

# YU-HUI HUANG, MD, MS, MS

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## EDUCATION

- 2020 – 2024 **Residency**, Diagnostic Radiology / Nuclear Medicine Subspecialty Certification  
University of Minnesota, Minneapolis, MN
- 2019 – 2020 **Internship**, Transitional Year  
Hennepin County Medical Center, Minneapolis, MN
- 2014 – 2019 **M.D.** Doctor of Medicine  
University of Illinois at Chicago College of Medicine, Chicago, IL
- 2017 – 2019 **M.S.** Master of Science in Clinical & Translational Science  
University of Illinois at Chicago School of Public Health, Chicago, IL
- 2010 – 2013 **M.S.** Master of Science in Biomedical Visualization  
University of Illinois at Chicago College of Applied Health Sciences, Chicago, IL
- 2004 – 2009 **B.A.** Bachelor of Arts in Art with Magna Cum Laude  
**B.S.** Bachelor of Science in Biology with Honors  
Minors: Art History & Chemistry  
University of Alabama at Birmingham, Birmingham, AL

## PROFESSIONAL EXPERIENCE

- 2024 **Fellow**, Radiology Champion 3D Printing, VHA Office of Advanced Manufacturing, Seattle, Washington
- 2023 – 2024 **Chief Resident**, Diagnostic Radiology, University of Minnesota
- 2022 – 2024 **Adjunct Faculty**, Biomedical Visualization Graduate Program, Department of Biomedical and Health Information Sciences, College of Applied Health Sciences, University of Illinois at Chicago  
Taught Medical 3D Printing with Data Segmentation and Pathophysiology for Biomedical Visualization
- 2023 – 2024 **Clerkship Co-Director**, Medical School, University of Minnesota  
Co-instructed the Medical Imaging to 3D Printing & Virtual Reality rotation for medical students.
- 2023 **Guest Lecturer**, Institute for Engineering in Medicine, University of Minnesota  
Invited to present on medical imaging and data segmentation for 3D printing in medicine.
- 2019 – 2020 **Resident/Fellow Leadership Team Representative**, Transitional Year Residency Program,  
Hennepin County Medical Center, Minneapolis, MN
- 2017 – 2019 **M.D. M.S. Research Fellow**, Department of Radiology, UIC College of Medicine, Chicago, IL  
Project: Characterization of tumor-infiltrating lymphocytes in hepatocellular carcinoma
- 2017 – 2018 **President**, Radiology Interest Group, UIC College of Medicine, Chicago, IL  
Assisted in the development of longitudinal radiology curriculum for undergraduate medical education.
- 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  
Project: 3D-printed "hyperelastic bone" scaffolds accelerate bone regeneration in bone defects
- 2014 – 2018 **Curricular Board Member**, Chicago Medical Student Council, UIC College of Medicine  
Served as a student representative for the evaluation and review of the M1 and M2 curriculum.
- 2015 – 2016 **Medical Humanities Curricular Representative**, UIC College of Medicine, Chicago, IL  
Served as a student representative to reinvigorate and rebuild the medical humanities program.
- 2011 – 2017 **Research Information Specialist for Creative Design and Course Development**, Department of Medical Education, UIC College of Medicine, Chicago, IL  
Served 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  
Project: *In vivo* imaging of injury-induced models of corneal hemangiogenesis and lymphangiogenesis
- 2011 & 2015 **Graduate Research Assistant**, Department of Anatomy & Cell Biology, UIC College of Medicine  
Assisted with dissections, preservation and plastination of anatomical specimens.
- 2012 – 2014 **Board Member**, Facial Prosthetics Initiatives Network, Chicago, IL  
Supported research and outreach endeavors of facial prosthetic rehabilitation through education and program development.

- 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 – 2014 **Clinical Anaplastology 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.
- 2011 – 2013 **Graduate Program Representative**, Biomedical Visualization Graduate 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.
- 2011 **Graduate Teaching Assistant**, Department of Biological Sciences, UIC, Chicago, IL  
Taught and tutored students in Biology courses and laboratories.
- 2008 – 2010 **Medical Illustrator**, Department of Biology & Orthopedics, UAB, Birmingham, AL  
Illustrated for the Human Anatomy Lab Guide and The American Journal of Sports Medicine.
- 2005 – 2010 **Research Assistant**, Department of Biology, UAB, Birmingham, AL  
Assisted with teaching laboratories, cultivated bacterial cultures, and cared for laboratory animals.

## PROFESSIONAL SERVICE

- 2023 – 2024 **Content Reviewer**, Radiological Society of North America 3D SIG  
Reviewed abstracts for the RSNA Medical 3D Printing in Practice conference.
- 2023 – 2024 **Admissions Interviewer**, Medical School, University of Minnesota  
Volunteer interviewer for the University of Minnesota Medical School's admissions committee.
- 2022 – 2024 **Research Committee Member**, Biomedical Visualization Graduate Program, Department of Biomedical and Health Information Sciences, College of Applied Health Sciences, University of Illinois at Chicago  
Advised Biomedical Visualization graduate students in their master's research projects.
- 2022 – 2024 **Medical 3D Printing Advisor**, Clinical Simulation, HealthPartners  
Invited to assist in the establishment of medical 3D printing and visualization service for medical education, patient education, and patient care.
- 2021 – 2024 **3D Anatomical Modeling Workgroup**, Department of Radiology, University of Minnesota  
Fostered a collaboration between the Department of Radiology and Earl Bakken Medical Devices Center to help establish and provide medical 3D printing/VR/AR services for referring providers for patient care.
- 2022 – 2024 **Facilitator & Context Speaker**, Resident Leadership Academy, University of Minnesota  
Facilitated leadership development discussions among selected residents across disciplines.
- 2020 – 2024 **Mentor**, Minnesota Medical Association Mentorship Program  
Mentored pre-medical/medical students and provided insight on the specialty of radiology.
- 2019 – 2023 **Medical Advisor**, American Society of Mechanical Engineers Medical Additive Manufacturing/3D Printing  
Provided ideas and feedback for events and speakers and reviewed abstracts for AM Medical Summits.
- 2021 – 2023 **Content Reviewer**, Society for Simulation in Healthcare  
Reviewed research abstracts for the International Meeting on Simulation in Healthcare.
- 2023 – 2024 **Reviewer**, *Journal of Biocommunication*
- 2020 – 2024 **Reviewer**, *Journal of Adolescent Health: Intersection*
- 2020 – 2023 **Reviewer**, *AMA Journal of Ethics: Illuminating the Art of Medicine*
- 2021 – 2022 **Reviewer**, *Consultant 360*
- 2011 – 2013 **Service Committee Chair**, Graduate Student Council, UIC, Chicago, IL  
Led committee through planning, implementing, and evaluating community service projects.

## EXTRACURRICULARS

- 2023 **Webmaster**, Minnesota Radiological Society  
Redesigned and updated the Minnesota Radiological Society website.
- 2021 – 2023 **Mentor House Program**, Department of Radiology, University of Minnesota  
Fostered a collegial environment for faculty and residents of all training levels to connect and build professional relationships, enhance learning opportunities, and create a sense of community.
- 2021 – 2023 **Wellness Committee**, Department of Radiology, University of Minnesota

Promoted resident health and well-being through the tenets of community, volunteerism, physical and mental health. Co-hosted friendly contests with Mayo Clinic Radiology Wellness Committee.

- 2020 – 2023 **Webmaster**, Department of Radiology, University of Minnesota  
Maintained the residency website to keep the residents informed regarding their rotations, call duties, didactic, ACGME requirements, and more.
- 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 and to bring their art into the clinic for the benefit of patients.
- 2014 – 2016 **Volunteer**, New Life Volunteering Society Free Health Clinic, Chicago, IL  
Provided medical care and health education to the uninsured and underserved population.
- 2014 – 2016 **Health Fair Committee**, Asian Pacific American Medical Student Association, UIC College of Medicine  
Organized health fairs and training workshops for volunteers. Assisted in Mandarin interpretation.
- 2013 – 2014 **Art Therapy Volunteer**, Comer Children's Hospital, University of Chicago, Chicago, IL  
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.
- 2011 – 2014 **Volunteer**, Association of Medical Illustrators  
Assisted with the Salons and workshops for the annual Association of Medical Illustrators conferences.
- 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.

## GRANTS

- 2023 – 2024 **RSNA 3D Printing Special Interest Group Grant**, Department of Radiology, University of Minnesota  
Faculty Mentor: David Nascene, MD  
Project Title: Clinical and economic benefits of 3D printed anatomical models and surgical guides in pediatric neurosurgery and otolaryngology
- 2022 – 2023 **Pediatric Resource Grant**, Department of Pediatrics, University of Minnesota  
Faculty Mentors: Gwentyth Fischer, MD; Robert Acton, MD; David Nascene, MD  
Project Title: Use of Bakken Medical Devices Center 3D Printing Lab to Evaluate the Effectiveness of Anatomic Modeling for Complex Pediatric Surgical Cases
- 2018 – 2019 **RSNA Research Medical Student Grant**, Radiological Society of North America  
Faculty Mentors: Peter Lokken, MD, MPH; Ron Gaba, MD, MS  
Project Title: Characterizing Associations Between T-cell Populations in Hepatocellular Carcinoma and Clinicopathological Features and Outcomes
- 2016 **Shriners Hospital for Children Basic Research Grant**  
Faculty Mentor: Pravin Patel, MD  
Project Title: Bone Generation with 3D Printed HB-Stem Cell Construct in Critical Size Defect Rat
- 2015 **Health Professions Student Council Project Grant**, awarded to provide a forum for interdisciplinary discourse through the Collaborative Healthcare Series, UIC
- 2011 **UIC Graduate College Service Project Grant**, Graduate Student Council, UIC

## HONORS & AWARDS

- 2024 **ACR Radiology Leadership Institute Emerging Leader Scholarship** in recognition of exceptional leadership potential to become leaders in the field and contribute to the future of radiology
- 2023 **Lucy Frank Squire Distinguished Resident in Diagnostic Radiology Award** in recognition of outstanding contributions to clinical care and scholarship, American Association for Women in Radiology  
**Award of Merit**, Association of Medical Illustrators Illuminating the Science of Life Salon  
**3DHeals AI 3D Printing Art Contest Winner**
- 2022 **National Imaging Informatics Course-Radiology Scholarship**, selected by SIIM & RSNA
- 2021 **Introduction to Academic Radiology Program**, selected by RSNA/AUR/ARRS  
**American Roentgen Ray Society Resident in Radiology Award**, for competence and promise in radiology research, education, and the scientific merit and potential impact of the candidate's research  
**University of Minnesota Resident Leadership Academy**, selected by the department for leadership skills and potential to transform healthcare  
**Metro Minnesota Council on Graduate Medical Education Quality Forum Poster Winner**
- 2020 **Evonik Health Care RESOMER® Award**, for best publication using RESOMER® bioresorbable polymers for tissue engineering in North America
- 2019 **Impact Scholar**, for high-impact engagement of research, student organization leadership, service projects and student employment, UIC  
**Granville Bennett Award**, for contribution to medical education, UIC College of Medicine  
**Chancellor's Student Service Award**, for exceptional service to the campus and community, UIC

	<b>Presenter Award</b> , UIC Graduate Student Council
	<b>Body Electric Award</b> , awarded to the top 3 artworks in <i>Body Electric: UIC College of Medicine Literary Arts Journal</i> , UIC College of Medicine
2018	<b>Society of Interventional Radiology Medical Student Travel Scholarship</b> , selected as a scholar to receive a travel stipend to attend the Society of Interventional Radiology Annual Scientific Meeting
	<b>Gold Humanism Honor Society</b> , UIC College of Medicine
	<b>Presenter Award</b> , UIC Graduate Student Council
	<b>Chancellor's Student Service Award</b> , for exceptional service to the campus and community, UIC
	<b>Abbas Hyderi Leadership Award</b> , for outstanding leadership and advocacy, UIC College of Medicine
2017	<b>Outstanding Student Feature</b> , <i>The Medical Messenger</i> , UIC College of Medicine
	<b>Presentation Award</b> , Chicago Radiology Society, Chicago, IL
	<b>Tom C. Reeves Memorial Award</b> , for outstanding medical student recognized for qualities necessary for overcoming hardship, display of strength, leadership, and volunteerism, UIC College of Medicine
	<b>Body Electric Award</b> , awarded to the top 3 artworks in <i>Body Electric: UIC College of Medicine Literary Arts Journal</i> , UIC College of Medicine
2016	<b>M.D. M.S. Medical Student Research Fellowship</b> , Department of Radiology, UIC College of Medicine
	<b>Chancellor's Student Service Award</b> , for exceptional service to the campus and community, UIC
	<b>Abbas Hyderi Leadership Award</b> , for outstanding leadership and advocacy, UIC College of Medicine
	<b>Chicago Medical Student Council Leadership Certification</b> , for dedication to organizational leadership, UIC College of Medicine
	<b>Dr. Herman Adelman Scholarship</b> , UIC College of Medicine
	<b>Arrie and Estelle Johnson Bamberger Scholarship</b> , UIC College of Medicine
2015	<b>Dr. C. M. Craig Fellowship</b> , to top scored research projects, UIC College of Medicine
	<b>Abbas Hyderi Leadership Award</b> , for outstanding leadership and advocacy, UIC College of Medicine
	<b>James Scholar Fellowship</b> , for outstanding medical student researchers, UIC College of Medicine
	<b>Natalia J Janicki Scholarship</b> , UIC College of Medicine
2014	<b>University of Illinois College of Medicine Scholarship</b> , UIC College of Medicine
	<b>College of Medicine Institutional Scholarship</b> , UIC College of Medicine
2012	<b>Lillian B. Torrance Award</b> , for rehabilitative activities and studies, Biomedical Visualization, UIC
2009	<b>Dean's Leadership Scholarship</b> , School of Natural Sciences and Mathematics, University of Alabama at Birmingham
	<b>Anne M. Cusic Scholarship</b> , Department of Biology, University of Alabama at Birmingham
2008	<b>Presentation Award</b> , Exposition of undergraduate Scholarship, University of Alabama at Birmingham
2004	<b>University Scholars Award</b> , Full Scholarship, University of Alabama at Birmingham
	<b>Outstanding General Chemistry Award</b> , Department of Chemistry, University of Alabama at Birmingham

## PUBLICATIONS

1. Wang K, Ryan J, Leonid C, Wake N, Quigley E, Santiago L, Wentworth A, Alexander A, Morris J, Fleischmann D, Ballard D, Ravi P, Hirsch J, Sturgeon G, **Huang YH**, Decker S, von Windheim N, Pugliese R, Hidalgo R, Patel P, Colon J, Thieringer F, Rybicki F. (2024). Demographics, utilization, workflow and outcomes based on observational data from the RSNA-ACR 3D Printing Registry. *AJR* (Under Review).
2. Mulford K, Moen S, **Huang YH**, Masood K, Nodoro S, Darrow DP, Grande AW, Jagadeesan B, Van de Moortele PF, Nixdorf DR, Ozutemiz C. (2024). Factors Impacting Variability in the MRI Based Assessment of Neurovascular Compression of the Trigeminal Nerve. *Neuroradiology* (Under review).
3. Vijayakumar V, Gaba R, **Huang YH**, Davis I, Roman R, Guzman G, Lokken P, Schachtschneider K. (2024). Hepatocellular carcinoma epigenetic patterns correspond to differences in ethnoracial status and treatment response. *JVIR* (In Press).
4. Ryan J, Ghosh R, Sturgeon G, Ali A, Arribas E, Braden E, Chadalavada S, Leonid C, Decker S, **Huang Y**, Ionita C, Lee J, Liacouras P, Parthasarathy J, Ravi P, Sandelier M, Sommer K, Wake N, Rybicki F, Ballard D. (2024). Clinical Situations for which 3D Printing is Considered an Appropriate Representation or Extension of Data Contained in a Medical Imaging Examination: Pediatric Congenital Heart Disease Conditions. *3D Print Med* (In Press).
5. **Huang YH**, Knoll B. (2024). Cervical myelopathy secondary to high voltage electrocution. American College of Radiology Case in Point, January 25, 2024.
6. Ali A, Morris J, Decker S, **Huang YH**, Wake N, Rybicki F, Ballard D. (2023). Clinical Situations for which 3D Printing is Considered an Appropriate Representation or Extension of Data Contained in a Medical Imaging Examination: Neurosurgical and Otolaryngologic Conditions. *3D Print Med*, 9, 33.
7. **Huang YH**, Nascene D, Spilseth B, Chuy JA. (2023). High-Fidelity Simulation Training for Nasal Bridle Placement with a 3D Printed Model. *Annals of 3D Print Med*, 10(100108).
8. **Huang YH**, Tuttle T, Hoven N. (2022). 3D printed model for triple negative inflammatory breast cancer. *3D Print Med*, 8, 32.

9. **Huang YH**, Lee B, Chuy JA, Goldschmidt SL. (2022). 3D printing for surgical planning of canine oral and maxillofacial surgeries. *3D Print Med*, 8, 17.
10. Rosenberg J, Jarosek S, Spilseth B, **Huang YH**, Blake P, Baron T, Watarai B, Derweesh I, Regmi S, Konety B. (2022). Diagnosing Prostate Cancer: The role of intravesicular prostatic gland protrusion on accuracy of prostate biopsies. *Journal of Urology*, 207(6), 1207-1213.
11. **Huang YH**, Ozutemiz C, Rubin N, Schat R, Metzger G, Spilseth B. (2021). Impact of 18 French Rectal Tube Placement on Image Quality of Multiparametric Prostate MRI. *AJR*, 216, 1-2.
12. Jakus A, **Huang YH**, Wake N. (2021). Chapter 16: The Future of Medical 3D Printing in Radiology: *3D Printing for the Radiologist*. Elsevier, 201-214.
13. Zhao L, **Huang YH**. (2021). Chapter 8: Photography Advances in Facial Imaging. *Aesthetic Surgery of the Facial Skeleton*. Elsevier, 59-70.
14. **Huang YH**. (2020). The Distance Between. *Minnesota Medicine: The Journal of the Minnesota Medical Association*, 103(4), 26.
15. **Huang YH**. (2020). We are always wondering if we've done enough. *Minnesota Medicine: The Journal of the Minnesota Medical Association*, 103(3), 25.
16. Wang Y, Schachtschneider KM, **Huang YH**, Gaba R, Nguyen P, Yen P, Sverdllov M, Guzman G, Lokken R. (2020). Infiltration of T-cell subpopulations in hepatocellular carcinoma is associated with tumor size, Barcelona Clinic Liver Cancer stage, and transplant-free survival. *JVIR*, 31(3), S305.
17. Park BV, Gaba RC, **Huang YH**, Chen YF, Guzman G, Lokken RP. (2019). Histology of Hepatocellular Carcinoma: Association with Clinical Features, Radiological Findings, and Locoregional Therapy Outcomes. *JCIS*, 9, 52.
18. **Huang YH**. (2019). Characterization of Tumor-Infiltrating Lymphocytes in Hepatocellular Carcinoma (Master's thesis). University of Illinois at Chicago, Chicago, IL.
19. **Huang YH**, Park BV, Chen YF, Gaba RC, Guzman G, Lokken RP. (2019). Locoregional therapy of hepatocellular-cholangiocarcinoma versus hepatocellular carcinoma: A propensity score-matched study. *JVIR*, 30, 1317-1324.
20. **Huang YH**, Jakus AE, Jordan SW, Dumanian Z, Parker K, Zhao L, Patel PK, Shah RN. (2019). Three-Dimensionally Printed Hyperelastic Bone Scaffolds Accelerate Bone Regeneration in Critical-Size Calvarial Bone Defects. *Plast Reconstr Surg*, 143(5), 1397-1407.
21. Arias E, **Huang YH**, Zhao L, Seelaus R, Patel PK, Cohen M. (2019). Virtual Surgical Planning and Three-Dimensional Printed Guide for Soft Tissue Correction in Facial Asymmetry. *J Craniofac Surg*, 30(3), 846-850.
22. **Huang YH**, Arias E. (2018). Advanced 3-Dimensional Printed Molds for Facial Prostheses. *J Am Coll Surg*, 227(4):S204.
23. Khabbaz RC, **Huang YH**, Smith AA, Garcia K, Lokken RP, Gaba RC. (2019). Development and Angiographic Use of the Rabbit VX2 Model for Liver Cancer. *J Vis Exp*, (143), e58600.
24. **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.
25. 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.
26. **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.
27. 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.
28. **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.
29. 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.
30. **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.
31. 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.

32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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**

- Whitehurst A. (2022). #RadArt. *MRI Online*.
- Hendon L. (2022). *Complete Introductory Human Anatomy Lab Guide*. Great River Learning. Cover art.
- Benson M. (2021). MRS Member Arts. *Minnesota Radiological Society Newsletter*.
- Huang Y. (2020). "A Visual Translator." *Doctors Who Create*.
- Lim D, Sheena M. (2019). *UI Health HuMed Calendar*.
- Lee H, Lee S, Tsourdinis G, Yang A. (2018). *Body Electric: UIC College of Medicine Literary Arts Journal*. Joomag.
- Cotterell, Yvonne. (2019). "Art in Medicine." *The New Physician: American Medical Student Association*.
- Lee H, Lee S, Tsourdinis G, Yang A. (2018). *Body Electric: UIC College of Medicine Literary Arts Journal*. Joomag.
- Aleem A, Al-Khaled T, Cao C, Darwish D, Labaran L, Macrinici V. (2017). *Body Electric: UIC College of Medicine Literary Arts Journal*. Joomag.
- Lee S. (2017). *The Red Shoes Review: UIC Literary and Arts Magazine*.
- Huang YH, Lee E. (2016). *Body Electric: UIC College of Medicine Literary Arts Journal*. Joomag.
- Li J, Huang YH. (2013). *Medical Illustration Gallery, Volume 1. 3D Issue*.
- Dobbins S. (2012). *Dead Things We Find, Volume 1*. Blurb Books.
- 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.
- 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-Cinch Stitches. *Am J Sports Med*, 39(1), 188-194.
- Gribben V. (2010). *The Fairytale Trilogy: Fairytale, The Emperor's Realm, and The Three Crowns*, Montgomery, AL. NewSouth Books.
- Hendon L. (2009). *Complete Introductory Human Anatomy Lab Guide, 6<sup>th</sup> Ed*, New York, NY. Pearson Custom Publishing.

## **PRESENTATIONS**

- "Medical and Veterinary 3D Printing" Design of Medical Devices Conference, Minneapolis, MN, Apr 2024.
- "Presentation Skills" AUR Radiology Research Alliance Research Boot Camp, Boston, MA, Apr 2024.
- "Radiology Enhances Personalized Medicine for Humans and Animals through Clinical 3D Printing" ESR, Vienna, Austria, Feb 2024; AOCR, Taipei, Taiwan, Mar 2024.
- "Revolutionizing Animal Care: Explore 3D Printing" 3D Heals, Zoom, Feb 2024.

"Clinical benefits of medical 3D printing in pediatric neurosurgery & otolaryngology" RSNA 3DSIG, Chicago, IL, Nov 2023.

"Brain Death: Review of Neuroimaging Criteria, Techniques, and Pitfalls" RSNA, Chicago, IL, Nov 2023.

"Role of Radiology in Medical and Veterinary 3D Printing" 2023 Minnesota Radiological Society, St. Paul, MN, Nov 2023.

"Bakken Medical Device Center Seminar Series: 3D Printing in Healthcare" University of Minnesota, Minneapolis, MN, Nov 2023.

"3D Printing for Veterinary Medicine" Advanced Manufacturing Minneapolis, Minneapolis, MN, Oct 2023.

"From Biomedical Visualization to Medical 3D Printing for Veterinarian and Clinical Patient Care" 2023 Association of Medical Illustrators Annual Conference, Henderson, NV, Jul 2023.

"Teaching Complex Skull Deformities with 3D-Printed Models" ASNR, Chicago, IL, Apr 2023.

"Presentation Skills for Researchers" AUR Research Boot Camp, Austin, TX, Apr 2023.

"3D Printing for Veterinarian and Clinical Applications" Design of Medical Devices Conference, Minneapolis, MN, Apr 2023.

"Optimization of Complex Case Discussions Through Augmented Reality" Chest Wall Injury Summit, Park City, UT, Apr 2023.

"Improving Radiologist Agreement in Assessing Neurovascular Compression of the Trigeminal Nerve" ARRS, Honolulu, HI, Apr 2023.

"3D Printing for Veterinarian and Clinical Care" TIPE 3D Printing | 2023 Conference, Jan 2023.

"Fundamentals of Imaging Data for Medical 3D Printing" International Anaplastology Association Access Anaplastology Web Series, Dec 2022.

"Initial report of case characteristics from the RSNA-ACR 3D Printing Registry" RSNA, Chicago, IL, Dec 2022.

"Gene expression and DNA methylation patterns highlight disparities in ethno-racial status and treatment response in hepatocellular carcinoma patients" RSNA, Chicago, IL, Dec 2022.

"3D Printing for Veterinary and Clinical Care" Invited Presentation, Formlabs Medical Summit, Oct 2022.

"3D Printing for Surgical Planning of Canine Oral and Maxillofacial Surgeries" RAPID + TCT 2022 Conference, Detroit, MI, May 2022.

"3D printed anatomic models for radiology resident training" RSNA Medical 3D Printing in Practice Meeting, Chicago, IL, Apr 2022.

"3D-Printed Breast Model: Triple Negative Inflammatory Breast Cancer" RSNA Medical 3D Printing in Practice Meeting, Chicago, IL, Apr 2022.

"3D Printed Models for Education and Simulation" Invited Presentation, HealthPartners, Minneapolis, MN, Fed 2022.

"3D printed models facilitate teaching, understanding, confidence and competence for fluoroscopy procedure and image interpretation" International Meeting on Simulation in Healthcare, Los Angeles, CA, Jan 2022.

"Feasibility of a 3D Printed Nasopharyngeal Model for Nasal Bridle Simulation Training" AMA, Oct 2021; MMCGME Quality Forum, May 2022.

"Rectal Tube Placement in Multiparametric MRI of the Prostate: Multi-Reader Evaluation of Image Quality Improvement" The American Roentgen Ray Society, Apr 2021; MMCGME Quality Forum, May 2021.

"Infiltration of T-cell subpopulations in hepatocellular carcinoma is associated with tumor size, BCLC stage, and transplant-free survival" Society of Interventional Radiology, Mar 2020.

"Demystifying Diffusion-Weighted MR Imaging: From Biophysical Basis to Evolving Imaging Biomarker" RSNA, Chicago, IL, Dec 2019.

"3D-printed hyperelastic bone scaffolds accelerate bone regeneration in critical-sized calvarial bone defects" Society For Biomaterials, Seattle, WA, Apr 2019.

"Integrating longitudinal learning of radiology into the preclinical medical education curriculum" Association of University Radiologists, Baltimore, MD, Apr 2019.

"Transforming the Smartphone into a Portable Attendance Tracking and Immediate Feedback Tool During Residency and Medical Student Training" Association of University Radiologists, Baltimore, MD, Apr 2019.

"Epigenetic Regulation of Combined Hepatocellular-Cholangiocarcinoma Subtypes" American Association for Cancer Research, Atlanta, GA, Mar 2019.

"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" 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" 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.

## EXHIBITS

2024 **Gold Humanism Summit: The Person in Front of You**, Atlanta, GA  
**Community Arts @ Health Sciences Gallery**, University of Minnesota, Minneapolis, MN

2023 **Association of Medical Illustrators Salon**, Award of Merit, Henderson, NV  
**American College of Radiology's Patient and Family Centered Care Art Exhibit**, Washington, DC  
**Community Arts @ Health Sciences Gallery**, University of Minnesota, Minneapolis, MN  
**Office of Diversity, Equity & Inclusion Display**, University of Minnesota, Minneapolis, MN  
**RSNA 3D Printing Showcase**, Chicago, IL

2022 **Gold Virtual Humanism Conference: Healing the Heart of Healthcare**  
**American College of Radiology Virtual Art Gallery**  
**RSNA 3D Printing Showcase**, Chicago, IL  
**Society of Artful Radiologists**, Society of Abdominal Radiology Gallery

2021 **Gold Humanism Honor Society Virtual Art Gallery**  
**RSNA 3D Printing Showcase**, Chicago, IL  
**Society of Artful Radiologists**, Society of Abdominal Radiology Gallery

2020 **Heart of Hennepin**, Hennepin County Medical Center, Minneapolis, MN  
**Crop Art**, Hennepin County Medical Center, Minneapolis, MN  
**HuMed's Art Exhibit 2020: Art from Inside**, UIC College of Medicine, Chicago, IL

2019 **Heart of Hennepin**, 3<sup>rd</sup> Place, Hennepin County Medical Center, Minneapolis, MN  
**Arts Quarter Festival**, University of Minnesota, Minneapolis, MN  
**HuMed Art Exhibit**, University of Illinois College of Medicine, Chicago, IL  
**Northwestern University Prosthetics-Orthotics Center Gallery**, Chicago, IL

2018 **Image of Research**, Finalist, Richard J Daley Library, Chicago, IL  
**American College of Physicians: Humanities in Medicine**, UIC, Chicago, IL  
**RSNA 3D Printing Showcase**, 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**, 2<sup>nd</sup> 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 33<sup>rd</sup> 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 32<sup>nd</sup> 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

- 2022 – 2024 American Society of Neuroradiology  
2022 – 2024 American Society of Functional Neuroradiology  
2022 – 2024 Society of Nuclear Medicine and Molecular Imaging  
2019 – 2024 Society for Imaging Informatics in Medicine  
2019 – 2024 American Roentgen Ray Society  
2019 – 2024 European Society of Radiology  
2019 – 2024 Minnesota Radiological Society  
2018 – 2024 Association of University Radiologists  
2018 – 2024 American Association for Women Radiologists  
2018 – 2024 Society for Simulation in Healthcare  
2018 – 2024 Gold Humanism Honor Society  
2016 – 2024 RSNA 3D Printing Special Interest Group  
2014 – 2024 Radiological Society of North America  
2014 – 2024 American College of Radiology  
2014 – 2024 American Medical Association  
2011 – 2024 Association of Medical Illustrators  
2018 – 2021 Society of Interventional Oncology  
2016 – 2021 Society of Interventional Radiology  
2014 – 2019 American Medical Student Association  
2014 – 2018 Chicago Council on Science and Technology  
2011 – 2018 International Anaplastology Association  
2011 – 2014 American Society of Ocularist