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## RESEARCH & TECHNICAL INTERESTS

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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

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

## INDUSTRY & RESEARCH EXPERIENCE

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**Senior Applied Scientist**, 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.

**Research Assistant**, 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.

**Visiting Research Scientist**, VinAI Research (now Qualcomm AI Research) Jul 2019 – Aug 2019

- Improved scene text recognition by incorporating lexicon-based constraints during both training and inference.

**Teaching Assistant**, Stony Brook University Aug 2021 – Dec 2021

- CSE512: Machine Learning
- CSE527: Introduction to Computer Vision

**Research Intern**, 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

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- **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

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- **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

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- **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.