



SARRAH HUSSAIN

CURRICULUM VITAE

CONTACT

website:
sarrahussain.com

email:
84hussains@gmail.com

Instagram:
@sarrahdraws

EDUCATION

Johns Hopkins University School of Medicine (SOM) - Baltimore, MD

- M.A., Medical and Biological Illustration, 2022-2024
 - **Thesis:** *From Parthanatos to PAANIB-1: a Multimedia Exploration of Cell Death Mechanisms and Therapeutic Strategies for Parkinson's Disease*

Lehigh University - Bethlehem, PA

- M.S., Business Management, President's Scholar, 2021-2022
- B.A., Behavioral Neuroscience, Dean's List, High Honors, 2017-2021
- B.A., Fine Art, Dean's List, High Honors, 2017-2021

SKILLS

Adobe Photoshop
Adobe Illustrator
Adobe After Effects
Adobe InDesign
Adobe Audition

Maxon Cinema4D
Maxon ZBrush
Maxon Red Giant
PyMol, EPMV
Wordpress
UNITY

Pen & Ink, Graphite
Watercolor, Oil

Salesforce CRM
Sage Intacct

PROFESSIONAL EXPERIENCE

Project Manager, Marketing Director, Medical Animator - remote, 2024-present Medmovie, Inc.

- Oversee all project timelines, ensuring seamless production workflows.
- Manage all client accounts, communications, invoices, and scheduling for incoming projects and internal meetings.
- Lead the research, development, and execution of marketing campaigns and promotional material, including lead generation and client acquisition for professional services, licensing, and app development.
- Create 3D animations and pre- and post-production assets for custom life sciences projects.

Medical Illustrator - Padua, Italy, 2021 Piccin Medical Publishing Company

- Worked one-on-one with company supervisor to create detailed digital paintings (Adobe Photoshop) of human anatomy and physiology, for poster print.
- Projects included illustrations of digestive tract, oral cavity, pancreatic duct, arterial system, and mesenteric venous system.

Scientific Illustrator & Research Author - Bethlehem, PA, 2019-2021 The Babcock Lab for Neurogenetics, Lehigh University

- Discovered a new gene in *D. melanogaster* whose loss-of-function mutation causes degeneration of the neuromuscular junction (NMJ).
- Performed thoracic NMJ dissections, fixation, protein blocking, immunofluorescence staining, and data analysis.

ASSOCIATIONS

Association of Medical
Illustrators
- professional member

Saifee Burhani Medical
Association of America
- professional member

PROJECT EXPERIENCE

Medical Animator - Baltimore, MD, 2023

Center for Bioengineering Innovation & Design, Johns Hopkins University

- Created a 2D animation for a novel solution to severe obstructive sleep apnea.

Biological Illustrator - Baltimore, MD, 2023

National Aquarium

- Illustrated morphology and behavior of *Gobiesox strumosus* for poster print.

Medical Illustrator - Baltimore, MD, 2023

Dept. of Otolaryngology, Head and Neck Surgery, Johns Hopkins SOM

- Illustrated anatomy of a Level II-IV Radical Neck Dissection, for Johns Hopkins surgical residents.

Dept. of Interventional Neuroradiology, Johns Hopkins SOM

- Visualized occurrence and behavior of a novel form of spinal osteo-epidural arteriovenous fistula, for research publication.

TEACHING EXPERIENCE

Lead Project Mentor - Bethlehem, PA 2018

Iacocca Global Entrepreneurship Intensive, Lehigh University

- Supervised teams of learners aged 15-17 on real-world consulting projects for local businesses, involving feasibility studies, business plans, marketing strategies, financial planning, and pitch development.
- Led interactive workshops designed to prepare participants for navigating new challenges and professional opportunities, including public speaking, negotiation, design thinking, networking, and ethical decision-making.

PEER-REVIEWED PUBLICATIONS

- "Genome-Wide Analysis Reveals Novel Regulators of Synaptic Maintenance in *Drosophila*" - *Genetics*, April 2023 (Author and Illustrator)
- "Mayday sustains trans-synaptic BMP signaling required for synaptic maintenance with age" - *eLife*, March 2021 (Author and Illustrator)
- "Scholarly Bridges: SciComm Skill-Building with Student-Created Open Educational Resources" - *Milne Library SUNY Geneseo*, 2020 (Illustrator)

OTHER PUBLICATIONS

- Hussain, S., Yu, V. (2020) Portraits of the Brain: Visualizing Behavior and Teaching Students about Neuroanatomy. Iacocca Institute NeuroSalon, Lehigh University.
- Hussain, S. (2018) The Role of Toxic Tau Protein in Alzheimer's Disease. Lehigh Review, Lehigh Undergraduate Research Preserve. 27.
- Kapasi MD, Onaly A. (2015). "Kashmir on Fire," Xlibris Publications. (Cover Illustrator)

EXHIBITIONS

- Hussain, S. (2024) Visualizing Healthcare: National Taiwan University Museum of Medical Humanities, Taipei City, Taiwan.
- Hussain, S. (2024) Visualizing Healthcare: National Taiwan University Hospital Joint Exhibit with Johns Hopkins University, Taipei City, Taiwan.
- Hussain, S. (2024) The Art of Science and Medicine: A Collection of Medical Illustrations and Associated Sketches. The Saifee Burhani Medical Association of America, 2024 Medical Education and Development Strategies Conference, Los Angeles, CA.
- Hussain, S. (2024) From Parthanatos to PAANIB-1: Therapeutic Strategies for Parkinson's Disease. Nucleosome Sliding. The Association of Medical Illustrators 2023 Salon, Rochester, NY.
- Hussain, S. (2024) From Parthanatos to PAANIB-1: Therapeutic Strategies for Parkinson's Disease. The Johns Hopkins University SOM Thesis Presentation and Graduate Show Reception, Baltimore, MD, May 21, 2024.
- Hussain, S. (2023) Left Open Carpal Tunnel Release. Laparoscopic Left Indirect Inguinal Hernia Repair. The Johns Hopkins University SOM Surgical Illustration Presentation, Baltimore, MD, December 7, 2023.

- Hussain, S. (2023) The Art of Science and Medicine: A Collection of Medical Illustrations and Associated Sketches. The Saifur Burhani Medical Association of America, 2023 Medical Education and Development Strategies Conference, Dallas, TX.
- Hussain, S. (2023) Anatomy of Level II-IV Modified Radical Neck Dissection. Spinal Osteo-Epidural Arteriovenous Fistulas (OEAVF). The Association of Medical Illustrators 2023 Salon, Henderson, NV.
- Hussain, S. (2023) Sticking to it! How Skilletfish use Modified Ventral Fins to Create a Powerful Suction Disc. National Aquarium, Baltimore, Maryland.
- Hussain, S. (2021) Senior Thesis Exhibition. Iacocca Institute, Lehigh University, Bethlehem, PA, March -May 2021.
- Hussain, S. (2020) Portraits of the Brain: Visualizing Behavior. Lehigh University, Bethlehem, PA.

AWARDS & HONORS

- Award of Excellence, Animation. Association of Medical Illustrators, 2024.
- Vesalius Trust Scholar, Association of Medical Illustrators, 2024.
- Gwynne M. Gloege Scholarship, The Johns Hopkins University SOM, 2024.
- William P. Didusch Scholarship, The Johns Hopkins University SOM, 2022-24.
- W.B. Saunders Scholarship, The Johns Hopkins University SOM, 2022-24.
- Dean's Slot Tuition Scholarship, The Johns Hopkins University SOM, 2022-24.
- President Scholar, Highest Honor, Lehigh University, 2021-22.
- Iacocca International Internship Award, Lehigh University, 2021.
- Summa cum laude, Lehigh University, 2021.
- Humanities Lab Research Grant, Andrew W. Mellon Foundation, 2020.
- 1st Prize Williams Research Award, Lehigh University, 2019.

SERVICE & LEADERSHIP

- 2023 – Student Representative, Medical and Biological Illustration Graduate Program Advisory Committee, Johns Hopkins University SOM.
- 2022-24 – Social Media Coordinator, Department of Art as Applied to Medicine, Johns Hopkins University SOM.
- 2018-20 – Internal Chair, Marketing Chair, South Asian Students Association, Lehigh University.