

# CHINAMI MICHAELS

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## DESIGN PHILOSOPHY

**Design that makes a difference.** I translate complexity into clarity.

## EXPERIENCE

Mar 2018- current

### Neuroscience Publications Department | Barrow Neurological Institute

#### Medical Video Editor & Multimedia Specialist

- I do UX research and run user-tests for a Virtual Reality Spine Surgery training app for the Sonntag Spine Center. The user-testing I established was crucial to create a VR product that could be used neurosurgical residents to train at home.
- I taught two summer interns the basics of user-testing. The graphics design intern tested a wireframed and high-fidelity mobile version of the Bypass coder app.
- I edit over 150 neurosurgical videos a year for academic publication and for social media. The videos are watched by most cerebrovascular neurosurgery residents.

2020 - Present

### Chinami Michaels Biomedical Visualization Studio

#### Freelance

- I create 3D animations and medical illustrations for research scientists and doctors.

Oct - Dec 2017

### SciStories LLC

#### Medical and Science Illustration Intern

- I created vector graphics and science figures for research scientists in Adobe Illustrator.

Jan 2016 - July 2017

### University of Illinois College of Medicine

#### Biomedical Visualization Master's Research Project

- I was the first graduate student to use eye-tracking to assess an animation's perception and analyze its effectiveness at generating interest in expert and novice audiences.
- I conceptualized and produced an animation to explain the emerging research topic of regulating vascular permeability via the lung endothelial glycocalyx, to researchers and clinical physicians at seminars.

Jun - Aug 2013

### Arizona State University Center for Biology & Society, The Embryo Project Encyclopedia

#### Science Illustration Multimedia Founding Intern, Visiting Scholar

- I created developmental biology illustrations with Embryology researchers and an Editor for a Digital Humanities online encyclopedia on the ways ethics, legislation and science have impacted the embryology field. [embryo.asu.edu](http://embryo.asu.edu)

Jun - Aug 2012

### Tufts Neuromechanics and Biomimetic Devices Laboratory

#### Undergraduate Researcher

- I designed experiments to trace the abdominal motor neurons of *Manduca sexta* caterpillars and create a 3D model.

2010 - 2015

### Breakthrough: Tufts Undergraduate Science Research Magazine

#### Creative Director + Co-Editor-in-Chief

- I oversaw all visual aspects of a print magazine, from illustrations to layout. I directed layout assistants, photographers and artists.

## EDUCATION

2017

**University of Illinois at Chicago:** Department of Biomedical and Health Information Sciences  
M.S., Biomedical Visualization | Chicago, IL

2015

**Tufts University/School of the Museum of Fine Arts, Boston:** 5-Year Dual Degree Program

B.S., Biology, *magna cum laude* | Medford, MA

B.F.A., Studio Art | Boston, MA

Dean's List (all years)

## VOLUNTEER

2021 - Present

I co-led, established, and managed a Diversity Outreach group in the Neuroscience Publications department, which led to six presentations to underrepresented local Phoenix high school and middle school students and three paid internships for two college students and one high school student. I am very proud of this.

2016- Present

Association of Medical Illustrators | Mentor

## RELEVANT SKILLS

### INTERACTIVE MEDIA

Virtual Reality  
User-testing  
Unity | C#  
Wireframing  
UX/UI

### ANALYTICAL

Audience Profiling  
Eye-tracking  
Experimental Design  
Biostatistics

### DESIGN

Storyboarding  
Photoshop  
Illustrator  
InDesign

### MARKETING

Ethical Search Engine  
Optimization (SEO)

## OTHER SKILLS

### 3-D MODELING

Pixologic Zbrush  
3ds Max

### ANIMATION

3ds Max  
Maya

### BIOMEDICAL

VISUALIZATION  
OsiriX  
Visual Molecular  
Dynamics  
Molecular Visualization

### VIDEO EDITING

Premiere Pro  
After Effects  
Audacity  
Audition

### SCIENCE

Neurosurgery  
Neurobiology  
Neuroanatomy  
Human Anatomy