pearman, Keiichi Ihara, Morteza Faraji, [Bryan Wang](#), Rubaiat Habib Kazi, Ryo Suzuki

**LAVE: LLM-Powered Agent Assistance and Language Augmentation for Video Editing** IUI 2024

[Bryan Wang](#), Yuliang Li, Zhaoyang Lv, Haijun Xia, Yan Xu, Raj Sodhi

**Promptify: Text-to-Image Generation through Interactive Prompt Exploration with Large Language Models** UIST 2023

Stephen Brade, [Bryan Wang](#), Mauricio Sousa, Sageev Oore, Tovi Grossman

**Enabling Conversational Interaction with Mobile UI using Large Language Models** CHI 2023

[Bryan Wang](#), Gang Li, Yang Li

**Soloist: Generating Mixed-Initiative Tutorials from Existing Guitar Instructional Videos Through Audio Processing** CHI 2021

[Bryan Wang](#), Meng Yu Yang, Tovi Grossman

## EDUCATION

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**Ph.D. in Computer Science** · University of Toronto · Advisor: Tovi Grossman 2024

*Thesis: Human-AI Systems for Creating, Consuming, and Interacting with Digital Content*

**M.Sc. in Computer Science** · University of Toronto · Advisor: Tovi Grossman 2020

**B.Sc. in Computer Science** · National Taiwan University 2018

## SELECTED HONOURS

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**Jazzki Human-Machine Creativity Award, First Place** · SynthScribe 2024

**Wolfond Scholarship** · University of Toronto · \$5,000 CAD 2023 to 2024

**DiDi Graduate Student Award in Computer Science** · University of Toronto · \$10,000 CAD, two years 2021 to 2023

**Apple AI/ML Fellowship Nominee** · University of Toronto · one of three at the school 2022

## SKILLS

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**RESEARCH AREAS**      Human-AI Interaction · Interaction Design · Creativity Support Tools · Video & Audio Production · LLM Agents & UI Automation

**ENGINEERING**      Python · TypeScript / React / Next.js / CSS · PyTorch · LLM tooling