

EDUCATION **University of Illinois at Chicago**, Chicago, IL, 2015

Master of Science in Biomedical Visualization

Project Research: Design of customized mobile application for patient adherence to oral anticancer medications utilizing user-centered design

Harvard University, Cambridge, MA, 2013

Master of Liberal Arts in Biotechnology (Life Science concentration)

Thesis: Clustering analysis and network functional analysis of proteins identified in HL60 cells and neutrophils undergoing NETosis

School of the Museum of Fine Arts, Boston, MA, 2011

Continuing Education courses on design, figure painting and computer graphics

University of Waterloo, Waterloo, ON, 2004

Bachelor of Science, Honours Biochemistry, Co-operative Education Program

RELEVANT WORK EXPERIENCE **Scientific Animator**, University of Utah

Oct 2018 – Present, Salt Lake City, UT

- Create original storyboards, 2D/3D illustrations and animations
- Work closely with a team of researchers and other animator/illustrators in the Lab
- Communicate effectively with scientific collaborators and provide constructive feedback and mentorship to others in the team

Experiential Instructional Designer-Developer, Jump Simulation and Education Center
Sep 2016 – Oct 2018, Peoria, IL

- Through collaboration with other team members, design and create engaging and effective instructional materials with sound instructional design principles
- Create interactive eLearning, medical illustration and animations using Adobe CC
- Develop and provide recommendations for design, sequencing of instruction, use of assessments, and design of educational materials and activities
- Ensures communication, coordination, development and integration of educational work plan with all areas affected, including course facilitators, instructors, end users, information services, technology integration and site leadership as needed

Freelance Medical Illustrator/Storyboard Artist

Jan 2014 – Present

- Responsible for all aspects of the creative process from initial consultation to final deliverables
- Designed a cover submission for Nature on the topic of oncogenic enhancer profiling
- Created 3D molecular illustration of antibodies binding to potassium channels for TetraGenetics Inc's website

Creative and Communications Lead, LifeLearn Inc.

Feb – Jul 2016, Guelph, ON

- Designed brochures and logos for veterinary branding and marketing, used by clients at Western Veterinary Conference 2016
- Led a website re-branding project for a veterinary ultrasound company. Created wireframes and UI designs based on interviewing key stakeholders

Interactive Designer/Animator, Boyd Lab, University of Illinois at Chicago

Aug 2014 – May 2015, Chicago, IL

- Designed user interface for mobile application and produced wireframes for interactive components
- Engaged and collaborated with stakeholders, end users and programmer
- Created 2D animations to explain medication information for low literacy patients

SKILLS SOFTWARE

Adobe Illustrator	● ● ● ● ○
Adobe Photoshop	● ● ● ● ○
Adobe InDesign	● ● ● ● ○
Adobe After Effects	● ● ● ● ○
Adobe Premiere	● ● ● ○ ○
Adobe XD	● ● ● ● ○
ZBrush	● ● ○ ○ ○
Autodesk 3ds Max	● ● ○ ○ ○
Autodesk Maya	● ● ● ○ ○

KNOWLEDGE

Storyboarding
 3D modeling/Animation
 Wireframes & prototyping
 UI/UX design
 Mobile app design
 2D Animation
 Proposal writing
 Illustration
 Research & Development

SERVICE &
MEMBERSHIP

Society for Simulation in Healthcare Member, 2016 – 2017
 American Medical Informatics Association Student Member, Jan 2015 – Jan 2016
 Association of Medical Illustrators Meeting Volunteer, 2014
 Treasurer of the Student Association of Medical Artists, UIC, May 2014 – May 2015
 Association of Medical Illustrators Professional Member, Sep 2013 – Present
 Representative on the Harvard Graduate Council, Sep 2012 – Apr 2013

AWARDS &
GRANTS

Jump ARCHES 2017 grant recipient for KneeVIEW: A Virtual Education Window for Musculoskeletal Training
 Nelva B. Richardson Scholarship from Biomedical Visualization Program at UIC, 2015
 UIC Graduate Student Travel Award, 2015
 Vesalius Trust Research Grant, 2015
 UIC Women In Science and Engineering Graduate Student Research Award Honorable Mention, 2015
 Scientific Innovation Team Award for galactose- α -1,3-galactose Project at Momenta Pharmaceuticals, 2010
 Award for Team Spirit for Sanofi Pasteur's Melanoma Project, 2005
 Institute of Biochemistry and Molecular Biology Work Report Award, 2003
 The Herbert H. Carnegie Future Aces Foundation Scholarship, 1999
 Ontario Scholar, 1999

- PRESENTATION** AMI Annual Meeting. July 18-21, 2018, Newton, MA.
Title: "Technology, Design and Growing Opportunities in Simulation-based Education"
- American Thoracic Society International Conference. May 18-23, 2018, San Diego, CA
Title: "Gamifying Tobacco-Free Kids: Employing Medical Visualization and Games in Youth Anti-Tobacco Outreach."
- Spectrum of Ideas Showcase at IMSH. January 14, 2018, Los Angeles, CA
Title: "Engaging Young Minds: Getting Adolescents Thinking About Health"
- Poster Presentation: Crawford SY, **Hsu GI**, Wirth SM, Cuellar S, Venepalli NK, Nayak AK, Boyd AD. Patient-centered design in developing mobile application to improve adherence to oral anticancer medications. American Pharmacists Association (APhA) Annual Meeting & Exposition. San Francisco, CA. March 25, 2017.
- Poster Presentation at UIC Student Research Forum. April 2, 2015, Chicago, IL
Title: "Design of Customized Mobile Application for Patient Adherence to Oral Anticancer Medications Utilizing User-Centered Design and Animation"
- Poster Presentation and Lighting talk at Visualization of Biological Data Meeting. March 26, 2015, Cambridge, MA
Title: "Communicating Research using Visual Molecular Dynamics (VMD)"
- Stenstrom Scholars Presentation at O.A. Parkes Symposium & International Student Conference. March 13, 2015, Augusta, GA
Title: "Molecular Visualization using Visual Molecular Dynamics (VMD)"
- Invited talk at Consumer Health Informatics Midwest Conference. Oct 25, 2014, Fort Wayne, IN
Title: "Mobilizing for patient adherence to oral anticancer medications"
- EXHIBITION** Association of Medical Illustrators Annual Meeting Student Salon, Jul 2015, Cleveland, OH
- Northwestern Public Health Reviews Annual Public Health Matters Seminar gallery exhibition of editorial illustration, Oct 2014, Chicago, IL
- Association of Medical Illustrators Annual Meeting Student Salon, Jul 2014, Rochester, MN
- Student Association of Medical Artists Art Show, Nov 2014, Chicago, IL
- National Museum of Health + Medicine Chicago, "Visible Human Male: Visualization of healthy and diseased organs", Jun 2014, Chicago, IL
- Biocommunication Academic Meeting, Salon digital showcase, April 2014, Toronto, ON
- PUBLICATION** Bosques CJ, Collins BE, Meador JW III, Sarvaiya H, Murphy JL, Bulik DA, Hsu IH, Washburn N, Sipsey S., Myette JR, Raman R, Shriver Z, Sasisekharan R, and Venkataraman G (2010). "Chinese hamster ovary cells can produce galactose- α -1,3-galactose antigens on proteins." *Nature Biotech.* 28 (11). 1153-1156.
- Hsu GIH, Crawford SY, Paoella G, Wirth SM, Cuellar S, Venepalli NK, Wang E, Hughes D, and Boyd AD (2017). "Design of Customized Mobile Application for Patient Adherence to Oral Anticancer Medications Utilizing User-Centered Design." *Journal of Biocommunication*, [S.l.], v. 41, n. 1. ISSN 0094-2499.

CERTIFICATION **Board Certified Medical Illustrator**

