

JIE LEI

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EDUCATION

University of North Carolina at Chapel Hill

Aug 2017 - Present

Ph.D. in Computer Science, Expected May 2022

Advisors: Tamara L. Berg and Mohit Bansal

University of Electronic Science and Technology of China (UESTC)

Sep 2013 - Jun 2017

B.Eng in Computer Science & Technology, Yingcai Honors College

Advisor: Sinno Jialin Pan (NTU, Singapore)

EXPERIENCE

University of North Carolina at Chapel Hill

Aug 2017 - Present

Research Assistant with Tamara L. Berg and Mohit Bansal

Chapel Hill, NC

- Focusing on multimodal video and language understanding.
- VLEP dataset for video-and-language future event prediction. (EMNLP 2020)
- TVR and TVC datasets for video-subtitle moment retrieval and captioning. (ECCV 2020)
- TVQA and TVQA+ for large-scale spatio-temporal video question answering. (EMNLP 2018, ACL 2020)

Microsoft Dynamics 365 AI Research

May 2020 - Aug 2020

Research Intern with Luowei Zhou and Jingjing Liu

Bellevue, WA

- End-to-end vision and language pretraining.

Tencent AI Lab

May 2019 - Aug 2019

Research Intern with Liwei Wang, Yelong Shen and Dong Yu

Seattle, WA

- Recurrent transformer for coherent video paragraph captioning. (ACL 2020)

Nanyang Technological University

Oct 2016 - Apr 2017

Research Intern with Sinno Jialin Pan

Singapore

- Transfer learning in deep hash models for fast image retrieval.

University of Manitoba

Jul 2016 - Oct 2016

Research Intern with Yang Wang

Winnipeg, Canada

- Weakly supervised image classification using hierarchical image labels. (CRV 2017)

PAPERS

[8] **Jie Lei***, Linjie Li*, Luowei Zhou, Zhe Gan, Tamara L. Berg, Mohit Bansal, Jingjing Liu. “Less is More: ClipBERT for Video-and-Language Learning via Sparse Sampling”, Under Review 2020. (* denotes equal contribution). Preprint Link






[7] Zineng Tang, **Jie Lei**, Mohit Bansal, “Learning from Noisy Instructional Videos.”, Under Review 2020.

[6] **Jie Lei**, Licheng Yu, Tamara L. Berg, Mohit Bansal, “What is More Likely to Happen Next? Video and Language Future Event Prediction”, EMNLP 2020. 📄 Paper, 🗃 Dataset


[5] **Jie Lei**, Licheng Yu, Tamara L. Berg, Mohit Bansal, “TVR: A Large-Scale Dataset for Video-Subtitle Moment Retrieval”, ECCV 2020. 📄 Paper, 🗃 Dataset, 🔗 Retrieval Code, 🔗 Captioning Code

[4] **Jie Lei**, Liwei Wang, Yelong Shen, Dong Yu, Tamara L. Berg, Mohit Bansal, “MART: Memory-Augmented Recurrent Transformer for Coherent Video Paragraph Captioning”, ACL 2020. 📄 Paper, 🔗 Code

[3] **Jie Lei**, Licheng Yu, Tamara L. Berg, Mohit Bansal, “TVQA+: Spatio-Temporal Grounding for Video Question Answering”, ACL 2020. 📄 Paper, 🗃 Dataset, 🔗 Code

- [2] **Jie Lei**, Licheng Yu, Mohit Bansal, Tamara L. Berg, “TVQA: Localized, Compositional Video Question Answering”, EMNLP 2018 (oral).  Paper,  Dataset,  Code
- [1] **Jie Lei**, Zhenyu Guo, Yang Wang. “Weakly Supervised Image Classification with Coarse and Fine Labels.” CRV 2017.  Paper,  Code

PROJECTS

- [1] **Jie Lei**, “AnimeGAN: Create Anime Face using Generative Adversarial Networks”, Github 2017 .
- Implementation of GANs for anime face generation.  Data & Code (**1K+ stars**)
 - Automatic pipeline for large-scale anime face dataset construction from the web.

AWARDS

Adobe Research Fellowship , Adobe, USA.	2021
Outstanding Undergraduate Thesis , UESTC, China	2017
Globalink Research Intern Award (200 undergraduates across China), Mitacs, Canada.	2016
Meritorious Winner , Interdisciplinary Contest In Modeling, COMAP, USA	2016
Scholarship for Academic Excellence (5%), UESTC, China	2015-2016
Futong Scholarship (2%), Futong Group, China	2014

ACADEMIC SERVICE

Journal and Conference Reviewer: TPAMI, IJCV, CVPR 2019-2021, ICCV 2019, ECCV 2020, ACM MM 2020 Interactive Arts, AAAI 2021

Workshop Program Committe: NeurIPS HAMLETS 2020

TECHNICAL & LANGUAGE

Programming	Python, JavaScript, HTML/CSS, Matlab, C\C++, Lua
Tools	PyTorch, Linux, Vim, Git, Latex.