Jun Xing (邢骏)

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EDUCATION

PhD candidate, Computer Science **2012.09－present (2016.12)**

University of Hong Kong, Dept. of Computer Science

Co-supervised by Prof. Li-Yi Wei and Wenping Wang

Bachelor, Electronic Engineering and Information Science **2008.09－2012.06**

University of Science and Technology of China (USTC), Dept. of Electronic Engineering and Information Science

GPA: 3.85/4.3

RESEARCH AREA

My research focuses on Computer Graphics and Human Computer Interaction. In particular, I am interested in analyzing the repetitions in human-centered activities, such as painting and writing, and providing online "intelligent" suggestions, via a natural interface, to reduce manual labor while improving quality and performance.

PUBLICATIONS

- **Jun Xing**, Rubaiat Habib Kazi, Tovi Grossman, Li-Yi Wei, Jos Stam, George Fitzmaurice. Energy-Brushes: Interactive Tools for Illustrating Stylized Elemental Dynamics. Conditionally accepted by UIST 2016.
- **Jun Xing**, Li-Yi Wei, Takaaki Shiratori, and Koji Yatani. Autocomplete Hand-drawn Animations. ACM Transactions on Graphics (TOG), Proceedings of ACM SIGGRAPH Asia 2015.
- **Jun Xing**, Hsiang-Ting Chen and Li-Yi Wei. Autocomplete Painting Repetitions. ACM Transactions on Graphics (TOG), Proceedings of ACM SIGGRAPH Asia 2014.

RESEARCH EXPERIENCE

Energy-Brushes: Interactive Tools for Illustrating Stylized Elemental Dynamics **2016.01－2016.04**

Conditionally accepted by UIST 2016

We present a new animation framework and interactive system that enables artists to design elemental dynamics by sketching the underlying forces with energy brushes to animate drawings and textures.

Autocomplete Hand-drawn Animations **2014.12－2015.05**

Published by SIGGRAPH Asia 2015

We present an interactive drawing system that helps users produce animation more easily and in a better quality while preserving manual drawing practices. See live action at https://www.youtube.com/watch?v=w0YmWiy6sA4.

Autocomplete Painting Repetitions **2013.01－2014.05**

Published by SIGGRAPH Asia 2014

We present an interactive digital painting system that auto-completes tedious repetitions while preserving nuanced variations and maintaining natural flows. See live action at https://www.youtube.com/watch?v=m7MEAw46Ojo.

3D Campus **2011.11－2012.06**

Outstanding Bachelor's Thesis Award, USTC

Designed a 3D campus system to help people visit USTC more realistically. The virtual campus supports functions like 3D wandering, navigation, and index, etc.

Ray Tracing **2011.10－2012.01**

Training advised by Li-Yi Wei

After reading the book of "An Introduction to Ray Tracing" by Glassner, I traced the animated BART scenes, which includes scenes of Kitchen, Museum, and Robots.

Super-resolution of A Single Image **2011.05－2011.11**

Outstanding Undergraduate Research Project, USTC

Proposed new algorithm called "Super-resolution via spectral matting", with state-of-the-art performance both visually and qualitatively in PNSR. This project is finished when I was a research assistant in Institute of Statistical Signal Processing, USTC.

WORK EXPERIENCE

Adobe, Graphics research intern, San Jose **2016.07－2016.09**

Autodesk Research, UI Graphics research intern in the UI Group, Toronto **2016.01－2016.04**

Microsoft Research Asia, Graphics research intern in the Visual Computing Group, Beijing **2014.12－2015.04**

ACADEMIC SERVICE

Reviewer: PG 2015, 2016

SKILLS

Programmer: C/C++, Qt, Java

Designer: algorithm, UI, system

Artist: digital painting, hand-drawn animation, video

AWARDS

Excellent intern of Stars of Tomorrow Internship Program, Microsoft Research Asia (MSRA) **2015**

HKU University Postgraduate Fellowships (UPF), HKU **2012－2015**

Outstanding undergraduate, USTC **2012**

National Scholarship, Ministry of Education, P.R.China **2011**

Outstanding undergraduate research project, USTC **2011**

Second prize in Mathematical Contest in Modeling **2011**

National Inspirational Scholarship, Ministry, Education of P.R.China **2009, 2010**

Outstanding Students Scholarship, USTC **2008, 2009**