# Anh Nguyen

PhD Student at **Johns Hopkins University**

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## Research Statement

My long-term goal is to build systems that can *understand, reason, plan*, and *develop physical intuition* about the world while remaining *efficient, scalable, and controllable*.

Toward **superhuman intelligence** through **efficient, scalable, and controllable** generative and world models.

Toward this goal, my work on *one-step* generative modeling, spanning both *pretraining* and *distillation* (ECCV, NeurIPS, and ICCV), enables real-time, high-fidelity synthesis, while my work on *multimodal representation* (CVPR and ICCV) uncovers internal semantics for zero-shot, fine-grained control.

## Education

**Johns Hopkins University** *Aug 2026 – expected 2030*
Doctor of Philosophy, Electrical and Computer Engineering Advisor: Professor Vishal M. Patel
Research: **Generative and World Models**

## Research Experience

**Qualcomm AI Research** *3 yrs 1 mo · Aug 2023 – Aug 2026*
Predoctoral Researcher

- **Five publications** in generative modeling at ECCV, CVPR, ICLR, NeurIPS, and ICCV.
- **Two U.S. patents**.
- Recipient of the 2025 **Outstanding Resident** in Research and Applied Demo Award, Qualcomm AI Residency Program.
- Advised by Principal Scientist Dr. Anh Tran. Completed intensive PhD-level training in a selective research residency, conducting research from problem formulation and experimental design to rigorous evaluation and publication.

## Selected Publications

(*) denotes equal contribution

**ECCV** POSTER SLIDES
**Cross-Space Distillation: Teaching One-Step Students with Modern Diffusion Teachers**
**Anh Nguyen**[*], Ngan Nguyen[*], Duc Vu[*], Trung Dao, Viet Nguyen, Quan Dao, Kien Nguyen, Chi Tran, Phong Nguyen, Khoi Nguyen, Cuong Pham, Dimitris Metaxas, Vishal M Patel, and Anh Tran
*In European Conference on Computer Vision, 2026*
QUALCOMM | JOHNS HOPKINS UNIVERSITY | RUTGERS UNIVERSITY | UNIVERSITY OF WISCONSIN-MADISON

**NeurIPS** POSTER SLIDES
**Improved Training Technique for Shortcut Models**
**Anh Nguyen**[*], Viet Nguyen[*], Duc Vu, Trung Dao, Chi Tran, Toan Tran, and Anh Tran
*In The Thirty-nine Annual Conference on Neural Information Processing Systems, 2025*
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**CVPR** POSTER SLIDES
**Anti-I2V: Safeguarding your photos from malicious image-to-video generation**
Duc Vu, **Anh Nguyen**, Chi Tran, and Anh Tran
*In IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2026*
QUALCOMM

**ICLR**
**Revisit Visual Prompt Tuning: The Expressiveness of Prompt Experts**
**Anh Nguyen**[*], Minh Le[*], Huy Nguyen, Chau Nguyen, Anh Tran, and Nhat Ho
*In International Conference on Learning Representations, 2026*
QUALCOMM | THE UNIVERSITY OF TEXAS AT AUSTIN

**ICCV** POSTER SLIDES
**Supercharged One-step Text-to-Image Diffusion Models with Negative Prompts**
**Anh Nguyen**[*], Viet Nguyen[*], Trung Dao, Khoi Nguyen, Cuong Pham, Toan Tran, and Anh Tran
*In International Conference on Computer Vision, 2025*
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