



CHINAMI MICHAELS

Biomedical Visualization

chinamimichaels.com | cmicha9@uic.edu | +1-617-460-1452 | 0811A SSR, 809 South Damen Ave, Chicago, IL 60612

EDUCATION

Anticipated 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)

ART SKILLS

ANIMATION
Audition
After Effects
Final Cut Pro
Storyboarding

3-D MODELING
ZBrush
Mudbox
3ds Max
Autodesk CAD
Molecular Maya
Inventor Professional

EXPERIENCE

RESEARCH

DevTech Research Group at Tufts University | Medford, MA
Research Assistant

- Assessed children aged 4-8 years old to compare their systematic computational skills before and after learning programming with ScratchJr or KIBO Robot.

July 2015–Aug 2015

June 2012-Aug 2012 **Tufts Neuromechanics and Biomimetic Devices Laboratory** | Medford, MA
Undergraduate Researcher For Credit

- Assessed if nerve fills could trace dorsal abdominal motor neurons of Tobacco Hornworm caterpillars (*Manduca sexta*). Refined a 3-D model of their abdominal muscles and developed a new caterpillar dissection method.

ILLUSTRATION

June 2013-Aug 2013 **Arizona State University Center for Biology & Society, The Embryo Project Encyclopedia** | Tempe, AZ
Science Illustration Multimedia Founding Intern, Visiting Scholar

- Created developmental biology illustrations, consulted Embryology researchers and worked with an Editor to write appropriate figure captions for a Digital Humanities online encyclopedia of the ways ethics, legislation and science have impacted the embryology field. embryo.asu.edu

ILLUSTRATION
Bridge
InDesign
Illustrator
Lightroom
Photoshop
Corel Painter

BIOLOGY TEACHING

Sep 2014 –May 2015 **Tufts University Academic Resource Center (ARC)** | Medford, MA
Group Study Session Biology Tutor

- Led weekly study groups of twenty-four Tufts University undergraduates.

2011 - 2015 **Tufts University Academic Resource Center (ARC)** | Medford, MA
On-Call Tutor for Biology

- Tutored genetics and biology to Tufts University students one-on-one.

2011 - 2014 **Tufts University Cells and Organisms & Organisms and Populations Laboratory** | Medford, MA
Undergraduate Teaching Assistant

- Assisted biology graduate student teaching assistants in teaching laboratory classes of 30 students by clarifying biology laboratory techniques.

VISUAL ART
Painting
Sculpture
Photography
Graphic Design
Studio Lighting
Technical Drawing

BIOMEDICAL IMAGE VISUALIZATION
OsiriX
VolView
ITK-Snap
Materialise Mimics
Visual Molecular Dynamics

PUBLISHED ILLUSTRATIONS

2011-2016 Medford, MA **Breakthrough: Tufts Undergraduate Science Research Magazine** | Tufts University
Access at ase.tufts.edu/breakthrough

2014 Sunderland, MA **The Readable Darwin: The Origin of Species as Edited for Modern Readers** | Pechenik, Jan. A. | Sinauer Associates, Inc., 2014. | ISBN:978-1-60535-328-9

2013 Tempe, AZ **Embryo Project Encyclopedia** | The Embryo Project | Tempe Arizona State University. School of Life Sciences. Center for Biology and Society. Arizona Board of Regents. | ISSN: 1940-5030

A Fate Map of the Chick Embryo <http://embryo.asu.edu/handle/10776/7562>
The Blastoderm in Chicks During Early Gastrulation <http://embryo.asu.edu/handle/10776/7561>
Frog Embryo in the Blastula Stage <http://embryo.asu.edu/handle/10776/6691>
The Process of Gastrulation in Frog Embryos <http://embryo.asu.edu/handle/10776/6692>
Some of the Cells that Arise from Animal Gastrulas with Three Germ Layers <http://embryo.asu.edu/handle/10776/8153>

2009 Tokyo, Japan **Introduction to Neuroinformatics-from beginners to IT engineers** | Fukuda, Jun Takao, M. Takao, M. Sakakibara, S. Naito, T. Horikoshi, and T. Ozeki. | Corona Publishing Co. LTD, 2009. | ISBN-10: 4339024368

LEADERSHIP EXPERIENCE

**Breakthrough:
Tufts
Undergraduate
Science Research
Magazine**
Medford, MA
2011 -2015

- Co-Editor-in-Chief | Creative Director** | Fall 2014 - Spring 2015 | ase.tufts.edu/breakthrough
- Oversaw all visual aspects of a print magazine, from illustrations to layout. Coordinated with the Managing Editor and the Senior Content Editor to ensure timely publication of magazine. Maintained quality standards, held efficient meetings and planned activities.
 - Held workshops to teach Adobe CS for layout, image editing and illustrating.
 - Organized and directed layout assistants, photographers and artists. Initiated layout templates and a style guide.

Co-Treasurer & Signatory | Fall 2014 - Spring 2015
Increased budget by a third through successful petition for supplementary funding.

Art and Layout Director | Fall 2013 - Spring 2014
Layout Assistant and Illustrator | Fall 2012 - Spring 2013
Illustrator | Fall 2011 - Spring 2012

**Art in April:
Dual Identity
and Nostalgia**
Medford, MA
2014, 2015

- Co-Founding Curator and Exhibitor** | Spring 2014, Spring 2015
- Established, organized and curated the first of a now annual month-long art exhibit that highlights artwork by Tufts students and SMFA students in collaboration with the Dean of Combined Degree students.

OTHER SKILLS

SCIENCE
Genetics
Physiology
Embryology
Immunology
Microbiology
Neuroscience
Marine Biology
Human Anatomy
Molecular Biology

INTERACTIVE MEDIA
Unity
Bootstrap
Paper Prototyping
UX in Virtual Reality

HONORS & AWARDS

- 2015 UIC Graduate College Board of Trustees Tuition Waiver Recipient
| *College of Applied Health Sciences, UIC* |
- 2013 Tufts Career Center Summer Internship Grant for Non-Profits, Public Sector
| *Tufts University* |
Founding intern for the Embryo Encyclopedia Project.. Furthered knowledge of science visual communication and how the field of embryology and stem cell research has been impacted by legislation, ethics and science innovations.
- 2011 Dehn Travel Grant Fellowship | *School of the Museum of Fine Arts* |
Furthered knowledge of color use in science, art, industry, and design by attending the Association Internationale de la Couleur Midterm Meeting in Zurich, Switzerland.
- 2009 Balfour Foundation Merit Scholarship | *Rhode Island School of Design* |
Full scholarship to study oil-Painting and drawing at Rhode Island School of Design (RISD) Pre-College Program
- 2008 Surdna Foundation Merit Scholarship | *Maryland Institute College of the Arts* |
Full scholarship to study studio art at Maryland Institute College of the Arts (MICA) Pre-College Program

ANALYTICAL
SPSS
STATA
Biostatistics

LANGUAGES
C#
CSS/HTML

Japanese - fluent
Italian - beginner
French - Semi-conversational

SYMPOSIA & PRESENTATIONS

- 2014 Career Services Summer Internship Grant Recipients
Poster Presentation of Internship as Science Illustration Multimedia Founding Intern
- 2013 Tufts University Undergraduate Research Symposium
Poster Presentation of Summer Neurobiology Research

EXHIBITIONS

- 2015 Student Association of Medical Artists | National Museum of Health & Medicine Chicago
- 2015 Art in April: Work In Progress | Tufts University
- 2014 Art in April: Dual Identity and Nostalgia | Tufts University
- 2014 MassRecycle Awards Show | Solo Exhibition
- 2015 Collections | William Morris Hunt Memorial Library, the Museum of Fine Arts Boston

VOLUNTEER EXPERIENCE & ACTIVITIES

- 2016 Student Volunteer | AMI Conference | Atlanta, GA
- 2013 Science Workshop Leader | Strong Women Strong Girls | Medford, MA,
- 2012 Chassis Team Member | Tufts Hybrid Car Racing Team | Medford, MA,