

Shizhan ZHU

CONTACT

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PRESENT ADDRESS

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UC Berkeley,
Berkeley, USA.

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EDUCATION

University of California, Berkeley, Berkeley, USA August 2017 - Present
PhD in the department of Electrical Engineering and Computer Science

The Chinese University of Hong Kong, Hong Kong SAR, China August 2014 - July 2017
Master of Philosophy in MMLAB, Research Assistant

- Advisor: Professor Chen Change Loy
- Co-Advisor: Professor Xiaoou Tang
- Collaborated with Professor Dahua Lin

Tsinghua University, Beijing, China August 2010 - July 2014
Undergraduate in EE Department (Electronic Information Science and Technology)

PUBLICATIONS

- Be your own Prada: Dressing People in New Outfits via Textual Descriptions and Generative Adversarial Networks
Shizhan Zhu, Sanja Fidler, Raquel Urtasun, Dahua Lin, Chen Change Loy
IEEE Conference on International Conference on Computer Vision (ICCV), 2017.
- Deep Cascaded Bi-Network for Face Hallucination
Shizhan Zhu, Sifei Liu, Chen Change Loy, Xiaoou Tang.
European Conference on Computer Vision (ECCV), 2016.
- Unconstrained Face Alignment via Cascaded Compositional Learning
Shizhan Zhu, Cheng Li, Chen Change Loy, Xiaoou Tang.
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2016.
- Face Alignment by Coarse-to-Fine Shape Searching
Shizhan Zhu, Cheng Li, Chen Change Loy, Xiaoou Tang.
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2015.

RESEARCH EXPERIENCE

Research Assistant in MMLAB

July 2016 - Jan 2017

Collaborate with Prof. Raquel Urtasun and Prof. Sanja Fidler

Dressing People in New Outfits via Text and GAN

- Proposed an approach that given an original wearer's image and a sentence describing another kind of fashion, the model is capable of rendering a new image based on the text description, while keeping the wearer's identity and human pose unchanged.
- First devised a GAN to generate a semantic segmentation map to determine the human/clothes shape based on the text and the original human shape, and then employed another GAN to render the final image, with high-quality texture synthesized guided by the segmentation map from the previous stage.
- Achieved very impressive qualitative results.

Research Student in MMLAB

August 2014 - June 2016

The Conventional Face Alignment Problem (Published in **CVPR** 2015)

- Provided state-of-the-art results on the challenging 300W benchmark and the widely acknowledged implementation.
- Addressed the initialization sensitivity problem, a notable issue in cascaded regression.

The Unconstrained (arbitrary-view) Face Alignment Problem (Published in **CVPR** 2016)

- Achieved fast speed (350FPS) for arbitrary-view-capable face alignment.
- Proposed an interesting and new flavor of random forest splitting mechanism.

Very Low-Resolution Face Super-Resolution (Published in **ECCV** 2016)

- Very charming results demonstrated - facial components can be synthesized even if no texture information is in the low-res input.
- Designed the bi-network architecture and the representation of the dense correspondence warping field to integrate the spatial cues into the network, for the first time.

SELECTED HONORS AND AWARDS

Distinguished Graduate Award of Tsinghua University (Cum Laude) July 2014

Distinguished Bachelor Thesis Award of Tsinghua (12 out of 245 in EE) July 2014

Recipient of the Tsinghua First-Class Scholarship (Top 10%) 2012, 2013

PROFESSIONAL ACTIVITIES

- Conference Reviewer for: CVPR, ICCV.
- Journal Reviewer for: CVIU, IET Computer Vision.

SKILLS AND OTHERS

Programming Languages	Python, Lua, Matlab, C/C++/Cuda, L ^A T _E X.				
Software	Pytorch, Torch, Caffe, TensorFlow, OpenCV.				
TOEFL	Total 107	Reading 29	Listening 24	Speaking 26	Writing 28
GRE	Verbal 157	Quantitative 170		Analytical Writing 4.0	