

Binh NGUYEN

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Title Mr.
Mailing address Bong Sao St., Binh Dong Ward, Ho Chi Minh City, Vietnam
Current position AI Research Resident, Qualcomm AI Research, Vietnam

RESEARCH INTERESTS

Embodied AI • Personalized Systems • User Modeling • Deep Generative Models

My research aims to build embodied AI that understands a specific person and adapts to them over time. My past work develops deep generative models that learn a particular person, object, or style from only a few examples, and that extend a pretrained model to new tasks by understanding its internal structure. Moving forward, I aim to bring this personalization into the physical world: embodied agents that build a memory of a user from everyday observation, infer their preferences and intent, and decide when and how to assist.

ACADEMIC QUALIFICATIONS

VNU-HCM University of Science Ho Chi Minh City, Vietnam
B.S. in Information Technology (Honors Program) Awarded 2024

- GPA 8.83/10 (3.72/4.00); graduated in the top 1% of the faculty.
- Thesis: *Generative AI for Human Creativity*; graded 10/10 by the thesis committee. [\[Thesis\]](#)
- Advisors: [Prof. Minh-Triet Tran](#) and [Dr. Trung-Nghia Le](#).

EMPLOYMENT HISTORY

Qualcomm AI Research Ho Chi Minh City, Vietnam
AI Research Resident Apr 2025 – Present

- Mentor: [Dr. Khoi Nguyen](#).
- Post-training enhancement and controllable generation for visual generative models.
- Test-time scaling for visual autoregressive models (ScaleByScale, under review).
- Feed-forward articulated 3D object generation (ArtCrafter, NeurIPS 2026).

VinAI Research Ho Chi Minh City, Vietnam
AI Research Resident Aug 2024 – Mar 2025

- Mentors: [Dr. Khoi Nguyen](#) and [Dr. Anh Tran](#).
- Fine-grained personalization for visual autoregressive models (CSD-VAR, ICCV 2025).
- Continued at Qualcomm AI Research following its acquisition of VinAI's generative AI division.

Software Engineering Lab, VNU-HCM University of Science Ho Chi Minh City, Vietnam
Research Assistant Jun 2023 – Jul 2024

- Interactive art-style transfer with diffusion models for non-expert users (ARtVista, CHI 2024 LBW).

SELECTED PUBLICATIONS

* denotes equal contribution.

- [1] Minh Canh Tu*, [Quang-Binh Nguyen*](#), Khoi Nguyen. *ArtCrafter: Feed-Forward Generation of Articulated 3D Object with Analytic Joint Derivation*. Advances in Neural Information Processing Systems (NeurIPS), 2026.
- [2] Trong-Vu Hoang*, [Quang-Binh Nguyen*](#), Thanh-Toan Do, Tam V. Nguyen, Minh-Triet Tran, Trung-Nghia Le. *ShowFlow: From Robust Single Concept to Condition-Free Multi-Concept Generation*. **Neurocomputing**, 2026 (Q1, IF 6.7). [\[Paper\]](#)

[3] Quang-Binh Nguyen, Minh Luu, Quang Nguyen, Anh Tran, Khoi Nguyen. *CSD-VAR: Content-Style Decomposition in Visual Autoregressive Models*. IEEE/CVF International Conference on Computer Vision (ICCV), 2025. [Paper]

[4] Quang-Binh Nguyen*, Minh Canh Tu*, Khoi Nguyen. *ScaleByScale: Understanding and Improving Test-Time Scaling for Visual Autoregressive Models*. Under review. [Paper]

[5] Trong-Vu Hoang*, Quang-Binh Nguyen*, Duy-Nam Ly, Khanh-Duy Le, Tam V. Nguyen, Minh-Triet Tran, Trung-Nghia Le. *ARtVista: Gateway To Empower Anyone Into Artist*. Extended Abstracts of the ACM CHI Conference on Human Factors in Computing Systems (Late-Breaking Work), 2024. [Paper]

PATENT APPLICATIONS

[1] *Test-Time Scaling for Visual Autoregressive Models*. PCT International Application No. PCT/US2026/023462, filed Apr 2026. Lead inventor.

[2] *ArtCrafter: Feed-Forward Articulated Object Generation with Analytic URDF Derivation*. Vietnam Patent Application No. 1-2026-03659, filed May 2026. Co-lead inventor. US filing in preparation.

HONORS AND AWARDS

Top 5 Excellent Research Residents of the Year <i>Qualcomm AI Research; recognized for research contribution and CEO demo</i>	2025
Odon Vallet Scholarship for Excellent Undergraduate Research Students <i>The Scientific and Educational Meeting Vietnam Organisation</i>	2024
Academic Excellence Scholarship (Top 5%) <i>VNU-HCM University of Science</i>	2023, 2024
Odon Vallet Scholarship for Excellent High School Students <i>The Scientific and Educational Meeting Vietnam Organisation</i>	2020
Honorable Prize, Vietnam Olympiad in Informatics <i>Vietnam Ministry of Education and Training</i>	2020

PROFESSIONAL SERVICE

Conference reviewer: CVPR 2026, AAAI 2026, NeurIPS 2026
Journal reviewer: IEEE TPAMI

SKILLS

Programming: Python, C/C++ **Tools:** PyTorch, Linux, Git, SLURM **English:** IELTS 7.0

REFEREES

Dr. Khoi Nguyen Staff Research Scientist Qualcomm AI Research, Vietnam khoi@qti.qualcomm.com	Dr. Anh Tran Principal Research Scientist Qualcomm AI Research, Vietnam anhtra@qti.qualcomm.com
Prof. Minh-Triet Tran Associate Professor VNU-HCM University of Science, Vietnam tmtriet@fit.hcmus.edu.vn	Dr. Trung-Nghia Le Senior Lecturer VNU-HCM University of Science, Vietnam ltnghia@fit.hcmus.edu.vn