

CHUANMIN JIA

CONTACT	Institute of Digital Media, S2728, School of EE & CS, Peking University, Haidian District, Beijing 100871, China http://www.jiachuanmin.site Google Scholar	✉ cmjia@pku.edu.cn
RESEARCH INTERESTS	<ul style="list-style-type: none">• Video Processing• Light Field Image Compression• Machine Learning	
EDUCATION	<p>Peking University (PKU) , Beijing, China Sep. 2015 – Current</p> <ul style="list-style-type: none">• <i>Ph.D.</i> candidate in Computer Science• Advisor: Prof. Siwei Ma and Prof. Wen Gao <p>Beijing Univ. of Posts. & Telecom. (BUPT) , Beijing, China Sep. 2011 – Jul. 2015</p> <ul style="list-style-type: none">• <i>B.Eng</i> in Computer Science and Technology• Overall GPA 86.7/100, rank: 10%• Thesis: Research on Compressed Video Enhancement and GPU Acceleration. (in Chinese)	
RESEARCH EXPERIENCE	<p>Institute of Digital Media, Peking University Sep. 2014 – present</p> <ul style="list-style-type: none">• <i>Research Assistant</i> <p>Institute of Computational Linguistics, Peking University Feb. 2014 – Aug 2014</p> <ul style="list-style-type: none">• <i>Research Intern</i> <p>Innovation Research Center, Beijing Univ. of Posts. & Telecom. Aug. 2013 – Mar. 2014</p> <ul style="list-style-type: none">• <i>Research Intern</i>	
JOURNAL PAPERS	<ul style="list-style-type: none">• Siwei Ma, Xinfeng Zhang, Jian Zhang, C. Jia, Shiqi Wang and Wen Gao “Nonlocal In-Loop Filter: The Way Toward Next-Generation Video Coding?,” <i>IEEE MultiMedia</i> 23 (2), 16-26.	
CONFERENCE PAPERS	<ul style="list-style-type: none">• C. Jia, Y. Yang, X. Zhang, S. Wang, X. Zhang, S. Wang and S. Ma, “Optimized Inter-view Prediction Based Light Field Image Compression with Adaptive Reconstruction”, Accepted by IEEE International Conference on Image Processing (ICIP) grand challenge for LF image compression, Beijing, China, Sept, 2017. (Oral)• C. Jia, Y. Yang, X. Zhang, S. Wang, S. Wang and S. Ma, “Light Field Image Compression with Sub-apertures Reordering and Adaptive Reconstruction”, Accepted by the Pacific-Rim Conference on Multimedia (PCM), Harbin, China, Sept, 2017. (TBD)• C. Jia, X. Zhang, J. Zhang, S. Wang and S. Ma, “Deep Convolutional Network based Image Quality Enhancement for Low Bit Rate Image Compression,” <i>Proc. of IEEE Visual Communications and Image Processing (VCIP)</i>, Chengdu, China, Nov. 2016. (Oral)• J. Zhang, C. Jia, N. Zhang, S. Ma, and W. Gao, “Structure-driven Adaptive Non-local Filter for High Efficiency Video Coding (HEVC),” <i>Proc. of IEEE Data Compression Conference (DCC)</i>, Snowbird, Utah, USA, Mar. 2016. (Oral) (Top Conference in Data Compression)	

- J. Zhang, **C. Jia**, S. Ma, and W. Gao, “Non-Local Structure-Based Filter for Video Coding,” *Proc. of IEEE International Symposium on Multimedia (ISM)*, Miami, Florida, USA, Dec. 2015. (Oral)

HONORS AND AWARDS

- 1st prize of Video Big Data Compression Contest in the National Graduate Contest on Smart-City Technology. 2016
- Excellent Graduation Thesis Award, Beijing Univ. of Posts. & Telecom. 2015
- Innovation Scholarship (Collaborative Innovation Center for Future Media Network). 2015
- Honorable Mention Winner in American Mathematical Contest in Modeling. 2014

PROFESSIONAL SERVICE

REVIEWER

- Journal of Visual Communication and Image Representation, JVCIR. (since Oct 2016)
- IEEE Visual Communication and Image Processing (VCIP). (since July 2017)

CONFERENCES (ORAL OR POSTER) AND INVITED TALKS

- Deep Convolutional Network based Image Quality Enhancement for Low Bit Rate Image Compression, VCIP2016, Chengdu, China, Nov. 2016

MEMBERSHIPS

- Student Member, IEEE

SELECTED PROJECTS

View Synthesis Optimization,

Apr. 2016 - Sep. 2016

- Optimizing an open-source view synthesis software using CUDA. 6x fps acceleration, achieving real time FHD (1080P) view synthesis with over 40fps.

NFC Tour Guide,

Aug. 2013 - Mar. 2014

- Developed an Android app using NFC for tourism. Mainly responsible for implementing of NFC pay, speech tour guide and database interface design.

Flower Recognition,

Jul. 2013 - Sep. 2013

- Proposed recognition algorithm by combining histogram and contour feature with linear classifier. iOS app development and recognition algorithm implementation.

SKILLS

- Programming: C/C++, CUDA, MATLAB, Power Shell, HTML, Python, L^AT_EX.
- Operating System: Mac OS X, Ubuntu Linux, Windows
- Libraries/Frameworks: Caffe, OpenCV, Numpy, Tensorflow, HEVC/H.265, AVS2
- Github Repo: <https://github.com/codersadis>

Last updated: July 9th 2017