Trong Thang Pham

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SUMMARY

My research interests are Computer Vision, Explainable AI, Medical Imaging Analysis, Multi-modal Deep Learning, Robotic and 3D human modeling. I have solid experience working with Python and Pytorch for my main research (3 years) and I have published in top conferences and journals, i.e., CVPR, ICRA, WACV, and Artificial Intelligence in Medicine journal.

EXPERIENCE

AICV Lab, University of Arkansas   *Jan 2023 - Present*
Graduate Research Assistant

- **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 **Artificial Intelligence In Medicine, WACV 2024, 2025, and ACCV 2024**.

AIOZ AI   *Nov 2021 - Nov 2022*
R&D Scientist

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

EDUCATION

University of Arkansas, Fayetteville, AR
Ph.D. in Computer Science (Advisor: Ngan Le)   *Jan 2023 - Present*

University of Science, VNU-HCM
B.Sc. (Honors) in Computer Science   *Sep 2017 - Oct 2021*

SELECTED PUBLICATION

Journal Paper

- **Trong Thang Pham** et al. **ItpCtrl-AI: End-to-End Interpretable and Controllable Artificial Intelligence by Modeling Radiologists' Intentions,** In *Artificial Intelligence In Medicine (Rank Q1)*

Conference Papers

- **Trong Thang Pham** et al. **GazeSearch: Radiology Findings Search Benchmark,** In *WACV 2025* (Oral)
- **Trong Thang Pham** et al. **FG-CXR: A Radiologist-Aligned Gaze Dataset for Enhancing Interpretability in Chest X-Ray Report Generation,** In *ACCV 2024*
- **Trong Thang Pham** et al. **Style Transfer for 2D Talking Head Generation,** In *CVPRW 2024*
- 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 *ICRA 2024*
- **Trong Thang Pham** et al. **Decoding Radiologists Intense Focus for Accurate CXR Diagnoses: A Controllable and Interpretable AI System,** In *WACV 2024*
- Le, Nhat, **Trong Thang Pham**, Tuong Do, Erman Tjiputra, Quang D. Tran, and Anh Nguyen. **Music-Driven Group Choreography,** In *CVPR 2023*
- Nguyen, Tien-Phat, **Trong Thang Pham**, Tri Nguyen, Hieu Le, Dung Nguyen, Hau Lam, Phong Nguyen, Jennifer Fowler, Minh-Triet Tran, and Ngan Le. **EmbryosFormer: Deformable Transformer and Collaborative Encoding-Decoding for Embryos Stage Development Classification,** In *WACV 2023*

AWARDS

Doctoral Academy Fellowships award - University of Arkansas	*2023*
Vietnam National Master/PhD Scholarship	*2021*
Top 20 students contributed greatly to Vietnam AI Research	*2021*

SERVICES

Reviewer at IEEE TIP, CVPR 2024 & 2025, ECCV 2024, AAAI 2025, WACV 2025, ACCV 2024
Teaching Assistant CSCE 5613: Introduction to Artificial Intelligence, University of Arkansas

SKILLS

computer vision, medical imaging analysis, explainable AI, data analytics, experimental design, team player, machine learning, predictive models design, problem-solving, communication skills, transformers, pytorch, python