

Ana Beiriger

biomedical animator & illustrator

CONTACT

www.anabeiriger.com
beiriger.art@gmail.com

SKILLS

Adobe Creative Suite:

Illustrator
Photoshop
InDesign
After Effects
Audition
XD

Animation & Modeling:

Autodesk 3ds Max
TyFlow
Pixologic ZBrush
Blender
Substance Painter

Renderers:

Arnold
VRay
Redshift

Web Development:

HTML/ CSS

Data & Segmentation:

Visual Molecular Dynamics
CHARMM-GUI
FIJI/ ImageJ
Materialise Mimics

General:

Scientific Writing
Script Writing
Storyboarding
Graphic Design
Vector Illustration
Raster Illustration
3D Modeling
3D and 2D Animation
Molecular Visualization
Prototype Development
Web Design
UI/UX Design

EDUCATION

MS in Medical Illustration | May 2022
University of Illinois at Chicago

PhD in Developmental Biology | Mar 2020
University of Chicago

BS in Integrative Biology | Jun 2013
University of Illinois at Urbana-Champaign

EXPERIENCE

Project Manager - Medical | June 2022 - present
Real Chemistry / Rad Science

- Specialized in management of scientific visualization projects, including illustrations, 2D / 3D animations, websites, and virtual reality applications.
- Developed project milestones, timelines, staffing grids, and burn reports to guide entire project lifetime from initial planning stages through to launch.

Scientific Illustrator - Freelance | Mar 2022 - present

- Developed custom illustrations for publication in academic journals, working closely with researchers to visualize complex laboratory techniques and findings.

Postdoctoral Scholar | Mar 2020 - Mar 2021
University of Chicago, Organismal Biology and Anatomy

- Prepared detailed illustrations for publications, review articles, and seminars.
- Contributed to scientific writing and editing for primary research articles, reviews, and grant applications, leading to successful publication and funding.

Graduate Research Fellow | Sept 2013 - Mar 2020
University of Chicago, Organismal Biology and Anatomy

- Secured funding from the National Science Foundation for an independent research project on motor and sensory efferent neurons in the zebrafish hindbrain.
- Spearheaded internal and external collaborations with computer scientists to build tools for analysis of 5D microscopy data.

Science Communications Intern | Jan 2019 - Jun 2019
University of Chicago Medicine, Comprehensive Cancer Center

- Designed brochures on cancer prevention, detection, and treatment for patients.
- Wrote news articles for the university website on advances in cancer research.

Graphic Designer, Illustrator, and Editor | Aug 2016 - Aug 2019
Expanding Your Horizons Chicago, Organizing Committee Volunteer

- Established a consistent visual identity and organizational voice across flyers, programs, fundraising materials, and social media posts.
- Created a bi-monthly newsletter and managed contributing authors.

Research Assistant | Jan 2010 - May 2013
University of Illinois at Urbana-Champaign, Institute for Genomic Biology

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PUBLISHED ARTWORK

- 2022 *Developmental Biology*. Cover Art. Vol. 501 (2023) 1-174.
2020 *Development*, 147(20), dev193888. <https://doi.org/10.1242/dev.193888>
2019 *Developmental Dynamics*, 249(1), 88-111. <https://doi.org/10.1002/dvdy.122>

SCIENTIFIC PUBLICATIONS

- A. Beiriger**, S. Narayan, N. Singh, and V.E. Prince. (2021). Development and migration of the zebrafish rhombencephalic octavolateral efferent neurons. *J. of Comparative Neurology*, 529(7), 1293-1307.
- M. Rocha, **A. Beiriger**, E.E. Kushkowsky, T. Miyashita, N. Singh, V. Venkataramen, and V.E. Prince. (2020). From head to tail: regionalization of the neural crest. *Development*, 147(20), dev193888.
- M. Guo, Y. Li, ... **A. Beiriger**, ... & H. Shroff. (2020). Rapid image deconvolution and multiview fusion for optical microscopy. *Nature Biotechnology*, 38(11), 1337-1346.
- M. Rocha, N. Singh, K. Ahsan, **A. Beiriger**, and V.E. Prince. (2020). Neural crest development: insights from the zebrafish. *Developmental Dynamics*, 249(1), 88-111
- J.A. Goldstein, S. Bogdanovich, **A. Beiriger**, ... & E.M. McNally. (2014). Excess SMAD signaling contributes to heart and muscle dysfunction in muscular dystrophy. *Human Molecular Genetics*, 23(25), 6722-6731.
- A. Beiriger** and K.E. Sears. (2014). Cellular basis of differential limb growth in postnatal gray short-tailed opossums (*Monodelphis domestica*). *Journal of Experimental Zoology*, 322(4), 221-229.

HONORS & AWARDS

- 2022 **Achievement Award in Biomedical Illustration** | University of Illinois at Chicago
2020 **Departmental Award for Best Dissertation** | University of Chicago
2018 **Delegate to the Lindau Nobel Laureate Meeting** | Lindau, Germany
2014-20 **Graduate Research Fellowship (GRF) Award** | National Science Foundation
2013 **Highest Distinction for Research** | University of Illinois
2013 **Harriet Long Award for Academic Achievement** | University of Illinois

PROFESSIONAL ORGANIZATIONS

- 2021-22 Association of Medical Illustrators
2020-22 Student Association of Medical Artists
2018-19 American Association for the Advancement of Science
2015-19 Society for Developmental Biology

LEADERSHIP & SERVICE

- 2021-22 **Secretary for the Student Association of Medical Artists** | University of Illinois at Chicago
2021-22 **Scientific Workshop Leader** | Project Exploration | Chicago, IL
2016-19 **Graphics Subcommittee Lead** | Expanding Your Horizons | Chicago, IL
2014-16 **Scientific Workshop Leader and Science Fair Coach** | Paradigm Shift | Chicago, IL