

# Scott Dixon

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## Experience

### Clinical Assistant Professor, University of Illinois at Chicago

August 2006 to Current, Chicago, IL

**Courses:** Computer Applications, Computer Visualization, Advanced Imaging Applications, Project Research, Independent Study. Advise in all aspects of 3d production, web design, app prototyping, volume rendering, stereoscopy and gaming for health.

**Lab Coordinator:** Develop annual budget and specify hardware and software needs. Daily maintenance of lab, resolving issues individually or with College IT. Developed program's Render Farm with IT, and now wrangle student render jobs and maintain farm.

**Service:** "Operating Room of the Future" Consultant to UIC Medical Hospital and Baxter. College Web Committee, College and Departmental Executive Committees.

### Sole Proprietorship, Medical Animation and Illustration

September 2005 to Current, USA

Medical animation and 3d illustration service from pitch to final delivery. Experience includes animation for medical instrumentation, health care defense litigation, mechanisms of action and patient education. Knowledgeable in hiring contractors for animation, video production in the OR, voice over artists, video editing and closed captioning service.

### Research Assistant, Virtual Reality in Medicine Lab at UIC

September 2005 to July 2006, Chicago, IL

Refined all Virtual Eye and House assets to run real time in stereo environment, enhancing user immersion. Created new disease assets to extend patient ed. Funded by Allergan.

### Aware-Entertainment

June 2003 to August 2003, Knoxville, TN

Gaming internship focus on low poly 3D modeling, texture baking and normal mapping. Assets tested within the game engine to observe real time lighting and bumping effects.

### Freelance Digital Media

August 2000 to August 2004, Johnson City and Knoxville, Tennessee

Marketed and provided web development, graphic design and illustration services.

### City of Oak Ridge

August 1999 to May 2000, Oak Ridge, Tennessee

AutoCAD Engineering Aide for Public Works Department and City Civil Engineers. Performed maintenance and updates to industrial, commercial, and residential utility maps.

## Education

### Master of Science Biomedical Visualization, University of Illinois at Chicago

August 2004 to July 2006, Chicago, Illinois

3d medical animation concentration. As a teaching aide assisted classmates in various projects and also delivered original lectures. Project Research: "Conjunctivitis and Bacterial Keratitis, Visualizing External Eye Disease in the Virtual Eye". College of Applied Health Sciences Student Achievement Award presented at commencement.

### Bachelor of Science Digital Media, East Tennessee State University

August 2000 to July 2003, Johnson City, TN

3d animation focus with foundations in studio art and biology. Emphasis on character modeling / rigging, team animation and environment design. Honors Thesis "Visualizing the Human Knee" combined 3d animation and video of my first human anatomy dissection.

### A.A.S. and A.S., Pellissippi State Technical Community College

August 1996 to May 2000, Knoxville, TN

Computer Integrated Drafting and Design major. Interests progressed from architectural and technical sketching to AutoCAD, ProEngineer, and finally 3ds Max product assemblies.

## Expertise

Poly Modeling  
Digital Sculpting  
Dataset Model Extraction  
Retopology  
Animation Techniques  
Compositing  
Volume Rendering  
Stereoscopy  
Research

## Tools

PC, Mac, Linux  
3ds Max  
BackBurner  
Mental Ray  
Mudbox  
ZBrush  
Maya  
Adobe  
Osirix  
Fovia  
Slicer  
Mimics  
mMaya / Chimera  
HTML / CSS  
JavaScript/ jQuery

## Clients

Allergan  
Bristol-Myers Squibb  
ConvaTec  
Edward Heart Hospital  
eHuman  
MIT  
Northwestern University  
Pearson Publishing  
Pretzel & Stouffer  
St. Jude Neuro  
UIC Ophthalmology  
Valeant Pharmaceutical

## Teaching Achievements

2011 Mentor, 4 Vesalian Scholars  
2011 Excalibur Award, student elected  
2009 Mentor, 2 Vesalian Scholars  
2007 Netter Award for Virtual Eye  
2007 CAHS Educator of the Year  
2007 Excalibur Award, student elected

## Presentations

2011 AMI Workshop, Digital Harvesting  
2011 AMI Techniques Session, Mudbox  
2010 CG Society Chicago  
2007 AMI Concurrent, Virtual Eye

## Professional

Assoc of Medical Illustrators, Member