

**Vinh Quang TRAN**  
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## RESEARCH & TECHNICAL INTERESTS

Computer vision, Generative AI (GenAI), Machine learning, Human action understanding in videos (time series prediction), Scene-text understanding, Object detection, Representation learning, Multimodal learning, and Optimization algorithms.

## EDUCATION

<b>Stony Brook University</b> , Stony Brook, NY	Aug 2015 – May 2023
Ph.D. in Computer Science	
Advisor: <a href="#">Prof. Minh Hoai Nguyen</a>	
<b>University of Science</b> , Ho Chi Minh City, Vietnam	Sep 2009 – Dec 2011
M.S. in Information Systems - (Top 1%)	
<b>University of Science</b> , Ho Chi Minh City, Vietnam	Sep 2005 – May 2009
B.S. in Information Technology (Computer Science) - (Top 5%)	

## INDUSTRY & RESEARCH EXPERIENCE

<b>Senior Applied Scientist</b> , SpreeAI Corporation (Remote, NY)	Jun 2023 – Present
• Led the development of Generative AI-based digital human systems based on stable diffusion for exemplar-guided virtual try-on, multiple pose try-on, targeting realistic garment deformation and identity preservation.	
• Trained the end-to-end virtual try-on pipeline, garment alignment, and geometric warping for high-fidelity synthesis.	
• Designed and trained pixel-level human and garment parsing models using deep semantic segmentation.	
• Collaborated cross-functionally with product and engineering teams to translate research prototypes into production.	
<b>Research Assistant</b> , Stony Brook University	Aug 2016 – May 2023
• Developed a language-enhanced video action anticipation model that leverages linguistic knowledge to improve the prediction of future and unseen human actions.	
• Cross-Modal Text–Video Retrieval with language and vision models: Exploiting internal knowledge alignment between caption-to-caption linguistic similarity and video-to-video visual similarity for bidirectional video–caption ranking.	
• Proposed knowledge distillation frameworks to improve early action anticipation, transferring temporal knowledge from full-sequence action recognition models.	
• Developed multi-stage distillation pipelines leveraging bidirectional RNNs to enhance early action recognition accuracy under limited observation.	
<b>Visiting Research Scientist</b> , VinAI Research (now Qualcomm AI Research)	Jul 2019 – Aug 2019
• Improved scene text recognition by incorporating lexicon-based constraints during both training and inference.	
<b>Teaching Assistant</b> , Stony Brook University	Aug 2021 – Dec 2021
• CSE512: Machine Learning	
• CSE527: Introduction to Computer Vision	
<b>Research Intern</b> , National Institute of Informatics, Tokyo, Japan	Jan 2013 – Mar 2013
• Developed a video retrieval system leveraging semantic concepts, color layout, and faces for large-scale video exploration.	

## PUBLICATIONS & SERVICE

- **Publications:** [Google Scholar](#).
- **Reviewer:** BMVC 2020, ICCV 2021, BMVC 2021, CVPR 2022, ECCV 2022, ACCV 2022, CVPR 2023, ICCV 2023, BMVC 2023, CVPR 2025, CVPR 2026

## HONORS & AWARDS

- **Special CS Department Chair Fellowship:** (\$4,000), Stony Brook University, 2015
- **Video Browser Showdown Winner:** The International Conference on Multimedia Modeling (MMM), 2013

## TECHNICAL SKILLS

- **Languages:** Python, C++, Java, C#, MATLAB
- **Deep Learning:** PyTorch(8+ years), TensorFlow(8+ years), Hugging Face(3+ years), Scikit-learn(8+ years)
- **Databases:** MySQL(8+ years), MS SQL Server(8+ years)
- **Others:** Fast-paced environment, strong communication skills and the ability to synthesize complex information.