Résumé of
STEVEN BEIER, M.S.

Kineticorp™

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EDUCATION:

B.A. Neuroscience, Pomona College, 1996
M.S. Neuroscience, Stanford University, 2006
Certificate, Computer Animation, Rhode Island School of Design, 2008

EXPERIENCE:

Animator, Department of Visualization, Kineticorp LLC, Denver, Colorado, November 2012 to Present
Freelance Animation and Rendering, 2010 to 2011, specializing in architectural rendering and animation for cultural institutions
Architectural Visualization, WHY Architecture, Los Angeles, California, July 2007 to November 2009
Doctoral Candidate, Stanford University School of Medicine, October 1999 to January 2006
Research Assistant, University of California, San Francisco 1999
Research Assistant, City of Hope, Beckman Research Institute 1996 to1998

Mr. Beier's early work in neuroscience research focused on video imaging of calcium ion transients in single hippocampal neurons in conjunction with electrophysiological recordings of neural activity. He then went on to study the proliferation and differentiation of neural stem cells and precursor cells in the developing and adult brain.

He has experience with the following biological sciences laboratory techniques:

- Fluorescence, confocal, and multi-photon microscopy with experience in image analysis using MATLAB
- Single-cell electrophysiological recording
- Immunofluorescent staining of cells and tissue
- Recombinant DNA design and construction
- Isolation and maintenance of neuronal cells and tissue in culture
- Microarray-based gene expression profiling and analysis
- Micro-patterning of neuronal growth substrates

FORENSIC ENGINEERING AND VISUALIZATION:

Mr. Beier is an Animator at Kineticorp, specializing in the development of technical graphics and animations relating to accident analysis and reconstruction. His technical skills include three-dimensional modeling, lighting, rendering, and animation, with additional experience developing real-time graphics for web and mobile devices. His experience in development for mobile devices includes scene optimization for mobile publishing, scripting for interactivity, and custom shader writing. Past projects have included photogrammetric reconstruction of cultural heritage sites, real-time architectural visualization, and apps designed to educate through the use of visualization.

Steven Beier, M.S.
Animator, Department of Visualization

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PUBLICATIONS

1. Beier, S.M. & Barish, M.E**.** (2000) Cholinergic stimulation enhances cytosolic calcium ion accumulation in mouse hippocampal CA1 pyramidal neurons during short action potential trains. J Physiol 526, 129-142.

2. Gobbel, T., Choi, S., Beier, S., Niranjan, A. (2003) Long-term cultivation of multipotential neural stem cells from adult rat subependyma. Brain Research 980, issue 2, 221-232.

3. Ko, D., Milenkovic, L.,Beier, S., Manuel H., Buchanan, Scott, M. (2005) Cell-Autonomous Death of Cerebellar Purkinje Neurons with Autophagy in Niemann-Pick Type C Disease. PLoS Genetics 1:81-95