

# Yongqing Liang

research.lyq.me

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github.com/xmlyqing00

## EDUCATION

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### Louisiana State University

*Ph.D. candidate in Division of Electrical Computer Engineering*

- Advisor: Prof. Xin Li. GPA: 4.0/4.0.

Aug. 2018 – Present

*Baton Rouge, LA, USA*

### Fudan University

*Bachelor of Science, Computer Science and Technology*

- Member of Computer Science Honor Class (top 20%). GPA 3.3/4.0.

Sep. 2013 – June 2017

*Shanghai, China*

## EXPERIENCE

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### Graduate Research Assistant

*Geometric and Visual Computing Group, Louisiana State University*

- Advisor: Prof. Xin Li.
- Research areas: image/video processing and visual understanding.

Aug. 2018 – Present

*Baton Rouge, LA, USA*

### Full-stack Engineer and Quantitative Researcher Intern

*Quantitative Research Department, Yaozhi Asset Management Co.*

- Led, designed and developed Real-time Portfolio and Risk Management System.
- Designed treasury futures arbitrage strategy.

Jan. 2017 – May 2017

*Shanghai, China*

### Undergraduate Research Assistant

*Intelligent Multimedia Processing Lab, Fudan University*

- Advisor: Prof. Cheng Jin.
- Designed salient region detection from images and video resizing.

Sep. 2013 – June 2017

*Shanghai, China*

## PROFESSIONAL SERVICE

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- Reviewer for 2019 International Symposium on Solid and Physical Modeling (SPM-19)

## PUBLICATIONS

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Peer-reviewed Conference Papers:

- **Video Object Segmentation with Adaptive Feature Bank and Uncertain-Region Refinement**  
Yongqing Liang, Xin Li, Navid Jafari, Qin Chen  
*Advances in neural information processing systems (NeurIPS), 2020*
- **Salient Object Detection with Convex Hull Overlap**  
Yongqing Liang  
*IEEE International Conference on Big Data (Big Data), 4605-4612, 2018*

Peer-reviewed Journal Papers:

- **A Discriminative Multi-Channel Facial Shape (MCFS) Representation and Feature Extraction for 3D Human Faces**  
Xun Gong, Xin Li, Tianrui Li, Yongqing Liang  
*Computer Graphics Forum (CGF), 2020 (IF: 2.12)*
- **WaterNet: An adaptive matching pipeline for segmenting water with volatile appearance**  
Yongqing Liang, Navid Jafari, Xing Luo, Qin Chen, Yanpeng Cao, Xin Li  
*Computational Visual Media (CVM), 1-14, 2020 (IF: 1.82)*
- **Development and Evaluation of a Framework to Rapidly Reconstruct Hydrographs During Hurricanes and Floods**  
Navid H. Jafari, Xin Li, Qin Chen, Canyu Le, Logan P. Betzer, and Yongqing Liang  
*Computers and Geosciences, 2020 (IF: 2.99)*

- **Reassembling Shredded Document Stripes Using Word-Path Metric and Greedy Composition Optimal Matching Solver**  
Yongqing Liang, Xin Li  
*IEEE Transactions on Multimedia (TMM) 22 (5), 1168-1181, 2019 (IF: 5.45)*
- **Real-time avatar pose transfer and motion generation using locally encoded laplacian offsets**  
Masoud Zadghorban Lifkooee, Celong Liu, Yongqing Liang, Yimin Zhu, Xin Li  
*Journal of Computer Science and Technology, 2019 (IF: 1.51)*

## HONORS AND AWARDS

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- Louisiana State University Division of ECE First Year Academic Award, 2018.
- Fudan University Innovation and Entrepreneurship Competition First Prize, 2016.
- Fudan University Outstanding Student Scholarship in Computer Science Honor Class, 2015.
- Fudan University Third Prize Scholarship, 2014.
- National Olympiad in Informatics Fujian Province First Prize, 2011 and 2012.

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, Matlab, JavaScript, HTML/CSS

**Frameworks:** PyTorch, OpenCV, OpenGL, Threejs, FastAPI, Elasticsearch, Django

Last update: January 2021