

# DANIELHAEHN.COM

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## machine learning + visualization + connectomics

### EDUCATION

**Harvard University** · Cambridge, Massachusetts  
PhD Student · Computer Science · since September 2013

**University of Heidelberg** · Heidelberg, Germany  
Diplom (M.S.) · Medical Computer Science · March 2010 · Area of Study: Signal- and Image Processing  
Thesis Topic: Coronary Artery Centerline Extraction · Thesis Grade: excellent (A)  
Vordiplom (B.S.) · Medical Computer Science · March 2007 · With Honors, Rank #1 of class, all study fees waived

**Harvard Medical School** · Boston, Massachusetts  
Exchange Student at the Surgical Planning Laboratory at Brigham and Women's Hospital · October 2008 to August 2009

### AWARDS

Winkler Scholarship · July 2015 to July 2017  
Harvard University Fellowship (\$64,000 / year) · September 2013 to June 2017  
Realtime Live! presentation of Slice:Drop at ACM SIGGRAPH · July 2013  
Visualizing.org Winning Project for IEEE Vis 2012 · September 2012  
INCF Neuroinformatics 2012 Spotlight Presentation (8 selected out of 151 accepted submissions) · September 2012  
Mozilla Hacks Dev Derby "WebGL", 2nd Place · June 2012  
1st Prize for End User Tutorial, National Alliance of Medical Image Computing (NA-MIC) · January 2010  
Karl Steinbuch Foundation Scholarship (\$12,000) · November 2008 to November 2009  
Thomas Gessmann Foundation Scholarship (\$10,000) · October 2007 to October 2009

### PROFESSIONAL

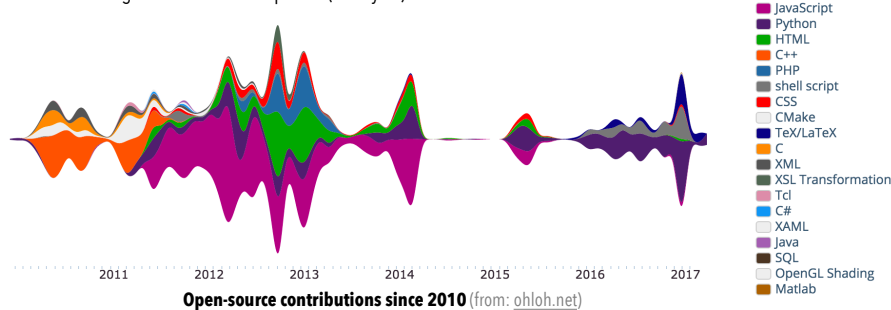
**Boston Children's Hospital** · Boston, Massachusetts · September 2011 to August 2013  
Research Software Developer III · Fetal Neonatal Neuroimaging and Developmental Science Center

**University of Pennsylvania** · Philadelphia, Pennsylvania · June 2010 to August 2011  
Research Scholar and Software Engineer · Section for Biomedical Image Analysis

**University of Heidelberg** · Heidelberg, Germany · October 2004 to March 2010  
Student Research Assistant

### SKILLS

All major programming languages · JavaScript + Python preferred  
Traditional and Agile Software Development (Full cycle)



### PROJECTS

**Dojo (JavaScript/Python/WebGL)** [~9,700 LOC]  
interactive proofreading of image data  
role: maintainer, developer [100%]

**Slice:Drop (JavaScript/WebGL)** [~17,600 LOC]  
interactive viewer for medical imaging data  
role: maintainer, developer [94%, 4 devs.]

**XTK (JavaScript/WebGL)** [~11,700 LOC]  
SDK for scientific visualization using WebGL  
role: maintainer, developer [70%, 19 devs.]

**3D Slicer (C++/Python)** [~1.4M LOC]  
medical image analysis, role: dev. [2%, 91 devs.]

### PEOPLE

**MENTORS**  
Professor Hanspeter Pfister · Harvard University · [pfister@seas.harvard.edu](mailto:pfister@seas.harvard.edu)  
Professor Jeff Lichtman · Harvard University · [jeff@mcb.harvard.edu](mailto:jeff@mcb.harvard.edu)  
Professor Ron Kikinis · Harvard Medical School · [kikinis@bwh.harvard.edu](mailto:kikinis@bwh.harvard.edu)  
Professor Kilian Pohl · Stanford University · [kilian.pohl@sri.com](mailto:kilian.pohl@sri.com)  
Professor Ellen Grant · Harvard Medical School · [ellen.grant@childrens.harvard.edu](mailto:ellen.grant@childrens.harvard.edu)  
Dr. Steve Pieper · Isomics Inc. · [pieper@bwh.harvard.edu](mailto:pieper@bwh.harvard.edu)  
Dr. Rudolph Pienaar · Boston Children's Hospital · [rudolph.pienaar@childrens.harvard.edu](mailto:rudolph.pienaar@childrens.harvard.edu)

### STUDENTS

Jay Andrew Robinson · 2013  
William Zhang · 2015  
Eagon Meng · 2015  
Omar Shaikh · 2016  
John Hoffer · 2016, 2017