

## EDUCATION

Johns Hopkins University  
School of Medicine,  
Baltimore, MD  
**M.A. in Medical and  
Biological Illustration,**  
*Thesis: Molecular Mechanism  
of HIV Entry, 2014*

Smith College,  
Northampton, MA  
B.A. in Biological Sciences  
with Highest Honors,  
Studio Art minor,  
*magna cum laude, 2012*

## SKILLS

### Animation & 3D

Storyboarding  
Scripting  
ZBrush  
Cinema 4D  
ePMV  
Osirix  
After Effects  
UCSF Chimera

### Illustration & Design

Photoshop  
Illustrator  
InDesign  
Graphite pencil  
Watercolor  
Pen & ink

### General

Project management  
Telecollaboration  
Presentation design  
Research  
Writing

### Scientific Expertise

Anatomy  
Histology  
Physiology  
Structural Biology  
Cell Biology  
Immunology

## WORK EXPERIENCE

### Principal, Illustrator and Animator, 2014 - present

*Falconieri Visuals, North Bethesda, MD*

Created engaging and effective visuals for broad range of clients using advanced animation, illustration, and design techniques.

### Biomedical Illustrator, 2014 - present

*Subramaniam Lab, National Institutes of Health, Bethesda, MD*

Collaborated with researchers to create illustrations and animations of molecular and cellular subject matter for publication and outreach. Designed print and electronic materials for presentations and lab reviews.

### Animator and Research Assistant, 2013 - 2014

*Subramaniam Lab, National Institutes of Health, Bethesda, MD*

Produced 3D animation about HIV entry . Collaborated with researchers to postulate and create model of HIV's envelope glycoprotein mechanism. Adapted complex molecular knowledge into format appropriate for lay audience.

### 2D Animator, 2013

*Johns Hopkins Hospital, Baltimore, MD*

Scripted, storyboarded, and produced *Celiac Plexus Block for Pancreatic Cancer Pain* animation for *The Johns Hopkins iCareBook for Pancreatic Cancer iPad App*.

### Honors Thesis and Research, 2010 - 2012

*Scordilis Lab, Smith College, Northampton, MA*

Researched protein localization using immunofluorescent labelling, epifluorescent, and laser scanning confocal microscopy. Analyzed 3D models of cells and calculated protein colocalization. Optimized protocols and developed new techniques.

## AWARDS & HONORS

2014 Alan Cole Scholarship, *The Vesalius Trust*

2013 Frank H. Netter, M.D. Memorial Scholarship in Medical Art, *Johns Hopkins University*

Ranice W. Crosby Scholarship, *Johns Hopkins University*

William P. Didusch Scholarship, *Johns Hopkins University*

Elinor Widmont Bodian Scholarship in Medical Art, *Johns Hopkins University*

The Third Dimension Juried Art Show, *3DCamp Houston*

2012 Drescher Award for Graduate Medical Research, *Johns Hopkins University*

Excellence in Leadership Award, *Smith College Residence Life*

2011 Phi Beta Kappa Honors Society, *Smith College*

## PRESENTATIONS

### 2015 **Workshop: Advanced ePMV Techniques**

• July 22<sup>nd</sup>, Association of Medical Illustrators Conference, Cleveland, OH

### **The Cryo-Revolution: Cryo-EM's Impact on Structural Biology**

• July 24<sup>th</sup>, Association of Medical Illustrators Conference, Cleveland, OH

### **Molecular Research Strategies**

• May 1<sup>st</sup>, Johns Hopkins Art as Applied to Medicine, Baltimore, MD

### 2014 **The Molecular Mechanism of HIV Entry**

• April 26<sup>th</sup> Biocommunications Academic Meeting, Toronto, Ontario

• July 25<sup>th</sup>, Association of Medical Illustrators Conference, Rochester, MN

### **Making Sense of Molecular Databases: Using the PDB and EMDB**

• May 19<sup>th</sup>, Johns Hopkins Art as Applied to Medicine, Baltimore, MD

### 2013 **From X to Z: Taking X-Ray CT Data from Osirix to ZBrush**

• July 20<sup>th</sup>, Association of Medical Illustrators Conference, Salt Lake City, UT

• August 1<sup>st</sup>, XVIVO Scientific Animation, Wethersfield, CT