

EDUCATION

- 05-Present **PhD Candidate: Biophysics**
National Science Foundation Fellow
Scripps Research Institute (Olson Lab)
La Jolla, CA
- 02-2004 **Chemistry and Medical Prerequisites**
University of Colorado at Boulder
Boulder, CO GPA 3.76 GRE: 760q 620v
- 95-1997 **Master of Arts**
Dept. of Art as Applied to Medicine
Johns Hopkins School of Medicine
Baltimore, MD
See awards and scholarships below
- 91-1995 **Bachelor of Arts: Scientific Illustration**
St. Mary's College of Maryland
St. Mary's City, MD
Cum laude
Dean's List 1991- 1995
St. Mary's Scholar
4 years varsity lacrosse
- 87-1991 **Joppatowne High School**
Joppa, MD
National Honor Society
3 years varsity lacrosse
3 years varsity soccer

ILLUSTRATION EXPERIENCE

- 97-Present **Cell Biology: Illustrator/Coauthor for Tom Pollard and Bill Earnshaw, 2e started 2005**
The Salk Institute, La Jolla, CA
Boulder, CO (current)
Motivate and organize authors while functioning as sole illustrator and art director for first edition textbook and ongoing revisions in preparation for future editions. Created original artwork for first addition **Cell Biology** textbook for W.B. Saunders. Scripted and animated sixteen figures for multimedia CD that accompanies the text. Consulted with structural biology group to modify molecular rendering software. Researched and edited 1600 figures I previously illustrated to incorporate new science.
- 97-2006 **Freelance Artist and Cofounder of fiVth.com**
Boulder, CO
Sketch and illustrate journal and textbook cover pieces and inside art. Model and animate teaching videos for scientific publishers and researchers. Consult with artists and academics to improve molecular rendering and imagery.
- 00-2002 **Molecular Biology of the Cell: Animator and Narration Collaborator for Alberts, et. al.**
Garland Science, San Francisco, CA
Isolate and outline concepts and figures worthy of animation for inclusion on book's CD. Write original scripts and storyboards for Flash presentations for editing by Peter Walter. Translate voice-over scripts and concepts written by Peter Walter into pedagogic movies.
- 1996-1997 **Macintosh Technical Support Scholar**
Johns Hopkins University School of Medicine
Maintained functioning hardware and software in department's digital lab. Solved problems and answered questions related to system and graphics software. Provided liaison to university and private industry technical support.
- 1996 **Freelance Apprentice**
Medical Arts Medical Illustration Services. Melbourne, Australia
Dr. Levent Efe M.D., C.M.I.
Structured complex client information into comprehensive explanatory sketches. Negotiated contracts with doctors, pharmaceutical representatives, and ad agents. Rendered ink, tone, and full color surgical illustrations for camera ready art.
- 1995-1996 **Paleontological Illustration**
Johns Hopkins University: Department of Anatomy
Illustrated fossil teeth for doctoral dissertation.
Prepared tone and ink illustrations for publication.

AWARDS

- NSF Predoctoral Fellowship
1st place, NSF Science Vis. Challenge
Certificate of Merit (Synapse Revealed)
Award of Excellence (**Cell Biology** text)
Arron Price Fellows program speaker
Annette Burgess Award (ophthalmological)
Certificate of Merit (Popliteal Fossa tone)
William P. Didusch Scholarship
- National Science Foundation, Initiates September 2006
National Science Foundation, Science Magazine September 2005
Association of Medical Illustrators, Los Angeles, CA, July 2005
Association of Medical Illustrators, Austin, TX, July 2002
Salk Institute, La Jolla, CA, October 1999
Johns Hopkins School of Medicine 1997
Association of Medical Illustrators, Cincinnati, OH, July 1996
Johns Hopkins University 1995-1997

REFERENCES

- Thomas Pollard
William C. Earnshaw
Ron Milligan
Gary P. Lees
- Yale University, New Haven, CT
University of Edinburgh, Edinburgh, Scotland
The Scripps Research Institute, La Jolla, CA
Johns Hopkins School of Medicine, Baltimore, MD
Additional references available upon request.

SELECTED PUBLICATIONS

- Goodsell DS, Johnson GT, *Filling in the gaps: artistic license in education & outreach*. PLoS Biol. 2007 Dec;5(12):e308. -Coauthored article on artistic license.
- Pollard and Earnshaw, **Cell Biology 2e**. Elsevier, New York, January 2007. -Coauthored 2nd edition of my textbook.
- Muhrad and Michalowski, Howard Hughes Medical Inst. Bulletin, Sept 2005. -Alt splicing and proteasome illustrations
- Olson, Steve, Howard Hughes Medical Institute Bulletin, October 2004. -Synapse illustrations
- Wortman, Marc, Howard Hughes Medical Institute Bulletin, September 2004. -DNA repair illustrations
- Ronald Miller, M.D., Chair Dept. of Anesth. & Preop. Care, UCSF, 2004 -Synapse Illustrations/animations
- Ronald Miller, M.D., Chair Dept. of Anesth. & Preop. Care, UCSF, 2004 -Anesthesia literalism cartoons
- Bill Young, M.D., Dept. of Anesthesia and Preop. Care, UCSF, 2004 -Aneurysm Dynamics simulation film
- Krogh, **The Science of Life**, Addison-Wesley, 2003. -300 biology watercolor illustrations
- Jeanine Wiener-Kronish M.D., Vice Chairman of the Dept. of Anesthesia and Preoperative Care, UCSF, 2003 -Pseudomonas animation movie qual.
- Pollard and Earnshaw, **Cell Biology Electronic Image Collection**. W.B. Saunders, Philadelphia, August 2002. -CD with 16 Flash animations
- Pollard and Earnshaw, **Cell Biology**. W.B. Saunders, Philadelphia, May 2002. -1600 molecular and cell biology figs.
- Alberts et. al., **Molecular Biology of the Cell**, Garland Science, San Francisco, March 2002. -5 original movies, 1 written script
- Alberts et. al., **Essential Cell Biology**, Garland Science, San Francisco, TBA. -15 narration scripts and storyboards
- David Bredt, *Synaptic Strength Regulated by Palmitate Cycling on PSD-95*. Cell, 2002 108; 849-863. -2 color figures
- Susumu Tomita, *PDZ Protein Interactions...* Journal of Cell Biology, pF22, V153, 2001. -2 color figures
- Boyer, **Concepts in Biochemistry**. Brooks/Cole Publishing, Boston, MA, 2001. -Textbook cover co-illustrator
- Ron Vale, *Journal of Cell Biology*. Rockefeller Press, San Francisco, November 27, 2000. -Journal cover art
- Milligan, Vale, *The Way Things Move*. Science, Washington D.C., April 7, 2000. -Animations, illustrations for journal
- Mathews, Van Holde, **Biochemistry**. Addison Wesley Longman, San Francisco, Fall 1999. -Textbook cover art, 40 biochem figs.
- Traffic*. Munksgaard, Denmark, Fall 1998. -Cover art for add campaign
- Barbara Aehlert, *EMT Basic Study Guide*. Williams & Wilkins, Baltimore, Fall 1997. -110 ink/color figures
- Graham Johnson, *3D Applications in an Archetype for Education: A multimedia computer frog dissector with accompanying plastic model*. JHU School of Med., 1997. -Masters Thesis
- Save Our Streams, *Macroinvertebrates in the Stream*. 1997. -6 foot acrylic outdoor mural
- Hand Surgery**, Dr. Bruce Conolly, Churchill Livingstone, Feb. 1997. -32 pen and ink illustrations
- William S. Peters, *Minimally Invasive Mitral Valve Replacement*, **Annals of Thoracic Surgery**, 1997. -6 tonal illustrations
- Australian Family Physician, Vol. 25, journals 8, 9, &10, 1996. -8 tonal illustrations
- Servier Pharmaceutical, 1996. -A3 size add campaign illustration
- J. Walter Thompson, Sydney Agency for Glaxo, 1996. -Full color pharmaceutical ad
- M. O'leary, *Dental Evolution in the Early Eocene Notharctinae (Primates, Adapiformes) from the Bighorn Basin, Wyoming: Documentation of Gradual Evolution in the Oldest True Primates*, JHU School of Medicine, 1996. -40 tonal rendering

SELECTED PUBLICATIONS / ODD JOBS

- Tim Harris, Peptimmune, Cambridge, MA 2003, 2004 -Animations for Biotech ad
- FMR Graphics, Denver, CO -Courtroom instruction animations
- John Ripple, Syntonix, Waltham, MA 2002, 2004 -Animations for pharmaceutical ad
- Carolyn Cohen, Brandeis University, 2001 -Actin artwork template
- Dan Kiehart, Duke University, 2002 -Actin assembly slide
- Kurt Thorn, UCSF, 2000 -Kinesin/tubulin interaction
- Anatomy and Physiology of Muscle Tissue, Addison Wesley, 1999 -12 minute animation
- DNA Replication, Addison Wesley, 1999 -8 minute animation
- David White, *Symmetry*, Addison Wesley, 1999 -4 minute animation

SKILLS

I have training and experience in the following media:

Carbon dust, Airbrush, Pen and ink, Sculpting, Watercolor, Oils, Pencil

I have training and experience in following computer programs:

Cinema 4D, Flash ,Adobe's After Effects, Illustrator and Photoshop. Numerous molecular viewers

BIOGRAPHY

To view a publisher's biography, please visit the website URL

<http://www3.us.elsevierhealth.com/SIMON/Pollard/authors.html>

PORTFOLIO

To view samples of my illustration and animation artwork please visit the website URL

<http://www.fivth.com/fiVthSite/web-content/NewFiles/GrahamJcom/web-content/gjHome.html>