

# Xiaobo An

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## Education

*Ph.D. student*, Computer Science, Dartmouth College, 2006-present  
Research Activities: Appearance Editing and Modeling, Computational Photography and Mathematics for Computer Graphics  
Adviser: Prof. Hany Farid and Prof. Fabio Pellacini

*Ph.D. student*, CAD & CG State Key Lab, Zhejiang Univ., China, 2003-2006  
Adviser: Prof. Hujun Bao

*B.S.*, Computer science, Zhejiang University, China, 1999-2003  
Outstanding Undergraduate Thesis Award  
Adviser: Changsheng Yang

*Special Program for Gifted Children*, Dongbeiyucai Middle School, China, 1995-1999  
17 students admitted nationwide in 1995

## Employment

Intern for the Animation Technology Research & Development department at PDI/DreamWorks Animation, Jun. – Dec. 2009

## Research

*Photoshop for Materials*: 2008-present  
The goal of this project is to formally define common image operations (such as filtering and contrast control) for measured materials and develop algorithms for such operations.

*Appearance Transfer between Material Datasets*: 2008-present  
The goal of this project is to edit the appearance of measured material datasets using references. Given a target material dataset to be edited and a reference material dataset, the goal is to transfer the appearance of the reference to the target dataset.

*Appearance Space Editing Propagation*: 2007-2008  
We proposed a general framework for editing images and measured materials through edit propagation. We formulated the propagation as an energy optimization problem and derived an efficient and robust approximate algorithm to solve the optimization.

## Publications

Xiaobo An, Fabio Pellacini, *User-Controllable Color Transfer*, submitted to Eurographics, 2010

Xiaobo An, Fabio Pellacini, *AppProp: All-Pairs Appearance Space Edit Propagation*, ACM Transactions on Graphics (Siggraph), 2008

Xiaobo An, Xueying Qin, Hujun Bao, *Automatic and Robust Classification of Independent Motions in Video Sequences*, IS&T/SPIE Electronic Imaging, 2006

Guofeng Zhang, Xueying Qin, Xiaobo An, Wei Chen, Hujun Bao, *As-consistent-as-possible Compositing of Virtual Objects and Video Sequences*, Journal of Visualization and Computer Animation, 2006

## Service

*Reviewer*, Siggraph, 2009

*Reviewer*, Siggraph Asia, 2009

*Reviewer, Eurographics, 2008*

*Member of Student Committee, Computer Science Research Symposium, Dartmouth college, 2008*

## **Teaching**

Teaching Assistant, *Computer Graphics*, Dartmouth College, 2008

Teaching Assistant, *Algorithms*, Dartmouth College, 2007

Teaching Assistant, *Computer Graphics*, Dartmouth College, 2006

## **Qualifications**

Proficient in C/C++/Matlab

Familiar with Java/OpenGL/Html/Python/Fortran

Solid Knowledge in 3D Math, Linear Algebra and Calculus

Experience in Computational Geometry and Algorithms

Familiar with windows/linux

Fluent in English and Chinese