

Educational History:

M.A.	2018	Medical and Biological Illustration	Johns Hopkins School of Medicine
		Mentors: Lydia Gregg, MA, CMI, FAMI	
		Warren Grayson, PhD, Director	
B.A.	2015	Biological/Pre-Medical Illustration	Iowa State University

Other Professional Experience:

Medical Illustrator, 2019, SIGVARIS
 Biomedical Illustrator, 2019 Grayson Lab for Craniofacial and Orthopaedic Tissue Engineering
 Molecular Animation Storyboarder, 2018, XVIVO
 Patient Education Animator, 2018, Rendia Inc.
 Infographic Designer, 2018, Cathy Lehman, Damn Mad About Breast Cancer
 Entomological Illustrator, 2016, Queulat National Park, Center of Ecosystem Investigation of Patagonia
 Entomological Illustrator, 2015, *Diptera* lab of Greg Courtney, Iowa State University
 Junior Museum Curator and Illustrator, 2015-2016, *Diptera* lab of Greg Courtney, Iowa State University
 Biomedical Undergraduate Research Assistant, 2014-2015, Lab of Weidong Xu, Iowa State University
 Biological Illustrator, 2014, Lab of Anne Bronikowski, Iowa State University

Scholarships, Fellowships, Funding:

Vesalius Trust Research Grant, 2018, \$475, research support
 W.B. Saunders Company Fellowship, 2016-2017, \$2000, stipend support
 William P. Didusch Scholarship, 2016-2018, \$14000, stipend support
 Undergraduate Research Assistant Grant, 2015-2016, \$4,000, work study support
 Undergraduate Research Assistant Grant, 2014-2015, \$4,000, work study support
 Dorris M. Ehret Tendall Scholarship, 2014-2015, \$1000, in support of women in science
 Studies in Creativity, 2012, \$50
 Iowa State University, 2012, \$100

Academic Honors:

2018, Vesalius Trust Scholar, Association of Medical Illustrators
 2017, Orville Parks Best in Show, Association of Medical Illustrators
 2017, Award of Excellence, Association of Medical Illustrators
 2014, BPMI 30th Anniversary Student Exhibit, Iowa State University
 2012, Studies in Creativity, Iowa State University
 2012, First Place, Pre-Biological/Pre-Medical Illustration Award Recipient, Iowa State University

Peer-Reviewed Publications:

Gilbert-Honick J., Grayson W., (2019) Vascularized and Innervated Skeletal Muscle Tissue Engineering, *Advanced Healthcare Materials*, 1900626. <https://doi.org/10.1002/adhm.201900626>
 Morrisette-McAlmon J., Hawthorne R., Grayson W., **Snyder S.**, (2018) Strategies for Tissue Engineering Vascularized Cardiac Patches to Treat Myocardial Infarctions. *Biophysical Regulation of Vascular Differentiation and Assembly*, pp. 141-175
 Madriz R., Courtney G. (2016) The Neotropical tanyderid *Araucoderus gloriosus* (Diptera, Tanyderidae), with description of the egg, larva and pupa, redescription of adults, and notes on natural history. *Zootaxa* 4158(3): 325-351

Publications:

Snyder S, Dittmar J, Shaffer K (2017) Stranded in Cape Cod Bay. In: National Aquarium Animal Rescue Sea Turtle Rehabilitation Husbandry Manual, National Aquarium, Baltimore, MD.
Snyder S, Dittmar J, Shaffer K (2017) Stranded in Cape Cod Bay. In: Level 1 Animal Rescue, Level 1 Sea Turtle Volunteer Training. In: National Aquarium Animal, Baltimore, MD.

Exhibitions, covers, abstracts:

- Snyder S.**, (2019) Professional Salon, Association of Medical Illustrators, Milwaukee, WI, July 24,27, 2019.
- Snyder S.**, (2019) Craniofacial Bone-Tissue Engineering: Heparin-Conjugated Decellularized Bone Particles Promote Enhanced Osteogenic signaling of PDGF-BB to Adipose-Derived Stem Cells in Tissue Engineered Bone Grafts. “Advanced Healthcare Materials” Cover for Volume 8, Issue 10, May 23, 2019.
- Snyder S.**, (2018) Student Salon, Association of Medical Illustrators, Boston, MA July18-21, 2018.
- Snyder S.**, (2018-2019) Aperture Configuration. “Infinite Potentials” SciArt Center exhibition at ArtCell (Cambridge, U.K.) and New York Hall of Science (New York City), in collaboration with the Cambridge Stem Cell Institute.
- Snyder S.**, (2018) Stem Cell Orchestra: building a cardiac patch. JHU-AU Student Exchange, Baltimore, MD, April 19-21, 2018.
- Snyder S.**, (2018) Stem Cell Orchestra: building a cardiac patch. DOM Research Retreat: Re-engineering Medical Discovery, Baltimore, MD, March 16, 2018.
- Snyder S.**, (2017) Medical Illustration Exhibit, Baltimore County Public Library, Baltimore, MD, Oct-Dec, 2017.
- Snyder S.**, (2017) Surgical Illustration Public Forum, Chevy Chase Auditorium, Baltimore, MD, December 13, 2017.
- Snyder S.**, (2017) Preeclampsia: Vascular Pathology of the Gravid Uterus, Pathology Course, Baltimore, MD, December
- Snyder S.**, (2017) Augusta Student Exchange, Augusta, GA, April 21-22, 2017.
- Snyder S.**, (2017) Student Salon, Association of Medical Illustrators, Austin, TX, July 24-26, 2017.
- Snyder S.**, (2016) The Les & Carol Kirkegaard Orchid Collection, The Howard Peters Rawlings Conservatory & Botanical Gardens, Baltimore, MD, June 3, 2016.
- Snyder S.**, (2016) Biological Sketching Student Workshop, Center of Investigation in Ecosystems of Patagonia, Coyhaique, Chile, January 5-11, 2016.
- Snyder S.**, (2015) Implementing and Illustrating Contemporary Museum Curating Techniques, ISU Science with Practice Convention, Ames, IA, May, 2015.
- Snyder S.**, (2015) Illustrating the Top Ten Medically Relevant Mosquito Species of the Midwest, and Process of Illustrating a Lucid Key for Mosquito Species, Undergraduate Student Researchers Symposium, Ames, IA, April, 2015.
- Snyder S.**, (2015) A multiple siRNA-based anti-HIV/SHIV Microbicide shows protection in both *in vitro* and *in vivo* models, All Iowa Virology Symposium, Iowa City, IA, March 2015.
- Snyder S.**, (2015) Deciphering the Evolutionary Origin of Feathers, Biological Communications, Iowa State University, Ames, IA, March, 2015.
- Snyder S.**, (2015) Boundary Waters Fine Art Exhibition, Great Lakes Aquarium, Duluth, MN, 2014-2015.
- Snyder S.**, (2014) Boundary Waters Fine Art Exhibition, Art on Main, Ames, IA, 2014.
- Snyder S.**, (2014) BPMI 20th Anniversary Student Exhibition, College of Design, Ames, IA, 2014.
- Snyder S.**, (2012) Studies in Creativity, College of Design, Ames, IA, 2012.

Inventions, Patents, Copyrights:

Patent Pending	Avoid Lead Poisoning
Jan 16, 2019	Salivary Gland Stones
Oct 31, 2018	Anosmia
Sep 20, 2018	Breast Cancer Nutrition Infographic
Aug 29, 2018	SMILE (Small Incision Lenticle Extraction)
May 20, 2018	Ahmed Glaucoma Drainage Valve: Concept for Tradeshow Booth Display
Mar 20, 2018	Stem Cell Orchestra: interactive didactic animation for cardiac tissue engineering
Dec 13, 2017	Cavernous Malformation Removal from Cervical Spinal Cord
Dec 13, 2017	Total Colectomy: Dividing Medial Mesenteric Attachments of the Right Colon
Dec 12, 2017	Angiogenesis Interactive Animation
Nov 29, 2017	Surgical Removal of a Cavernous Malformation Patient Education
Oct 9, 2017	Right Common Carotid to Subclavian Artery Bypass Surgery
Sept 14, 2017	Open Decompression of the Ulnar Nerve
Aug 9, 2017	Red Cabbage as a Model of the Fibonacci Spiral

July 19, 2017	POPI: Personalized Opiate Prevention Inspiration
Jun 29, 2017	Secondary HIV Receptor Mechanism
Jun 27, 2017	Perpetuation of Rheumatoid Arthritis through Angiogenesis
May 25, 2017	SIDS: Link to Gut Diversity Mock Nature Cover
May 18, 2017	Growth and Spread of PanIN Lesions in 3Dimensional Space
May 10, 2017	Stranded in Cape Cod Bay
Apr 3, 2017	3D Baby Heart Massage Trainer
Feb 28, 2017	Borders and Choroid Plexus of the 3 rd Ventricle
Feb 16, 2017	Vasculature of the Uterus
Jan 18, 2017	Lumbar Plexus – Origins and Muscular Perforations
Jan 11, 2017	Ovipositioning Configurations of the Giant Ichneumon Wasp
Nov 29, 2016	Performing Emergency Cardiac Tamponade
Aug 19, 2016	Hip Bone
June 3, 2016	Kirkegaard Orchids
Feb 23, 2016	Chilean bee
Dec 9, 2015	<i>Neoderus patagonicus</i>
Aug 16, 2015	<i>Araucoderus gloriosus</i>
July 23, 2015	Ancient Moth Fly
July 4, 2015	<i>Tanyderus pictus</i>
April 20, 2015	Midwestern Mosquito Lucid Key
Oct 7, 2014	Painted Turtle
Oct 14, 2014	Yellow-legged frog
Oct 21, 2014	Western Terrestrial Garter Snake

Service and Leadership:

Feb 24, 2019-Mar 13, 2019	Inez Demonet Scholarship Judge
Nov 26, 2018-Jan 21, 2019	Vesalius Trust Scholarship Judge
July 23, 2018	AMI Anatomical Drawing Workshop volunteer
Aug 8, 2017-May 23, 2018	Graduate Student Association Representative