

Jacqueline Mason

Medical Visualization and Education

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EDUCATION

Certified Medical Illustrator
06/2022

Master of Science
Biomedical Visualization
05/2017

University of Illinois at Chicago,
Chicago, IL

Master of Education
Technology, Innovation & Education
Concentration in serious game design
05/2014

Harvard University,
Cambridge, MA

Bachelor of Science
Computer Graphics Technology
12/2011

Minors in Biology and Psychology
Dean's List and Semester Honors
Purdue University,
West Lafayette, IN

PROFICIENCIES

Technical & Tool Summary:

- Unity 3D
- Zbrush
- Autodesk Maya
- Substance Painter
- Marmoset Toolbag
- Adobe Photoshop
- Adobe Illustrator
- Adobe InDesign
- Adobe After Effects
- Materialise Mimics
- Visual Molecular Dynamics
- AR dev (Vuforia)
- C#
- HTML
- CSS

Self-directed and quality-driven with
a high work ethic, positive attitude, and
team-player mentality.

WORK EXPERIENCE

05/2019 - Present **MEDICAL ILLUSTRATOR/3D ORGANIC ARTIST**
OssoVR – Remote

Improving patient safety, decreasing the cost of surgical training
and increasing adoption of cutting-edge medical devices

- On the Medtech team (past): worked with clients and subject matter experts to break down complex surgical techniques into well defined sections, steps, and interactions and define overall learning goals
- Generated surgical training content utilizing Osso's custom scripting toolset within Unity
- On Art team (current): Create models in Zbrush/Maya based upon real-world and conceptual references
- Create low-poly, real-time ready models, textures and materials
- Work within Unity engine to preview, iterate, optimize, and polish models to adhere to performance budgets and other run-time requirements
- Work collaboratively with the Art Director, Senior leadership, and all other disciplines including Tech Art and Production to help set and maintain the quality standard across the team

08/2018 - 05/2019 **TECHNICAL ARTIST**
Health Scholars – Champaign, IL; Denver, CO

Advancing immersive education and clinical training effectiveness

- Guide art team on technical, medical and visual requirements for assets and animations for VR projects
- Collaborated with developers to integrate 3rd party tools and optimize production pipeline
- Assisted with the production of 2D and 3D content in Maya and Unity including models, textures, lighting, particle systems and illustrations
- Contributing to vision and strategy and exploring solutions through storyboarding and prototyping

05/2017 - 08/2018 **BIOMEDICAL COMMUNICATOR**
Health Scholars – Champaign, IL; Denver, CO

Advancing immersive education and clinical training effectiveness

- Designed scientifically-accurate 3D models, illustrations, and interactive experiences to convey medical information
- From concept to delivery, led the development of a successful multi-platform medical education app:
 - Communicated concepts to the client and developers through storyboards, wireframes, mockups and prototypes
 - Incorporated game design principles that supported and bolstered the learning objectives
 - Monitored progress ensuring content was delivered on time and on budget

PUBLICATIONS

Powley, T. L., Baronowsky, E. A., Gilbert, J. M., Hudson, C. N., Martin, F. N., Mason, J. K., ... & Phillips, R. J. (2013). Vagal afferent innervation of the lower esophageal sphincter. *Autonomic Neuroscience*, 177(2), 129-142.

Powley, T. L., Hudson, C. N., McAdams, J. L., Baronowsky, E. A., Martin, F. N., Mason, J. K., & Phillips, R. J. (2014). Organization of vagal afferents in pylorus: Mechanoreceptors arrayed for high sensitivity and fine spatial resolution?. *Autonomic Neuroscience*, 183, 36-48.

Powley, T. L., Mittal, R. K., Baronowsky, E. A., Hudson, C. N., Martin, F. N., Mason, J. K., ... & Phillips, R. J. (2013). Architecture of vagal motor units controlling striated muscle of esophagus: Peripheral elements patterning peristalsis? *Autonomic Neuroscience*, 179(1), 90-98.

AWARDS & EXHIBITIONS

UIC Image of Research Competition | 2nd place in the moving images category 2017

UIC Graduate College Board of Trustees Tuition Waiver Recipient Fall 2015

Student Association of Medical Artists Show | National Museum of Health & Medicine Chicago Fall 2015

RELATED EXPERIENCE

07/2014 - 07/2015 INSTRUCTIONAL DESIGNER

Everspring Inc. – Chicago, IL

Partnered with university faculty to create effective online education experiences

- Identified multimedia needs and developed courses in the Canvas Learning Management System
- Managed multiple projects and timelines
- Constructed pedagogically-sound course content with UDL and UXD principles in mind

09/2013 - 12/2013 MEDIA INTERN

WGBH-NOVA – Boston, MA

Contributed to NOVA web-based media projects

- Researched and developed ideas for NOVA's *Gross Science*; assisted with filming; developed assets for a *Gross Science* short about sloths.
- Editorial contributions for NOVA's *Making Stuff* weekly online quizzes
- Researched content, gathered media, and shared ideas for NOVA Labs

12/2011 - 07/2013 VISUAL TECHNICIAN

Purdue University – West Lafayette, IN

Assisted Dr. Robert Phillips and Dr. Terry Powley on research projects in the Department of Behavioral Neuroscience Psychology.

- Created illustrations and assisted with data collection, analysis of findings, and translating findings into schematics.
- Produced published illustrations of rat stomach anatomy
- Analyzed the morphology of stomach innervation by mapping novel nerve fibers via the software, NeuroLucida.

ORGANIZATIONS AND VOLUNTEER WORK

02/2016 - present MEMBER

Association of Medical Illustrators

08/2015 - 06/2017 TWITTER CONTENT CURATOR

Student Association of Medical Artists – Chicago, IL

Maintained the Biomedical Visualization Twitter page

08/2014 - 06/2015 FLOOR FACILITATOR VOLUNTEER & SPACE VISUALIZATION LAB ASSISTANT

Adler Planetarium – Chicago, IL

Through inquiry-based learning and hands-on activities, encouraged Adler visitors to engage more deeply with exhibits and science content.

09/2013 - 05/2014 MEMBER | WEBSITE MANAGER

Brain Basics – Cambridge, MA

02/2009 - 12/2012 MEMBER | SECRETARY

Raising Awareness of International Medicine – West Lafayette, IN