Trong Thang Pham

CONTACT INFORMATION

975 S Sports Fan Dr
Fayetteville, AR 72701
(479) 332-8319

tp030@uark.edu
phamtrongthang123@gmail.com
Google Scholar; Personal Page

EDUCATION

University of Arkansas, Fayetteville, AR
Ph.D., Computer Science (Expected Dec 2027)

Viet Nam National University, Ho Chi Minh City, University of Science
B.S., Honors in Information Technology

PUBLICATIONS

Journal

1. **Trong Thang Pham**, Minh Tran, Winston Bounsavy, Tri Nguyen, Ngan Le. **A2VIS: Amodal-Aware Approach to Video Instance Segmentation.** In *Image and Vision Computing*, Elsevier, 2025. **(Q1, IF 4.2)**
2. **Trong Thang Pham**, Jacob Brecheisen, Carol C. Wu, Hien Nguyen, Zhigang Deng, Donald Adjeroh, Gianfranco Doretto, Arabinda Choudhary, Ngan Le. **ItpCtrl-AI: End-to-End Interpretable and Controllable Artificial Intelligence by Modeling Radiologists' Intentions.** In *Artificial Intelligence In Medicine*, Elsevier, 2025 **(Q1, IF 6.1)**.

Conferences

1. **Trong Thang Pham**, AKASH AWASTHI, Saba Khan, Esteban Duran Marti, Tien-Phat Nguyen, Khoa Vo, Minh Tran, Ngoc Son Nguyen, Cuong Tran Van, Yuki Ikebe, Anh Totti Nguyen, Anh Nguyen, Zhigang Deng, Carol C. Wu, Hien Van Nguyen, Ngan Le. **CT-ScanGaze: A Dataset and Baselines for 3D Volumetric Scanpath Modeling.** In *The IEEE/CVF International Conference on Computer Vision* (ICCV) 2025.
2. **Trong Thang Pham**, Tien-Phat Nguyen, Yuki Ikebe, Akash Awasthi, Zhigang Deng, Carol C. Wu, Hien Nguyen, Ngan Le. **GazeSearch: Radiology Findings Search Benchmark.** In *The IEEE/CVF Winter Conference on Applications of Computer Vision* (WACV) **(Oral - acceptance rate of 8.2% of 2,458 submissions)** 2025.
3. **Trong Thang Pham**, Ngoc-Vuong Ho, Nhat-Tan Bui, Thinh Phan, Patel Brijesh, Donald Adjeroh, Gianfranco Doretto, Anh Nguyen, Carol C. Wu, Hien Nguyen, Ngan Le. **FG-CXR: A Radiologist-Aligned Gaze Dataset for Enhancing Interpretability in Chest X-Ray Report Generation.** In *The Asian Conference on Computer Vision* (ACCV) 2024.
4. **Trong Thang Pham**, Nhat Le, Tuong Do, Hung Nguyen, Erman Tjiputra, Quang D. Tran, Anh Nguyen. **Style Transfer for 2D Talking Head Generation.** In *The IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshop* (CVPRW) 2024.
5. Yamazaki, Kashu, Taisei Hanyu, Khoa Vo, **Trong Thang Pham**, Minh Tran, Gianfranco Doretto, Anh Nguyen, and Ngan Le. **Open-Fusion: Real-time Open-Vocabulary 3D Mapping and Queryable Scene Representation.** In *The IEEE International Conference on Robotics and Automation* (ICRA) 2024.

6. **Trong Thang Pham**, Jacob Brecheisen, Anh Nguyen, Hien Nguyen, Ngan Le. **I-AI: A Controllable & Interpretable AI System for Decoding Radiologists' Intense Focus for Accurate CXR Diagnoses.** In *The IEEE/CVF Winter Conference on Applications of Computer Vision* (WACV) 2024.
7. Vo, Khoa, **Trong Thang Pham**, Kashu Yamazaki, Minh Tran, and Ngan Le. **DNA: Deformable Neural Articulations Network for Template-Free Dynamic 3D Human Reconstruction From Monocular RGB-D Video**. In *The IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshop* (CVPRW) 2023.
8. Le, Nhat, **Trong Thang Pham**, Tuong Do, Erman Tjiputra, Quang D. Tran, Anh Nguyen. **Music-Driven Group Choreography.** In *The IEEE/CVF Conference on Computer Vision and Pattern Recognition* (CVPR) 2023.
9. Nguyen, Tien-Phat, **Trong Thang Pham**, Tri Nguyen, Hieu Le, Dung Nguyen, Hau Lam, Phong Nguyen, Jennifer Fowler, Minh-Triet Tran, Ngan Le. **EmbryosFormer: Deformable Transformer and Collaborative Encoding-Decoding for Embryos Stage Development Classification.** In *The IEEE/CVF Winter Conference on Applications of Computer Vision* (WACV) 2023.
10. Pham, Minh-Khoi, Thang-Long Nguyen-Ho, **Trong-Thang Pham**, Hai-Tuan Ho-Nguyen, Hai-Dang Nguyen, and Minh-Triet Tran. **HCMUS at MediaEval 2021: Facial Data De-identification with Adversarial Generation and Perturbation Methods.** In *MediaEval Workshop 2021*
11. Minh-Triet Tran, Tam V. Nguyen, Trung-Hieu Hoang, Trung-Nghia Le, Khac-Tuan Nguyen, Dat-Thanh Dinh, Thanh-An Nguyen, Hai-Dang Nguyen, Xuan-Nhat Hoang, Trong-Tung Nguyen, Viet-Khoa Vo-Ho, Trong-Le Do, Lam Nguyen, Minh-Quan Le, Hoang-Phuc Nguyen-Dinh, **Trong-Thang Pham**, Xuan-Vy Nguyen, E-Ro Nguyen, Quoc-Cuong Tran, Hung Tran, Hieu Dao, Mai-Khiem Tran, Quang-Thuc Nguyen, Tien-Phat Nguyen, The-Anh Vu-Le, Gia-Han Diep, Minh N. Do. **iTASK - Intelligent Traffic Analysis Software Kit**. In *The IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshop* (CVPRW) 2020.
12. Minh Pham, Hai-Tuan Ho-Nguyen, **Trong Thang Pham**, H. Tran, Hai-Dang Nguyen, and M. Tran. **HCMUS at Pixel Privacy 2020: Quality Camouflage with Back Propagation and Image Enhancement**. In *MediaEval Workshop 2020*.
13. Hung V. Tran, **Trong Thang Pham**, Hai-Tuan Ho-Nguyen, Hoai-Lam Nguyen-Hy, Xuan-Vy Nguyen, Thang-Long Nguyen-Ho, and M. Tran. **HCMUS at Pixel Privacy 2019: Scene Category Protection with Back Propagation and Image Enhancement.** In *MediaEval Workshop 2019*.

Preprints

1. Ethan Coffman, Reagan Clark, Nhat-Tan Bui, **Trong Thang Pham**, Beth Kegley, Jeremy G. Powell, Jiangchao Zhao, Ngan Le. **CattleFace-RGBT: RGB-T Cattle Facial Landmark Benchmark.** In *arXiv preprint arXiv:2406.03431* (Accepted by CV4Animals @ CVPRW 2024).

Employment and Research Experience

University of Arkansas
Graduate Research Assistant Jan 2023 - Present

- **Computer-aided Diagnosis**: Research and develop datasets and state-of-the-art methods on eye tracking data to help reducing human error while increasing overall accuracy in reading CXR or CT scan. Published papers in **ICCV 2025,**

Artificial Intelligence In Medicine (Elsevier), WACV 2024 & 2025, and ACCV 2024.

- **Robotics**: Research and develop a real-time system for point cloud object detection and segmentation. Co-authored a paper published in **ICRA 2024**.
- **Cattle Welfare**: Mentor a undergraduate student and develop an automatic system for fever estimation and cattle monitoring. One accepted technical report by CV4Animals Workshop at CVPR 2024.

Teaching Assistant Sep 2023 - Present

- Prepare teaching materials; Design and grade assignments; Assist students.
- Courses: Introduction to Artificial Intelligence (Fall 2023, Fall 2024).

AIOZ AI Singapore

R&D Scientist Nov 2021 - Oct 2022

- **3D human motion reconstruction in the wild**: Research and develop dataset and baselines for Group Dance Motion. Published papers in CVPR 2023 and CVPR Workshop 2023.
- **AI Talking Avatar**: Research and develop products for generating audio-driven 2D talking face animation and face reenactment. Published a paper in CVPR Workshop 2024.

SELab at University of Science, VNU-HCM

Research Assistant Sep 2019 - Dec 2021

- Researched and published 3 technical reports on Privacy in Machine Learning and 1 paper in CVPR Workshop on Traffic Analysis.

Mentoring

AICV Lab, University of Arkansas

Mentor Jan 2023 - Present

- Mentor 3 undergraduate students in conducting research on Computer Vision, resulting in 2 published paper in WACV 2024 & 2025 and 1 submitted paper to CVPR Workshop 2024.

Awards

Doctoral Academy Fellowships, University of Arkansas 2023-2027
Vietnam National Master/PhD Scholarship (VinIF) 2021
Top 20 students contributed greatly to Vietnam AI Research 2021

Invited Talks

Gen-XAI: Advancing CXR Diagnosis Generation with Explainable Artificial Intelligence

Bioinspired Machine Learning Workshop 2024, hosted by West Virginia University

Professional Services

Reviewer Service

- The Annual Conference on Neural Information Processing Systems (NeurIPS) 2025
- The ACM International Conference on Multimedia (MM) 2025
- IEEE Transactions on Image Processing (IEEE TIP)
- The IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) 2025
- The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2024 & 2025
- The Annual AAAI Conference on Artificial Intelligence (AAAI) 2025

- The European Conference on Computer Vision (ECCV) 2024
- The Asian Conference on Computer Vision (ACCV) 2024

SKILLS

Computer vision, Medical imaging analysis, Interpretable AI, Eye tracking, Deep Learning, PyTorch, Python.

REFERENCES

Dr. Ngan Le, Assistant Professor, EECS, University of Arkansas.
thile@uark.edu