




USHMA PATEL

BIOMEDICAL DESIGNER & ANIMATOR

 www.ushma-patel.com

 u.p.design@outlook.com

 (224) 432-8693

SKILLS

TECHNICAL



Design

Graphic Design
Brand Design
UX/UI
Data Visualization



Animation

2D Animation
3D Animation
360/VR Animation
Motion Graphics



Interactive

Web Design
e-Learning
Scientific Gaming



Illustration

2D Illustration
3D Illustration
Digital Painting
Editorial

DIGITAL

Adobe: After Effects
Animate
Illustrator
InDesign
Media Encoder
Photoshop
XD

Autodesk: Mudbox
3DS Max
Maya (in progress)

Blender
Cinema 4D
CorelDRAW
Corel Painter
Figma
HTML/CSS
Krita
Keyshot
Materialize Mimics
Microsoft Office
Pixologic ZBrush
Procreate
Tableau
UCSF Chimera
Unity + C#
Visual Molecular Dynamics (VMD)
Wordpress

LANGUAGE

Fluent: English
Gujarati

Proficient: French
Hindi

EDUCATION

- **M.S IN BIOMEDICAL VISUALIZATION**
University of Illinois at Chicago (UIC) | 05/2020
- **B.S IN NEUROSCIENCE**
Dominican University | 05/2018

SELECTED WORK EXPERIENCE

- **SCIENTIFIC ART DIRECTOR**
Biotech Animated; Contract | 10/2020 - present

Provide art direction and feedback to animators throughout the stages of the animation pipeline

Coordinate with the creative director and account manager to ensure client satisfaction on each project
- **BIOMEDICAL DESIGNER AND ANIMATOR**
Freelance | 08/2020 - present

Collaborate with researchers, animation studios, medical education agencies, and other clients to effectively create animations, 3D images, and design solutions that communicate biomedical topics.

Manage multiple projects at the same time with excellent time management and organizational skills
- **SCIENTIFIC GRAPHIC DESIGNER AND ILLUSTRATOR**
Freelance | 08/2017 - 08/2020

Collaborated with a variety of clients such as scientific laboratories, research teams, and local businesses to create logos, package design illustrations, scientific figure illustrations, editorial/journal covers, as well as other graphic design solutions
- **GRAPHIC / WEB DESIGN GRADUATE ASSISTANT**
University of Illinois at Chicago | 05/2019 - 12/2019

Designed brochures, fliers, and pamphlets for patient education and the Department of Obstetrics and Gynecology departmental events

Worked closely with supervisor, doctors, and clinical research coordinators to update website and create visuals and logos for grants

Completed projects in a fast-paced work environment with time-sensitive and overlapping deadlines
- **CELL BIOLOGY TEACHING ASSISTANT**
University of Illinois at Chicago | 01/2020 - 05/2020

Taught a 300 level cell biology laboratory course to 24 undergraduate students biweekly for approximately 6 hours

Prepared lecture presentations, facilitated laboratory experiments, held office hours, proctored exams, and completed grading on time



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AWARDS & HONORS

Award of Merit – Animation
Association of
Medical Illustrators | 2020

Research Grant Recipient
Vesalius Trust | 2020

Summa Cum Laude
Dominican University | 2018

**Outstanding
Neuroscience Senior**
Dominican University | 2018

Best Drawing Award
Student Art Show,
O'Conner Art Gallery | 2018

**Undergraduate Research
Assistantship Grant**
Dominican University | 2016, 2018

Transfer Merit Scholarship
Dominican University | 2015–2018

University of Toronto Scholar
University of Toronto | 2014–2015

MEMBERSHIP

**Association of
Medical Illustrators**
Professional Member | 2021 – present
Student Member | 2019 – 2020

**Nu Rho Psi National Honor
Society in Neuroscience**
Student Member | 2017–2018

UNIVERSITY OF ILLINOIS AT CHICAGO:

**Student Association of
Medical Illustrators**
Social Media
Team Member | 06/2019 – 05/2020
Student Member | 08/2018 – 05/2019

DOMINICAN UNIVERSITY:

**Commuter Student
Association (CSA)**
Vice President | 08/2017 – 05/2018
Treasurer | 08/2016 – 05/2017
Student Member | 08/2015 – 05/2016

Campus Activities Board (CAB)
Student Member | 2016 – 2018

Graphic Design Club
Student Member | 2016 – 2018

RESEARCH EXPERIENCE

MASTERS RESEARCH PROJECT

University of Illinois at Chicago | 01/2019 – 05/2020

Designed a user-centered interactive application to teach the autonomic nervous system to healthcare professional students

Faculty Advisor: Leah Lebowicz, CMI
Content Advisor: Dr. Alison Doubleday

NEUROSCIENCE RESEARCH ASSISTANT

Dominican University | 05/2016 – 08/2018

Collaborated with a research team to perform behavioral and molecular experiments in *Aplysia californica* to research learning and memory

Supervisors: Dr. Robert Calin-Jageman and Dr. Irina Calin-Jageman

GENETICS RESEARCH ASSISTANT

Dominican University | 08/2015 – 05/2016

Researched aging and longevity using *Caenorhabditis elegans*
Supervisor: Dr. Pliny Smith

VOLUNTEER EXPERIENCE

SOCIAL MEDIA VOLUNTEER

Association of Medical Illustrators | 07/2020 – Present

EVENT VOLUNTEER

Student Association of Medical Illustrators | 2018 – 2019
University of Illinois at Chicago

CAMPUS EVENTS VOLUNTEER

Commuter Student Association | 2015 – 2018
Dominican University

LETS TALK SCIENCE VOLUNTEER

Toronto, Canada | 2014 – 2015

RESEARCH PUBLICATIONS

Patel, U., Perez, L., Farrell, S., Steck, D., Jacob, A., Rosiles, T.,... Calin-Jageman IE. (2018). Transcriptional changes before and after forgetting of a long-term sensitization memory in *Aplysia californica*. *Neurobiology of Learning and Memory*, 155, 474–485

Perez, L., Patel, U., Rivota, M., Calin-Jageman IE., Calin-Jageman, RJ. (2018). Savings Memory is accompanied by transcriptional changes that persist beyond the decay of recall. *Learning and Memory*, 25(2), 45–48

Conte, C., Herdegen, S., Kamal, S., Patel, J., Patel, U., Perez, L.,...Calin-Jageman, IE. (2017). Transcriptional correlates of memory maintenance following long-term sensitization of *Aplysia californica*. *Learning and Memory*, 24(10), 502–515