

EDUCATION

- 2014 – 2019 **M.D.** Doctor of Medicine. Anticipated May 2019.
University of Illinois at Chicago College of Medicine, Chicago, IL
M.S. Master of Science in Clinical & Translational Science. Anticipated May 2019.
University of Illinois at Chicago School of Public Health, Chicago, IL
- 2010 – 2013 **M.S.** Master of Science in Biomedical Visualization
Concentrations: Clinical Anaplastology, Medical Illustration, Computer Visualization
University of Illinois at Chicago College of Applied Health Sciences, Chicago, IL
- 2004 – 2009 **B.A.** Bachelor of Arts in Studio Art with Magna Cum Laude
B.S. Bachelor of Science in Marine Biology with Honors
Minors: Art History & Chemistry
University of Alabama at Birmingham, Birmingham, AL

SOFTWARE & SKILLS

- New Media Materialise Mimics, 3-matic; 3dMDvultus; 3D Printing; Autodesk 3ds Max, Maya, Mudbox; Rhinoceros 3D; Unity 3D; Adobe Photoshop, Illustrator, InDesign, After Effects, Premiere Pro, Audition, Dreamweaver
- Languages Mandarin Chinese, Taiwanese, English

PROFESSIONAL EXPERIENCE

- 2017 – 2018 **M.D. M.S. Research Fellow**, Department of Radiology, UIC College of Medicine, Chicago, IL
Conducted research in radiological sciences under the guidance of R Peter Lokken, MD, MPH & Ron C Gaba, MD. Received the RSNA Research Medical Student Grant.
Project: Characterizing associations between T-cell populations and immune checkpoint molecules in hepatocellular carcinoma with clinicopathological features and outcomes
- 2015 – 2018 **James Scholar**, The Craniofacial Center, Department of Surgery, Division of Plastic & Reconstructive Surgery, UIC College of Medicine, Shriners Hospitals for Children, Northwestern University, Chicago, IL
Conducted research in bone regeneration under the guidance of Pravin K Patel, MD & Linping Zhao, PhD.
Project: 3D-printed "hyperelastic bone" scaffolds accelerate bone regeneration in bone defects
- 2011 – 2017 **Research Information Specialist for Creative Design and Course Development**, Department of Medical Education, UIC College of Medicine, Chicago, IL
Acted as creative director and instructional designer in developing curricula for healthcare education.
- 2015 **Craig Fellow**, Department of Ophthalmology and Visual Sciences, UIC College of Medicine, Chicago, IL
Conducted research projects in corneal neovascularization under the guidance of Jin-Hong Chang, PhD & Dimitri Azar, MD, MBA.
Project: *In vivo* imaging of injury-induced models of corneal hemangiogenesis and lymphangiogenesis
- 2015 **Surgery Exploration And Discovery Scholar**, Department of Surgery, UIC College of Medicine
Selected as one of the top 20 UIC medical students to participate in a two-week surgery program.
- 2011 & 2015 **Graduate Research Assistant**, Department of Anatomy & Cell Biology, UIC College of Medicine
Assisted with dissections, preservation and plastination of anatomical specimens.
- 2011 – 2014 **Clinical Anaplastology Intern & Research Assistant**, Maxillofacial Prosthetics Clinic, Craniofacial Center, University of Illinois Health, Chicago, IL
Assisted with facial prosthetic treatment, surgical planning, 3D imaging and 3D printing.
- 2012 – 2014 **Creative Director**, Medical Illustration Gallery, Sichuan, China
Collaborated with Jiaxin Li, MD from Huaxi Clinic Medical College, Sichuan University to create the first publication and online forum for medical illustration in Sichuan, China.
- 2011 **Graduate Teaching Assistant**, Department of Biological Sciences, UIC, Chicago, IL
Taught introductory biology discussions and laboratories.
- 2008 – 2010 **Medical Illustrator**, Department of Department of Biology & Orthopedics, UAB, Birmingham, AL
Illustrated for the Human Anatomy Lab Guide and The American Journal of Sports Medicine.
- 2007 – 2010 **Research Assistant**, Department of Biology, UAB, Birmingham, AL

Conducted research in marine biology conservation under the guidance of Thane Wibbels PhD.
Project: Conservation of Marine Turtles through Temperature-Dependent Sex Determination

- 2005 – 2010 **Lab Assistant**, Department of Biology, UAB, Birmingham, AL
Assisted with teaching & research laboratories, cultivated bacterial cultures, and cared for laboratory animals.
- 2004 – 2007 **Teaching Assistant**, Department of Foreign Languages, Department of Art & Art History, UAB
Taught and tutored Beginning & Intermediate Chinese and Beginning Photography.

EXTRACURRICULARS

- 2017 – 2018 **President**, Radiology Interest Group, UIC College of Medicine, Chicago, IL
Served as a resource for medical students with the mission to educate about the specialty of radiology and to actively support those who choose to pursue a career in radiology. Organized ultrasound workshops and assisted with the longitudinal radiology curriculum for undergraduate medical education.
- 2015 – 2018 **Mentor**, AMWA, SNMA, NLVS, AMSA Pre-Med Mentors Program, Big Sibs Little Sibs, UIC, Chicago, IL
Mentored undergraduate and medical students about MCAT/USMLE prep, research and clinical rotations.
- 2015 – 2016 **Medical Humanities Curricular Committee Representative**, UIC College of Medicine, Chicago, IL
Served as a student representative to reinvigorate and rebuild the medical humanities program.
- 2015 – 2016 **President**, College of Medicine Artists, UIC College of Medicine, Chicago, IL
Provided UIC College of Medicine students the opportunity to have a creative outlet, to share their art with peers, and to bring their art into the clinic for the benefit of patients.
- 2014 – 2018 **Student Curricular Board Member**, Chicago Medical Student Council, UIC College of Medicine
Provided feedback and evaluation on M1 Medical Anatomy and M2 General & Systemic Pathology. Served as a student representative for the evaluation and review of M1 and M2 curriculum.
- 2014 – 2016 **Board Member**, Latino Medical Student Association, UIC College of Medicine, Chicago, IL
Advocated for underrepresented medical students. Promoted education and volunteerism in Latino and underserved communities.
- 2014 – 2016 **Volunteer Medical Student**, New Life Volunteering Society Free Health Clinic, Chicago, IL
Provided medical care and health education to the uninsured and underserved.
- 2014 – 2015 **Health Fair Committee**, Asian Pacific American Medical Student Association, UIC College of Medicine
Organized health fairs and training workshops for volunteers. Determined screenings and services. Arranged for clinical staff, laboratory services, immunizations and equipment needs.
- 2013 – 2014 **Volunteer Child Life Specialist & Art Therapist**, Comer Children's Hospital, University of Chicago
Offered patients a safe and fun escape from illness through art and play with the goal to educate, support and enhance coping with illness while improving the psychosocial recovery of these children.
- 2012 – 2014 **Board Member**, Facial Prosthetics Initiatives Network, Chicago, IL
Supported research and outreach endeavors of facial prosthetic rehabilitation through education and program development with the mission to increase public awareness about services, treatment options, emerging research and opportunities for involvement in the field of Anaplastology.
- 2011 – 2014 **Volunteer**, Association of Medical Illustrators
Assisted with the Salons and workshops for the annual conferences.
- 2011 – 2013 **Service Committee Chair**, Graduate Student Council, UIC, Chicago, IL
Led committee through planning, implementing and evaluating community service projects.
- 2011 – 2013 **Class Representative**, Biomedical Visualization Program, Department of Biomedical and Health Information Sciences, College of Applied Health Sciences, UIC, Chicago, IL
Worked with faculty and student body to improve the learning experience and represented on their behalf at the Graduate Student Council meetings.
- 2011 – 2013 **Volunteer**, Maxillofacial Prosthetics Clinic, Craniofacial Center, University of Illinois Health, Chicago, IL
Maintained patient data, provided laboratory support, and coordinated patient education materials.

AWARDS & SCHOLARSHIPS

- 2018 **Gold Humanism Honor Society**, UIC College of Medicine
RSNA Research Medical Student Grant, Radiological Society of North America
SIR Medical Student Travel Scholarship, Society of Interventional Radiology
SIR Medical Student Research Online Program Certificate, Society of Interventional Radiology
UCSF Interventional Radiology Webinar Certificate, University of California, San Francisco
Travel Grant, UIC Health Professions Student Council

- Presenter Award**, UIC Graduate Student Council
Chancellor's Student Service Award, for exceptional service to the campus and community, UIC
Abbas Hyderi Leadership Award, for outstanding leadership and advocacy, UIC College of Medicine
Outstanding Student Feature, *The Medical Messenger*, UIC College of Medicine
2017 **Presentation Award**, Chicago Radiology Society Poster Session, Chicago, IL
Tom C. Reeves Memorial Award, for outstanding medical student recognized for qualities necessary for overcoming hardship, display of strength, leadership and volunteerism, UIC College of Medicine
Body Electric Award, awarded to the top 3 artworks in *Body Electric: UIC College of Medicine Literary Arts Journal*, UIC College of Medicine
Travel Award, UIC Graduate Student Council
M.D. M.S. Medical Student Research Fellowship, Department of Radiology, UIC College of Medicine
2016 **Travel Grant**, UIC Health Professions Student Council
Dr. Herman Adelman Scholarship, UIC College of Medicine
Arrie and Estelle Johnson Bamberger Scholarship, UIC College of Medicine
Chancellor's Student Service Award, for exceptional service to the campus and community, UIC
Abbas Hyderi Leadership Award, for outstanding leadership and advocacy, UIC College of Medicine
Chicago Medical Student Council Leadership Certification, for dedication to organizational leadership, UIC College of Medicine
Health Professions Student Council Project Grant, awarded to provide a forum for interdisciplinary discourse through the Collaborative Healthcare Series, UIC
Travel Grant, UIC Health Professions Student Council
2015 **Natalia J Janicki Scholarship**, UIC College of Medicine
Dr. C. M. Craig Fellowship, to top scored research projects, UIC College of Medicine
Travel Award, UIC Graduate Student Council
Abbas Hyderi Leadership Award, for outstanding leadership and advocacy, UIC College of Medicine
2014 **James Scholar Fellowship**, for outstanding medical student researchers, UIC College of Medicine
University of Illinois College of Medicine Scholarship, UIC College of Medicine
College of Medicine Institutional Scholarship Funds, UIC College of Medicine
2012 **Lillian B. Torrance Award**, for rehabilitative activities and studies, Biomedical Visualization, UIC
2011 **UIC Graduate College Service Project Grant**, Graduate Student Council, UIC

PUBLICATIONS

- Huang YH**, Park BV, Chen YF, Gaba RC, Guzman G, Lokken RP. (2018). Locoregional therapy of hepatocellular-cholangiocarcinoma versus hepatocellular carcinoma: A propensity score-matched study. *JVIR*. (Submitted).
- Park BV, Gaba RC, **Huang YH**, Chen YF, Guzman G, Lokken RP. (2018). Histology of hepatocellular carcinoma: Association with clinical features, radiological findings, and outcomes after locoregional therapy. *Radiology*. (Submitted).
- Huang YH**, Jakus AE, Jordan SW, Dumanian Z, Parker K, Zhao L, Patel PK, Shah RN. (2018). 3D-printed "hyperelastic bone" scaffolds accelerate bone regeneration in critical-sized bone defects. *Plast Reconstr Surg*. (Accepted).
- Khabbaz RC, **Huang YH**, Smith AA, Garcia K, Lokken RP, Gaba RC. (2018). Development and Angiographic Use of the Rabbit VX2 Model for Liver Cancer. *JoVE*. (Accepted).
- Huang YH**, Patel D, Wagner C, Goettl C. (2018). Cost effective 3D Printing of custom vascular models in vascular and interventional radiology. *J 3D Printing in Med*, 2(1), 7-14.
- Zhong W, Montana M, Santosa SM, Isjwara ID, **Huang YH**, Han KY, O'Neil C, Wang A, Cortina MS, de la Cruz J, Zhou Q, Rosenblatt M, Chang JH, Azar DT. (2018). Angiogenesis and lymphangiogenesis in corneal transplantation-A review. *Surv Ophthalmol*, 63(4), 453-479.
- Huang YH**, Seelaus R, Zhao L, Patel PK, Cohen M. (2017). Virtual surgical planning and 3D printing in prosthetic orbital reconstruction with percutaneous implants. *J Am Coll Surg*, 225(4), S168-S169.
- Patel D, **Huang YH**, Meyer J, Sepahdari A. (2017). Abdominal-Pelvic Scanning Parameters Revisited: A Case for Z-Axis Reduction in Patients With Clinical Suspicion for Acute Appendicitis. *Emerg Radiol*, 24(6), 661-666.
- Huang YH**, Viner M, Patel T, Sreedhar R. (2017). Hereditary Cardiac Amyloidosis: A Case Report. *Open J Clin Med Case Rep*, 3(3), 1-7.
- Pappo E, **Huang YH**, Aronson I. (2017). Rituximab treatment of pemphigus in women of childbearing age: Experience with two patients. *J Dermatolog Treat*, 28(8), 751-752.
- Huang YH**, Seelaus R, Zhao L, Patel PK, Cohen M. (2016). Virtual surgical planning and 3D printing in prosthetic orbital reconstruction with percutaneous implants: a technical case report. *Int Med Case Rep J*, 31(9), 341-345.
- Chang J, Putra I, **Huang YH**, Chang M, Han K, Zhong W, Gao X, Nguyen T, Hong Y, Azar, D. (2016). Limited versus total epithelial debridement ocular surface injury: Live fluorescence imaging of hemangiogenesis and lymphangiogenesis in Prox1-GFP/Flk1::Myr-mCherry mice. *Biochim Biophys Acta*, 1860(10), 2148-56.

Chang J, **Huang YH**, Cunningham C, Han K, Chang M, Seiki M, Zhou Z, Azar D. (2015). Matrix metalloproteinase 14 modulates signal transduction and angiogenesis. *Surv Ophthalmol*, 61(4), 478-97.

Yang J, Walia A, **Huang YH**, Han K, Rosenblatt M, Azar D, Chang J. (2015). Understanding Lymphangiogenesis in Knockout Models, the Cornea, and Ocular Diseases for the Development of Therapeutic Interventions. *Surv Ophthalmol*, 61(3), 272-96.

Walia A, Yang J, **Huang YH**, Rosenblatt M, Chang J, Azar D. (2015). Endostatin's Emerging Roles in Angiogenesis, Lymphangiogenesis, Disease, and Clinical Applications. *Biochim Biophys Acta*, 1850(12), 2422-2438.

Han K, Chang M, Ying H, Lee H, **Huang YH**, Chang J, Azar D. (2015). Selective Binding of Endostatin Peptide 4 to Recombinant VEGF Receptor 3 *In Vitro*. *Protein Pept Lett*, 22(11), 1025-30.

Salvatore S, Lupo S, Nebbioso M, **Huang YH**, Vingolo EM. (2011). New insight into visual function with aspherical intraocular lenses (IOLs): Tecnis ZCB00 and Acrysof SN60WF. *Int Ophthalmol*, 31(5), 417-9.

Vingolo EM, Esposito M, Librando A, **Huang YH**, Salvatore S. (2011). New retinal imaging for the visualization and analysis of vitreoretinal interface (VRI) by short-wavelength scanning laser ophthalmoscope (swSLO). *Clin Ophthalmol*, 2011(5), 1007-10.

Coleman A, Wibbels T, **Huang YH**, Marion K, Dindo J. (2010). Do larger females produce more fit hatchlings? Effect of female age and size on egg size and hatchling growth in the Mississippi diamondback terrapin, *Malaclemys terrapin pileata*. *Integr Comp Biol*, 50, E31.

PUBLISHED ARTWORK

Lee H, Lee S, Tsourdinis G, Yang A, Prabhu R. (2018). *Body Electric: UIC College of Medicine Literary Arts Journal*. Joomag. (4 illustrations).

Aleem A, Al-Khaled T, Cao C, Darwish D, Labaran L, Macrinici V. (2017). *Body Electric: UIC College of Medicine Literary Arts Journal*. Joomag. (9 illustrations).

Lee S. (2017). *The Red Shoes Review: UIC Literary and Arts Magazine*. (2 illustrations).

Huang YH, Lee E. (2016). *Body Electric: UIC College of Medicine Literary Arts Journal*. Joomag. (7 illustrations).

Li J, Huang YH. (2013). *Medical Illustration Gallery*, Volume 1. 3D Issue. (Featured artist).

Dobbins S. (2012). *Dead Things We Find*, Volume 1. Blurb Books. (1 photograph).

Ponce BA, Rosenzweig SD, Thompson KJ, Tokish J. (2011). Sequential Volume Reduction With Capsular Plications: Relationship Between Cumulative Size of Plications and Volumetric Reduction for Multidirectional Instability of the Shoulder. *Am J Sports Med*, 39(3), 526-531. (1 illustration).

Ponce BA, Hosemann CD, Raghava P, Tate JP, Eberhardt AW, Lafosse L. (2011). Biomechanical Evaluation of Three Arthroscopic Self-Cinching Stitches for Shoulder Arthroscopy: the Lasso-Loop, Lasso-Mattress, and Double-Cinching Stitches. *Am J Sports Med*, 39(1), 188-194. (7 illustrations).

Hendon L. (2009). *Complete Introductory Human Anatomy Lab Guide*, 6th Ed, New York, NY. Pearson Custom Publishing. (Cover design & 5 illustrations).

PRESENTATIONS

"Advance 3D Printed Molds for Facial Prostheses" American College of Surgeons Clinical Congress, Boston, MA, Oct 2018.

"Comparative outcomes of combined hepatocellular-cholangiocarcinoma and hepatocellular carcinoma after locoregional therapy: A propensity score analysis" World Conference on Interventional Oncology 2018, Boston, MA, Jun 2018.

"3D-printed "hyperelastic bone" scaffolds accelerate bone regeneration in critical-sized bone defects" RAPID + TCT, Fort Worth, TX, Apr 2018.

"3D printing from surgical guide and facial prosthetic treatment to bone regeneration" Collaborative 3D Printing in Medical Practice 2018, Scottsdale, AZ, Feb 2018.

"3D printing for surgical simulation and facial prosthetic treatment" International Meeting on Simulation in Healthcare, Los Angeles, CA, Jan 2018.

"Clinical presentation of submassive pulmonary embolism is associated with baseline pulmonary artery pressure and response to catheter directed thrombolysis" UIC College of Medicine Research Forum, Chicago, IL, Dec 2017.

"3D-Printed Hyperelastic Bioactive Bone Substitutes for Craniofacial Regeneration" International Society for Maxillofacial Rehabilitation Conference, San Francisco, CA, Oct 2017.

"Virtual Surgical Planning and 3-Dimensional Printing in Prosthetic Orbital Reconstruction with Percutaneous Implants" American College of Surgeons Scientific Forum, San Diego, CA, Dec 2017.

"Abdominal-Pelvic Scanning Parameters Revisited: A Case for Z-Axis Reduction in Patients With Clinical Suspicion for Acute Appendicitis" Chicago Radiology Society Meeting, Rush University Medical Center, Chicago, IL, Jan 2017.

"Pemphigus Vulgaris: A Case Report" Mentors Program Symposium, UIC College of Medicine, Chicago, IL, Mar 2016.

"Virtual Surgical Planning & 3D Printing in Prosthetic Orbital Reconstruction with Percutaneous Implants" Experimental Biology, Chicago, IL, Apr 2017.

"*In vivo* imaging of injury-induced models of corneal hemangiogenesis and lymphangiogenesis" Gordon Research Conference, Salve Regina University, Newport, RI, Aug 2015.

"Prolactinoma: A Case Report" Mentors Program Symposium, UIC College of Medicine, Chicago, IL, Apr 2015.

"Applying cognitive theories and principles to multimedia design for enhanced learning" TechTeach Conference, UIC, Chicago, IL, Oct 2013, Association of American Medical Colleges Conference, Philadelphia, PA, Nov 2013.

"Producing educational videos and a website to promote awareness and understanding of Retinitis Pigmentosa" UIC, Chicago, IL, Mar 2013.

EXHIBITIONS

- 2018 **Image of Research**, Finalist, Richard J Daley Library, Chicago, IL
American College of Physicians: Medicine & the Arts Humanizing Healthcare, UIC, Chicago, IL
Lighthouses on the Mag Mile: A Public Art Display Celebrating Access and Inclusion for People with Disabilities, Michigan Avenue, Chicago, IL
Health Humanities Exhibition, UIC College of Medicine Health Humanities Library, Chicago, IL
- 2017 **RSNA 2017 Image Contest**, 2nd Place Best Photo, Radiological Society of North America, Chicago, IL
Global Health in Pictures, Northwestern University, Chicago, IL
Illinois Board of Higher Education Exhibition, Illinois Board of Higher Education, Springfield, IL
- 2016 **College of Medicine Artists Exhibition**, UIC College of Medicine, Chicago, IL
Image of Research, Richard J Daley Library, Chicago, IL
- 2015 **College of Medicine Artists Exhibition**, UIC College of Medicine, Chicago, IL
- 2013 **Image of Research**, Richard J Daley Library, Chicago, IL
FACE OFF: Street Anatomy Gallery Show, International Museum of Surgical Science, Chicago, IL
- 2012 **The Frank Armitage Lecture**, National Museum of Health + Medicine, Chicago, IL
- 2008 **The 33rd Annual Juried Student Exhibition**, UAB Visual Arts Gallery, Birmingham, AL
Curiosità & Creative Imagination: Young Leonardo's at Work Today, Birmingham Museum of Art
Local Artists Gallery Show, Birmingham, AL
Art Guild Exhibition, UAB Visual Arts Gallery, Birmingham, AL
- 2007 **The 32nd Annual Juried Student Exhibition**, UAB Visual Arts Gallery, Birmingham, AL
Isms: the beART Collective's First Show, Birmingham, AL
The Art of Can, Red Bull Juried Exhibition, UAB Visual Arts Gallery, Birmingham, AL
- 2006 **Tromp L'Oeil: The Art of Illusion**, Montgomery Museum of Fine Arts, Montgomery, AL

PROFESSIONAL MEMBERSHIPS

- 2018 – 2019 Gold Humanism Honor Society
2018 – 2019 Association of University Radiologists
2018 – 2019 American Association for Women Radiologists
2018 – 2019 Society for Simulation in Healthcare
2018 – 2019 Society of Interventional Oncology
2018 – 2019 Society of Breast Imaging
2017 – 2019 Society of Manufacturing Engineers Medical Additive Manufacturing/3D Printing Workgroup
2016 – 2019 Society of Interventional Radiology
2016 – 2019 RSNA 3D Printing Special Interest Group
2014 – 2019 Radiological Society of North America
2014 – 2019 American College of Radiology
2014 – 2019 American College of Surgeons
2014 – 2019 American College of Physicians
2014 – 2019 Illinois Academy of Family Physicians
2014 – 2019 American Academy of Family Physicians
2014 – 2019 American Medical Association
2014 – 2019 American Medical Student Association
2014 – 2019 Illinois State Medical Society
2014 – 2018 Chicago Council on Science and Technology
2011 – 2018 International Anaplastology Association
2011 – 2014 American Society of Ocularist
2011 – 2014 Association of Medical Illustrators