

SYDNEY AGGER

BIOMEDICAL ANIMATOR / ILLUSTRATOR

www.aggerillustration.com | 617.417.9005 | sydneyagger@gmail.com

SKILLS

DIGITAL ILLUSTRATION

Adobe Creative Suite

3D MODELING/ANIMATION

Autodesk 3ds Max

Autodesk Mudbox

Pixelogic Zbrush

Blender

Renderers: Arnold, VRAY

Keyshot

TyFlow

Substance Designer, Painter

INTERACTIVE MEDIA

HTML, CSS, Bootstrap

SDKs: VRTK, Vuforia

Unity 3D and C#

Wordpress

MOLECULAR VISUALIZATION

Protein Data Bank (PDB)

Visual Molecular Dynamics

GENERAL

3D Modeling

3D and 2D Animation

Game Design

Graphic Design

Digital Illustration

Traditional Illustration

Molecular Visualization

Storyboarding

UI/UX Design

Web Design

HONORS + AWARDS

AWARD OF MERIT

AMI Salon

Surg/Clin Illustration • 2021

FIRST PLACE, PEOPLE'S CHOICE

Vesalius Trust-A-Thon

\$1,953 raised

Team Studio Bivly • 2021

EDUCATION

M.S. BIOMEDICAL VISUALIZATION • 2020 - Expected 2022

Masters Research: *The Influence of Textual Elements*

in 3D Animation for a Medical Student Audience

University of Illinois at Chicago • GPA: 4.0

B.A. BIOLOGY WITH HONOR • 2012 - 2016

Minor: Psychology

Thesis Research: *The role of caspase DRONC in tissue remodeling of the larval fat body during Drosophila melanogaster metamorphosis*

Mount Holyoke College • GPA: 3.27

EXPERIENCE

GRAPHIC DESIGNER AND WEBSITE COORDINATOR • 2021 - Present

Department of Obstetrics and Gynecology, UIC

- Designed print materials for faculty affairs and patient education.
- Maintained department website and proposed site-wide updates to improve accessibility and user experience.
- Established department social media accounts.
- Worked closely with supervisor, doctors, and clinical research coordinators on weekly projects.

RESEARCH FELLOW/LAB MANAGER • 2016 - 2020

Circuit Repair Laboratory, Burke Neurological Institute

- Managed lab operations and maintained mouse colony.
- Supervised undergraduate and high school interns through completion of research projects.
- Created scientific illustrations for grant applications and publications.
- Developed behavioral training protocols to assess mouse models of spinal cord injury.

STUDENT ART BOARD PRESIDENT • 2015 - 2016

Mount Holyoke College

- Managed weekly curation for the Student Art Gallery.
- Organized weekly figure drawing sessions.

NEUROLOGY INTERN • 2013 - 2014

Multiple Sclerosis Preclinical Discovery/Pharmacology, Biogen Idec

- Conducted mouse MOG - Experimental Autoimmune Encephalomyelitis model optimization study for critical drug approval and competitor comparison studies.

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MEMBERSHIP

STUDENT ASSOCIATION OF MEDICAL ARTISTS

Student Member/Chair
2020 - Present

ASSOCIATION OF MEDICAL ILLUSTRATORS

Student Member
2020 - Present

LEADERSHIP

SOCIAL MEDIA CHAIR

Student Association of Medical Artists (SAMA)
University of Illinois at Chicago
2021 - Present

VOLUNTEER

BVIS CENTENNIAL COMMITTEE MEMBER

2020 - 2021

ADMINISTRATIVE CLERK VOLUNTEER COORDINATOR

Gemini's Pampered Greyhounds Inc., Amherst, Massachusetts
2015 - 2020

PRESENTATIONS

Agger, S., Krug, N., Markovitz, M., Ruff, K. (2021). Applying to BVIS: 101. SAMA Webinar Series Panelist. Chicago, IL.

Agger, S., Zernick, J., Hampshire, N., Montague, H., DeKok, O. (2020). What is Biomedical Visualization? An Introduction to the Field. SAMA Webinar Series Panelist. Chicago, IL.

SELECTED ART PUBLICATIONS + EXHIBITIONS

Agger, S. (2021). Cover Illustration. *The American Journal of Bioethics*, 21(7), 4-20, <https://doi.org/10.1080/15265161.2020.1863515>

Li, Y. & Hollis, E. (2021). Basal Forebrain Cholinergic Neurons Selectively Drive Coordinated Motor Learning in Mice. *The Journal of Neuroscience*, 41(49), 10148-10160. <https://doi.org/10.1523/JNEUROSCI.1152-21.2021>

Alim, I., Caulfield, JT., Chen, Y., et al. (2019). Selenium Drives a Transcriptional Adaptive Program to Block Ferroptosis and Treat Stroke. *Cell*, 177(5), 1262-1279. <https://doi.org/10.1016/j.cell.2019.03.032>

Hill, C. (2016). A view from the ending: Axonal dieback and regeneration following SCI. *Neuroscience Letters*. 652. <https://doi.org/10.1016/j.neulet.2016.11.002>

ASSOCIATION OF MEDICAL ILLUSTRATORS SALON • 2021

Pieces: "[Lumbar Puncture Procedure](#)"; "[Coral Defense](#)"

VIRTUAL VISUALIZATION: MEDICAL ILLUSTRATION DURING THE COVID-19 PANDEMIC, SAMA SHOW • 2021

Pieces: "Blood Brain Barrier"

SCIENTIFIC PUBLICATIONS + ABSTRACTS

Jara, J. S., **Agger, S.**, & Hollis, E. R. (2020). Functional electrical stimulation and the modulation of the axon regeneration program. *Frontiers in Cell and Developmental Biology*, 8, 736. <https://doi.org/10.3389/fcell.2020.00736>

Serradj, N., **Agger, S.**, Hollis II, E.. (2016). Corticospinal circuit plasticity in motor rehabilitation from spinal cord injury. *Neuroscience Letters*, 652, 94-104. <https://doi.org/10.1016/j.neulet.2016.12.003>

Agger, S., Serradj, N., Meyers, E., Sloan, A., Hollis, E. A supination task to assess corticospinal function in mice. Society for Neuroscience, Chicago IL. 10/22/2019