Lele Chen
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Department of Computer Science, University of Rochester Rochester, NY 14627

EDUCATION

University of Rochester September 2018
Ph.D Candidate in Computer Science *Supervisor: Prof. Chenliang Xu*

University of Rochester *September 2016 - Present*
M.S. in Computer Science *GPA: 3.71/4.0*

University of Reutlingen *March 2015–October 2015*
Exchange student in Informatics *GPA: 1.68/1.0*

Donghua University *2012 - 2016*
B.S. in Computer Science *GPA: 82.3/100 (Math: 90.2/100)*

RESEARCH INTERESTS

Visual understanding: *Video/image segmentation, activity recognition, and multi-modal vision-and-x modeling.*

PUBLICATIONS

- ***L. Chen**, Z. Li, R. Maddox, Z. Duan and C. Xu. 'Lip movements generation at a glance'. ECCV, 2018*
- ***L. Chen**, E. Eskimez, Z. Li, Z. Duan, C. Xu, RK. Maddox. 'Toward a visual assistive listening device: Real-time synthesis of a virtual talking face from acoustic speech using deep neural networks'. The Journal of the Acoustical Society of America, 2018*
- ***L. Chen**, Y. Wu, A. M. DSouza, A. Z. Abidin, C. Xu and A. Wismller. 'MRI Tumor Segmentation with Densely Connected 3D CNN'. In SPIE Conference on Medical Imaging, 2018 (oral presentation)*
- ***L. Chen**, S. Srivastava, Z. Duan and C. Xu. 'Deep Cross-Modal Audio-Visual Generation'. In Proc. of ACM International Conference on Multimedia Thematic Workshops, 2017*

HONORS & AWARDS

Scholarship by University of Rochester (30% of tuition) *2016*

Bronze Medal of Mathematical Contest in Modeling of Shanghai *2014*

Scholarship for Academic Excellence *2013*

Jinbao Scholarship for Top 10 Students *2013*

Bronze Medal of ACM Contest of Donghua University *2013*

SELECTED PROJECTS

Lip movements generation at a glance *October 2017*
Advisor: *Prof. Ross Maddox, Prof. Zhiyao Duan, Prof. Chenliang Xu*
Explored the best modeling of the audio-visual correlations in building and training a lip-movement generator network. Specifically, we devised novel methods to fuse audio and image embeddings in generating multiple lip images and propose a novel correlation loss to synchronize lip changes and speech changes. demo video can be found in `https://youtu.be/7IX_sIL5v0c`

MRI tumor segmentation with densely connected 3D CNN *July 2017*
Advisor: *Prof. Axel W. E. Wismller, Prof. Chenliang Xu*
Introduced a new approach of segmenting subregions in gliomas using densely connected 3D convolutional networks. Code has been released in `https://github.com/lelechen63/MRI-tumor-segmentation-Brats`

Video segmentation considering actor and action *(on going)* *August 2017*
Advisor: *Prof. Chenliang Xu*
Built a hierarchical model to segment video sequences by sharing useful information among different actors and actions.

Region of Interest Detection in satellite Images *April 2017*
Advisor: *Prof. Jiebo Luo*
Developed an application to automatically detect 'hidden' smelters on Google Satellite Map using transfer learning.

Deep Cross-Modal Audio-Visual Generation *January-April 2017*
Advisor: *Prof. Chenliang Xu*
Designed conditional generative adversarial networks to achieve cross-modal audio-visual generation of musical performances.

EXPERIENCE

Vision Research Scientist(Intern) *May 2018 - Present*
JD.com, USA

Research Assistant *September 2017 - May 2018*
University of Rochester, USA

Teaching Assistant *July 2017 - October 2017*
University of Rochester, USA

Vision Science Engineer (Research Intern) *June 2017 - October 2017*
VisualDX, USA

Software Engineering trainee *May 2015–August 2015*
Shaumal, China

TECHNICAL SKILLS

Master Courses
Advanced Topics in Computer Vision, Deep learning and Graphical models, Machine learning (audit), Data mining, Machine vision

Programming Languages
Proficient in: Python, Lua, C++, MATLAB
Familiar with: Ruby, C, R, CUDA, SQL

Software Skills
Proficient in: Pytorch, Torch, Keras, MXNet, OpenCV, Omigraffle
Familiar with: Caffe, Tensorflow