

# TINGBO HOU

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## Work Experience

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### Meta, GenAI

May 2024 – Present

*AI Research Scientist*

*Menlo Park, CA*

- TL of Video Generation in the AI Foundation team. Leading multiple projects on text-to-video generation and its applications.
- Research highlights:
  - \* Text-to-video generation: [Movie Gen](#), [LinGen](#)
  - \* Transformer auto-encoder: [ViToK](#)
  - \* Real-time video generation: [StreamDiT](#)

### Google

March 2019 – May 2024

*Senior Staff Software Engineer, TLM*

*Mountain View, CA*

- Led a small team in Research and Core ML, working on on-device computer vision and image generation.
- Research highlights:
  - \* Text-to-image generation: [Imagen 3](#), [MobileDiffusion](#) (ECCV 24)
  - \* One-step diffusion: [EM Distillation](#) (NeurIPS 24), [UFOGen](#) (CVPR 24), [SIDDMs](#) (NeurIPS 23)
  - \* Personalization and finetuning: [HyperDreamBooth](#) (CVPR 24), [PRDP](#) (CVPR 24), [Taming Encoder](#)
- Research to production:
  - \* Photos / Pixel: Photo Unblur, Best Take
  - \* YT Shorts Effects: NeverBlink, AlwaysSmile, Grumpy, etc.
  - \* Meet: Studio Look, Background Replace
  - \* Cloud: Imagen

### Didi Research America

May 2017 – March 2019

*Staff Software Engineer, TLM*

*Mountain View, CA*

### Google

October 2012 – May 2017

*Senior Software Engineer*

*Mountain View, CA*

### Kodak Research Labs

June 2009 – August 2009

*Research Intern*

*Rochester, NY*

### Siemens Corporate Research

June 2008 – August 2008

*Research Intern*

*Princeton, NJ*

## Recent Publications

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- [StreamDiT: Real-Time, Infinite Video Generation for Interactive Applications](#), 2025
- [Movie Weaver: Tuning-Free Multi-Concept Video Personalization with Anchored Prompts](#), 2025
- [Learnings from Scaling Visual Tokenizers for Reconstruction and Generation](#), 2025
- [LinGen: Towards High-Resolution Minute-Length Text-to-Video Generation with Linear Computational Complexity](#), 2024
- [Movie Gen: A Cast of Media Foundation Models](#), 2024
- [Imagen 3](#), 2024
- [EM Distillation for One-step Diffusion Models](#), NeurIPS 2024
- [3D Congealing: 3D-Aware Image Alignment in the Wild](#), ECCV 2024
- [MobileDiffusion: Subsecond Text-to-Image Generation on Mobile Devices](#), ECCV 2024

- [PRDP: Proximal Reward Difference Prediction for Large-Scale Reward Finetuning of Diffusion Models](#), CVPR 2024
- [UFOGen: You Forward Once Large Scale Text-to-Image Generation via Diffusion GANs](#), CVPR 2024 (Spotlight)
- [HyperDreamBooth: HyperNetworks for Fast Personalization of Text-to-Image Models](#), CVPR 2024
- [DreamInpainter: Text-Guided Subject-Driven Image Inpainting with Diffusion Models](#), 2023
- [HiFi Tuner: High-Fidelity Subject-Driven Fine-Tuning for Diffusion Models](#), 2023
- [Taming Encoder for Zero Fine-tuning Image Customization with Text-to-Image Diffusion Models](#), 2023
- [Semi-Implicit Denoising Diffusion Models \(SIDDMs\)](#), NeurIPS 2023
- [Towards Authentic Face Restoration with Iterative Diffusion Models and Beyond](#), ICCV 2023
- [Multiscale Representation for Real-Time Anti-Aliasing Neural Rendering](#), ICCV 2023

## Education

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- Ph.D. in Computer Science, Stony Brook University, 2012
- M.E., Chinese Academy of Sciences, 2007
- B.S., University of Science and Technology of China, 2004

## Misc

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- Co-organizer of the [Workshop on Efficient and On-Device Generation \(EDGE\)](#), in conjunction with CVPR 2024 and 2025
- Google Tech Impact Award, 2023
- Research PA Impact Award, 2023
- Core Tech Impact Award, 2022
- Catacosinos Fellowship for Excellence in Computer Science, 2010