



I am a biomedical imaging and visualization researcher who investigates how computational methods can accelerate biological and medical research.

Education

2019 PhD in Computer Science, Harvard University Cambridge, MA

Analyzing Brain Connectivity and Computing Machine Perception

Advisor: Hanspeter Pfister

Committee: Steven Gortler, Finale Doshi-Velez, Scott Kuindersma, Jeff W. Lichtman

2010 Diplom (MSc) in Medical Computer Science, University of Heidelberg Germany

Signal- and Image Processing

Thesis: Coronary Artery Centerline Extraction Advisors: Hartmut Dickhaus, Ron Kikinis

2007 Vordiplom (BSc) in Medical Computer Science, University of Heidelberg Germany

with Honors, rank #1 of class, all study fees waived

Experience

2019-present University of Massachusetts Boston Boston, MA

Assistant Professor of Computer Science (Tenure-track) Director of the Machine Psychology research group

Associate of the Harvard John A. Paulson School of Engineering and Applied Sciences

Summer 2017 Apple, Inc. Cupertino, CA

Research Intern in Data Science

Summer 2014 Mental Canvas New York City, NY

Research Intern in Computer Graphics

2011-2013 Boston Children's Hospital Boston, MA

Research Software Developer III, Fetal Neonatal Neuroimaging and Developmental Science Center

Advisors: Rudolph Pienaar, P. Ellen Grant

Updated 04/2023 1 / 11 Daniel Haehn, University of Massachusetts Boston

2010-2011 University of Pennsylvania Philadelphia, PA

Research Scholar, Section for Biomedical Image Analysis

Advisor: Kilian Pohl

2009 German Cancer Research Center (DKFZ) and BioQuant Center Heidelberg, Germany

Research Assistant, Biomedical Computer Vision and Experimental Radiology Research Groups

Advisors: Stefan Wörz, Hendrik von Tengg-Kobligk

2008-2009 Brigham and Women's Hospital Boston, MA

Fellow, Department of Radiology and the Surgical Planning Laboratory

Advisors: Ron Kikinis, Steve Pieper, Luca Antiga

Publications

From UMass Boston (* undergraduate student, ** graduate student; all peer-reviewed)

2023 Ryan Zurrin*, Neha Goyal**, Pablo Bendiksen**, Muskaan Manocha**, Dan Simovici, Nurit Haspel, Marc Pom-

plun, and Daniel Haehn. Outlier Detection for Mammograms. International Conference on Medical Imaging

with Deep Learning (MIDL).

2023 Ramin Dehghanpoor**, Fatemeh Afrasiabi**, Charles Fogel*, Tung Dao*, Suman Gautam*, Aanab Nehela*,

Ahmad Nehela*, Daniel Haehn, and Nurit Haspel. Classifying Protein Families with Learned Compressed

Representations. *International Conference on Bioinformatics (Best Paper Award at BICOB).*

2023 Daniel Karl I. Weidele, Shazia Afzal, Abel N. Valente, Cole Makuch, Owen Cornec, Long Vu, Dharmashankar

Subramanian, Werner Geyer, Rahul Nair, Inge Vejsbjerg, Radu Marinescu, Paulito Palmes, Elizabeth M. Daly,

Loraine Franke**, and <u>Daniel Haehn</u>. AutoDOViz: Human-Centered Automation for Decision Optimization.

ACM International Conference on Intelligent User Interfaces (IUI).

2022 Neha Goyal**, Yahiya Hussain*, Gianna G. Yang*, and <u>Daniel Haehn</u>. Real-Time Alignment for Connectomics.

Springer LNCS: Biomedical Image Registration (WBIR).

2022 Francois Rheault, Valérie Hayot-Sasson, Robert E. Smith, Christopher Rorden, Jacques-Donald Tournier, Eleft-

> herios Garyfallidis, Fang-Cheng Yeh, Christopher J. Markiewicz, Matthew Brett, Ben Jeurissen, Paul A. Taylor, D. Baran Aydogan, Derek A. Pisner, Serge Koudoro, Soichi Hayashi, Daniel Haehn, Steve Pieper, Daniel Bullock, Emanuele Olivetti, Jean-Christophe Houde, Marc-Alexandre Côté, Flavio Dell'Acqua, Alexander Leemans, Maxime Descoteaux, Bennett Landman, Franco Pestilli, and Ariel Rokem. TRX: A community-oriented trac-

tography file format. OHBM 2022-Human Brain Mapping (Oral).

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Daniel Haehn, Un	iversity of Massachusetts Boston 🖂 haehn@cs.umb.edu 🗘 haehn 🗹 danielhaehn.com
2022	Jay Burkhardt*, Aaryaman Sharma*, Jack Tan*, Loraine Franke**, Jahnavi Leburu**, Jay Jeschke, Sasha Devore, Daniel Friedman, Jingyun Chen, and <u>Daniel Haehn</u> . N-Tools-Browser: Web-Based Visualization of Electrocorticography Data for Epilepsy Surgery . <i>Frontiers in Bioinformatics</i> .
2022	Katharina Paulick, Simon Seidel, Christoph Lange, Annina Kemmer, Mariano Nicolas Cruz-Bournazou, André Baier, and <u>Daniel Haehn</u> . Promoting Sustainability through Next-Generation Biologics Drug Development . <i>MDPI Sustainability</i> .
2022	Nalini M. Singh, Jordan B. Harrod, Sandya Subramanian, Mitchell Robinson, Ken Chang, Suheyla Cetin-Karayumak, Adrian Vasile Dalca, Simon Eickhoff, Michael Fox, Loraine Franke**, Polina Golland, <u>Daniel Haehn</u> , Juan Eugenio Iglesias, Lauren J. O'Donnell, Yangming Ou, Yogesh Rathi, Shan H. Siddiqi, Haoqi Sun, M. Brandon Westover, Susan Whitfield-Gabrieli, and Randy L. Gollub. How Machine Learning is Powering Neuroimaging to Improve Brain Health. <i>Neuroinformatics</i> .
2021	Bella Baidak*, Yahiya Hussain*, Emma Kelminson*, Thouis R. Jones, Loraine Franke**, and <u>Daniel Haehn</u> . CellProfiler Analyst Web (CPAW) - Exploration, analysis, and classification of biological images on the web. <i>IEEE Visualization Short Paper (IEEE VIS)</i> .
2021	Loraine Franke**, Daniel Karl I Weidele, Fan Zhang, Suheyla Cetin-Karayumak, Steve Pieper, Lauren J O'Donnell, Yogesh Rathi, and <u>Daniel Haehn</u> . FiberStars: Visual Comparison of Diffusion Tractography Data between Multiple Subjects. <i>IEEE Pacific Visualization (PacificVis)</i> .
2020	Loraine Franke** and <u>Daniel Haehn</u> . Modern Scientific Visualizations on the Web. <i>MDPI Informatics</i> .
2020	<u>Daniel Haehn</u> , Loraine Franke**, Fan Zhang, Suheyla Cetin Karayumak, Steve Pieper, Lauren O'Donnell, and Yogesh Rathi. TRAKO: Efficient Transmission of Tractography Data for Visualization. <i>Medical Image Computing and Computer-Assisted Intervention (MICCAI)</i> .
2020	Vincent Casser, Kai Kang, Hanspeter Pfister, and <u>Daniel Haehn</u> . Fast Mitochondria Detection for Connectomics. International Conference on Medical Imaging with Deep Learning (Spotlight Award at MIDL).
2020	Zudi Lin, Donglai Wei, Won-Dong Jang, Siyan Zhou, Xupeng Chen, Xueying Wang, Richard L. Schalek, Daniel R. Berger, Brian Matejek, Lee D. Kamentsky, Adi Peleg, <u>Daniel Haehn</u> , Thouis R. Jones, Toufiq Parag, Jeff W. Lichtman, and Hanspeter Pfister. Two-Stream Active Query Suggestion for Large-Scale Object Detection in Connectomics. <i>European Conference on Computer Vision (ECCV)</i> .
2020	Fritz Lekschas, Brant Peterson, <u>Daniel Haehn</u> , Eric Ma, Nils Gehlenborg, and Hanspeter Pfister. <u>Peax: Interactive Visual Pattern Search in Sequential Data Using Unsupervised Deep Representation Learning</u> . <u>Computer Graphics Forum (Best Paper Award at EuroVis)</u> .

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Prior to UMass Boston

2019	Brian Matejek, <u>Daniel Haehn</u> , Haidong Zhu, Donglai Wei, Toufiq Parag, and Hanspeter Pfister. Biologically-Constrained Graphs for Global Connectomics Reconstruction . <i>IEEE Computer Vision and Pattern Recognition (CVPR)</i> .
2018	<u>Daniel Haehn</u> , James Tompkin, and Hanspeter Pfister. Evaluating 'Graphical Perception' with CNNs . <i>IEEE Transactions on Visualization and Computer Graphics (IEEE VIS)</i> .
2018	<u>Daniel Haehn</u> , Verena Kaynig, James Tompkin, Jeff W. Lichtman, and Hanspeter Pfister. Guided Proofreading of Automatic Segmentations for Connectomics. <i>IEEE Computer Vision and Pattern Recognition (CVPR)</i> .
2017	<u>Daniel Haehn</u> , John Hoffer, Brian Matejek, Adi Suissa-Peleg, Ali K. Al-Awami, Lee Kamentsky, Felix Gonda, Eagon Meng, William Zhang, Richard Schalek, Alyssa Wilson, Toufiq Parag, Johanna Beyer, Verena Kaynig, Thouis R. Jones, James Tompkin, Markus Hadwiger, Jeff W. Lichtman, and Hanspeter Pfister. Scalable Interactive Visualization for Connectomics. <i>MDPI Informatics</i> .
2017	Brian Matejek, <u>Daniel Haehn</u> , Fritz Lekschas, Michael Mitzenmacher, and Hanspeter Pfister. Compresso: Efficient Compression of Segmentation Data For Connectomics. <i>Medical Image Computing and Computer-Assisted Intervention (MICCAI)</i> .
2017	Felix Gonda, Verena Kaynig, Thouis R. Jones, <u>Daniel Haehn</u> , Jeff W. Lichtman, Toufiq Parag, and Hanspeter Pfister. ICON: An Interactive Approach to train Deep Neural Networks for Segmentation of Neuronal Structures. <i>IEEE International Symposium on Biomedical Imaging (ISBI)</i> .
2017	Rudolph Pienaar, Ata Turk, Jorge Bernal-Rusiel, Nicolas Rannou, <u>Daniel Haehn</u> , P. Ellen Grant, and Orran Krieger. CHIPSA Service for Collecting, Organizing, Processing, and Sharing Medical Image Data in the Cloud. <i>VLDB Workshop on Data Management and Analytics for Medicine and Healthcare</i> .
2016	Adi Suissa-Peleg, <u>Daniel Haehn</u> , Seymour Knowles-Barley, Verena Kaynig, Thouis R. Jones, Alyssa Wilson, Richard Schalek, Jeff W. Lichtman, and Hanspeter Pfister. <u>Automatic Neural Reconstruction from Petavoxel of Electron Microscopy Data</u> . <i>Microscopy and Microanalysis</i> .
2016	Ali K. Al-Awami, Johanna Beyer, <u>Daniel Haehn</u> , Narayanan Kasthuri, Jeff W. Lichtman, Hanspeter Pfister, and Markus Hadwiger. NeuroBlocksVisual Tracking of Segmentation and Proofreading for Large Connectomics Projects. <i>IEEE Transactions on Visualization and Computer Graphics (IEEE VIS)</i> .
2016	Richard Schalek, Dong Lee, Narayanan Kasthuri, Adi Peleg, Thouis R. Jones, Verena Kaynig, <u>Daniel Haehn</u> , Hanspeter Pfister, David Cox, and Jeff W. Lichtman. Imaging a 1 mm ³ Volume of Rat Cortex using a Multi-Beam SEM. <i>Microscopy and Microanalysis</i> .
2015	Kiho Im, Banu Ahtam, <u>Daniel Haehn</u> , Jurriaan M. Peters, Simon K. Warfield, Mustafa Sahin, and P. Ellen Grant.

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Altered Structural Brain Networks in Tuberous Sclerosis Complex. Cerebral Cortex.

Daniel Haehn, Un	iversity of Massachusetts Boston 🖂 haehn@cs.umb.edu 🕠 haehn 🗹 danielhaehn.com
2015	Rudolph Pienaar, Nicolas Rannou, Jorge Bernal, <u>Daniel Haehn</u> , and P. Ellen Grant. ChRISA web-based Neuroimaging and Informatics System for Collecting, Organizing, Processing, Visualizing and Sharing of Medical Data. <i>IEEE Engineering in Medicine and Biology Society (EMBC)</i> .
2014	<u>Daniel Haehn</u> , Seymour Knowles-Barley, Mike Roberts, Johanna Beyer, Narayanan Kasthuri, Jeff W. Lichtman, and Hanspeter Pfister. <u>Design and Evaluation of Interactive Proofreading Tools for Connectomics</u> . <i>IEEE Transactions on Visualization and Computer Graphics (IEEE VIS)</i> .
2013	<u>Daniel Haehn</u> , Nicolas Rannou, P. Ellen Grant, and Rudolph Pienaar. Slice:Drop Collaborative Medical Imaging in the Browser . <i>ACM SIGGRAPH Computer Animation Festival</i> .
2012	<u>Daniel Haehn</u> , Nicolas Rannou, Banu Ahtam, P. Ellen Grant, and Rudolph Pienaar. Neuroimaging in the Browser using the X Toolkit . <i>Frontiers in Neuroinformatics (Spotlight Award at INCF Neuroinformatics)</i> .
2012	Myong-sun Choe, Silvia Ortiz-Mantilla, Nikos Makris, Matt Gregas, Janine Bacic, <u>Daniel Haehn</u> , David Kennedy, Rudolph Pienaar, Verne S. Caviness Jr, April A. Benasich, and P. Ellen Grant. Regional Infant Brain Development: an MRI-based Morphometric Analysis in 3 to 13 month olds. <i>Cerebral Cortex</i> .
2012	Arno Klein, Forrest S. Bao, Yrjö Häme, Eliezer Stavsky, Joachim Giard, <u>Daniel Haehn</u> , Nolan Nichols, and Satra- jit S. Ghosh. <u>Mindboggle: Automated Human Brain MRI Feature Extraction, Labeling, Morphometry, and</u> <u>Online Visualization.</u> <i>Frontiers in Neuroinformatics</i> .
2012	Arno Klein, Nolan Nichols, and <u>Daniel Haehn</u> . Mindboggle 2 interface: Online Visualization of Extracted Brain Features with XTK. <i>Frontiers in Neuroinformatics</i> .

Grants

Funded (* Principal Investigator)

2022–2024	Sloan Foundation Grant: Culture Change in Computer Science and Engineering at the University of Mas-
	sachusetts Public University System: A Partnership Between UMass Boston and Amherst, UMB Site-PI (Co-PI
	Kimberly Hamad Schifferli, UMass Amherst: Pl Nilanjana (Buju) Dasgupta, Co-Pl Neena Thota, Co-Pl Shannon
	Roberts), \$499,972.00 (UMB share \$238,948.00)
2021–2023	National Institutes of Health, R21: Real-time visualization and precision targeting in transcranial magnetic
	stimulation, Co-PI (PI Lipeng Ning, Harvard Medical School), \$493,011.00 (UMB share \$156,663.00)
2021–2022	UMass Boston, Proposal Development Grant: Towards Developing Deep Learning Approaches for Protein-
	Protein Interaction Detection, Co-PI (PI Nurit Haspel, UMB), \$20,000.00

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Daniel Haehn, U	niversity of Massachusetts Boston 🖂 haehn@cs.umb.edu 🗘 haehn 🗹 danielhaehn.com	
2020-2023	*Massachusetts Life Sciences Center, Bits to Bytes: The Oregon-Massachusetts Mammography Database	
	(OMAMA-DB), (Co-PIs Haspel, Tonyushkin, Pomplun, Simovici; UMB), \$749,834.00	
2020	Federal Ministry of Education and Research Germany: International Future Labs for Artificial Intelligence in	
	collaboration with the KIWI Biolab at the Technical University Berlin (covering 18 months exchange visits of a	
	PostDoc and a Ph.D. student), (PI Cruz-Bournazou, TU Berlin)	
2019	*NVidia Accelerated Data Science GPU Grant, 1x Titan V100 GPU	

Presentations

* invited presentation

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2022	*Speaker at the High Performance Computing Day: Processing of Massive Biological Datasets at UMB

2022	*Speaker at Visualizing Biological Data (VIZBI): Masterclass on Scientific Visualization
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2021	*Presenter at the UMass Summit for AI, Data Science, and Robotics
/11/1	"Presenter at the Hiwass Slimmit for Al-Data Science, and Robotics
2021	i i cocinci di tito dividos summiti foi Ali, bata science, ana nobotico

2020 F	Presenter at the National Alliance for Medical Image Computing Project Week: Integrating TRAKO with 3D
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Slicer

*Speaker at the Fetal Neonatal Developmental Science Center, Boston Children's Hospital: Scientific Visu-

alization at Scale!

2020 Paper presentation at International Conference on Medical Image Computing and Computer Assisted In-

tervention: TRAKO: Efficient Transmission of Tractography Data for Visualization

*Speaker at the Lymph Node Quantification Project, Harvard Medical School: Machine-Guided Annotation

Methods

2020 Paper presentation at Medical Imaging with Deep Learning (MIDL): Fast Mitochondria Detection for Connec-

tomics

*Presentation at the UMass Boston-Dana Farber/Harvard Cancer Center initiative: Guided Tumor Detection

and Annotation Methods for Cancer Imaging

*Speaker at the Massachusetts Life Sciences Center: The Oregon-Massachusetts Mammography Database

*Researcher at Shonan Meeting No. 167 in Japan: Formalizing Biological and Medical Visualization

*Speaker at Sarah Frisken's Lab, Harvard Medical School: Brain Connectivity, Machine Perception, and Com-

puter Graphics - all at different scales!

2019 *Speaker at Suffolk University: Brain Connectivity and Machine Perception

*Speaker at the MIT McGovern Institute: The Performance Gap between the Brain and Al

2018 Paper presentation at IEEE Visualization: Evaluating 'Graphical Perception' with CNNs

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Daniel Haehn, Ui	niversity of Massachusetts Boston		naehn	danielhaehn.com
2018	Harvard Visual Computing Group meeting	presentation: The 7 Levels of	of Open Scien	ce
2018	*Speaker at Brown University, Department	of Computer Science: Anal	yzing Brain Co	onnectivity and Comput-
	ing Machine Perception			
2018	*Speaker at IBM Research (AI Systems Day)	: Evaluating 'Graphical Perce	eption' with C	NNs
2017	Harvard Visual Computing Group meeting	presentation: Guided Proo	freading of A	utomatic Segmentations
	for Connectomics			
2016	*Speaker at the IEEE Visualization Doctoral	Colloquium: Proofreading	for Connector	nics
2015	Harvard Lichtman Lab meeting presentatio	n: Interactive Proofreading 1	ools for Conn	ectomics
2014	Paper presentation at IEEE Visualization: D	esign and Evaluation of Inte	ractive Proofr	eading Tools for Connec-
	tomics			
2014	Harvard Visual Computing Group meeting	presentation: Proofreading	Tools for Con	nectomics
2014	*Speaker at the MIT Computer Graphics Gr	oup: Web-based Visualization	n of Scientifi	: Data
2014	Harvard Visual Computing Group meeting	presentation: Interactive Presentation	oofreading wi	th Dojo
2014	Harvard Lichtman Lab meeting presentatio	n: Web-based Visualization	and Proofread	ling for Connectomics
2013	Harvard Visual Computing Group meeting	presentation: Web-based S	cientific Visua	lization
2013	*Speaker at Visualizing Biological Data (VI	ZBI): Physiology & Function		
2012	Spotlight presentation at INCF Neuroinfom	atics: Neuroimaging in the	Browser using	the X Toolkit
2012	*Speaker at WebGL Camp Orlando: WebGL	for Baby Brains		

Awards

2023	Early Career Research Excellence Award in the College of Science and Mathematics at UMass Boston
2023	Best Paper Award at BICOB for Classifying Protein Families
2022	Selected for Oral Presentation at ISMRM Neuromodulation for TMS Visualization
2022	Selected for Oral Presentation at the Organization for Human Brain Mapping for TRX
2020	Best Paper Award at EuroVis for Peax
2020	Spotlight Award at MIDL: Fast Mitochondria Detection for Connectomics
2020	AI Scientist of the Future for the KIWI Biolab at the Technical University Berlin, Germany
2015–2019	Winkler Scholarship
2013-2019	Harvard University Fellowship
2013	Real-Time Live! presentation of Slice:Drop at SIGGRAPH
2012	INCF Neuroinformatics Spotlight Award for XTK
2012	Mozilla Hacks WebGL Dev Derby Runner-up for Slice:Drop
2012	Visualizing.org VisWeek Challenge Winner with Slice:Drop
2010	1st Prize for End User Tutorial at the National Alliance of Medical Image Computing (NA-MIC)
2008-2009	Karl Steinbuch Foundation Scholarship
2007–2009	Thomas Gessmann Foundation Scholarship

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Teaching

At UMass Boston (* re-designed course, ** new course, main instructor unless indicated)

2022	Guest Lecturer for CS615 User Interface Design
2022	CS480/CS697 Special Topics: Biomedical Signal and Image Processing (27 students, Instructor rating: 5/5,
	Course rating: 4.93/5)
2022	CS410 Introduction to Software Engineering (62 students, Instructor rating: 4.23/5, Course rating: 4.41/5)
2022	Guest Lecturer for BIOL693 Seminar in Neurobiology
2021	Guest Lecturer for CS615 User Interface Design
2021	CS460 Graphics (20 students, Instructor rating: 5/5, Course rating: 4.94/5)
2021	**CS480/CS697 Special Topics: Biomedical Signal and Image Processing (27 students, Instructor rating:
	4.8/5, Course rating: 4.75/5)
2021	CS410 Introduction to Software Engineering (47 students, Instructor rating: 4.59/5, Course rating: 4.45/5)
2020	CS460 Graphics (28 students, Instructor rating: 4.9/5, Course rating: 4.9/5)
2020	*CS410 Introduction to Software Engineering (27 students, Instructor rating: 4.87/5, Course rating:
	4.73/5)
2019	**CS460 Graphics (24 students, Instructor rating: 4.81/5, Course rating: 4.57/5)
2019	Guest Lecturer for two lectures of the CS187 Science Gateway Seminar

Outside UMass Boston

2021	Guest Lecturer for CSCI2254 Web Application Development at Boston College
2020	Guest Lecturer for CSCI2254 Web Application Development at Boston College
2019	Guest Lecturer for the CMPSC131 Computer Science course at Suffolk University
2018–2019	TEALS Volunteer for AP Computer Science at Cambridge Rindge and Latin School
2016	Technical Assistant for the Deep Learning mini-course at the Harvard IACS Compute Fest
2015	Teaching Fellow for the Harvard CS171 Visualization course
2008	Workshop for Advanced Microcontroller Programming, University of Bratislava, Slovakia
2008	Workshop for Microcontroller Programming at the University of Tbilisi, Georgia (Europe)
2004–2008	Teaching Assistant for the Microcontrollers in EXperiment and LEarning (MEXLE) educational platform, Heil-
	bronn University, Germany

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Mentoring

Graduate Students (PhD)

2022–present	Mahsa Geshvadi, Computer Science, University of Massachusetts Boston
2020-present	Kristin (Yanan) Qi, Computational Sciences, University of Massachusetts Boston

2021 Hayoun Oh, Computer Science, Harvard University (co-mentored)

2020-2021 Aswin Vasudevan, Computer Science, University of Massachusetts Boston 2019-present Loraine Franke, Computer Science, University of Massachusetts Boston 2019-2021 Jesse Freeman, Computer Science, University of Massachusetts Boston

Graduate Students (MS)

2019

2022-present	Kunal Jain, Computer Science, University of Massachusetts Boston
2022-present	Kiran Sandilya, Computer Science, University of Massachusetts Boston
2022-present	Jenna (JieHyun) Kim, Computer Science, University of Massachusetts Boston
2022	Pablo Bendiksen, Computer Science, University of Massachusetts Boston
2021-present	Neha Goyal, Computer Science, University of Massachusetts Boston
2020	Jiali Cheng, Computer Science, Northeastern University
2020	Gianna Yang, Computer Science, University of Massachusetts Boston
2020	Barkha Java, Computer Science, University of Massachusetts Boston

Manish Mourya, Computer Science, University of Massachusetts Boston

2018-2020 Vincent Casser, Computer Science, Harvard University

Suares Tamekue, Intern at Brigham and Women's Hospital (co-mentored) 2010-2011

Undergraduate and Pre-College Students

2022-present Josh Kotler, Computer Science, University of Massachusetts Boston	
2022-present Ryan Zurrin, Computer Science, University of Massachusetts Boston	
2022-present Akshata Tiwari, Pre-college student at Aliso Niguel High School	
2022 Kendrick Kheav, Biochemistry, University of Massachusetts Boston	
Nikol Vladinska, Conputer Science and Honors Thesis, University of Massachusetts Bo	ston

2021-2022 Jay Burkhardt, Computer Science, University of Massachusetts Boston

2021 Isabelle Lara, Biology, University of Massachusetts Boston 2021 Patricia Somera, Biology, University of Massachusetts Boston

2021 Bella Baidak, Computer Science, University of Massachusetts Boston Yahiya Hussain, Computer Science, University of Massachusetts Boston 2019-2021

2019-2021 Nandinii Yeleswarapu, Computer Science and Honors Thesis, University of Massachusetts Boston

Undergraduate and Pre-College Students (continued)

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Daniel Haehn, University of Massachusetts Boston			haehn	danielhaehn.com
2019–2020	Safwa Ali, Engineering, University of Massachusetts Boston			
2019–2020	Huda Irshad, Engineering, University of Massachusetts Boston			
2018–2020	Ian Svetkey, Pre-college student at Harvard University			
2016	Eagon Meng, Computer Science, Harvard U	Jniversity		
2016	Omar Shaikh, (Remote-) Intern at Harvard University			
2015–2017	John Hoffer, Computer Science, Harvard University			
2015	William Zhang, Pre-college student at Harvard University			
2013	Jay Andrew Robinson, Intern at Boston Children's Hospital (co-mentored)			
2013	Emily Seibring, Intern at Boston Children's	Hospital (co-mentored)		

Service and Outreach

Departmental Level

2022-present	Member of the Broadening Participation in Computing Task Force
2022-present	Faculty Advisor for the Computer Science Club
2020-present	Organizer of Events and Maintainer of the Discord Server for CS+IT Students
2020	Member of the Paul English Scholarship Committee
2019-present	Member of the Outreach and Publicity Committee
2019-present	Member of the Student Recruitment Committee
2019–2020	Organizer of bi-weekly social events for IT and CS students

College and University Level

2023	Member of the Research Computing Hiring Committee
2022	Invited Researcher for the UMass President's Office NSF Type 2 Engine proposal for Equitable Health
2022	Member of the Research Computing Hiring Committee
2022	Member of the Data Science Faculty Search Committee
2022	Member of the Joint Discipline & Grievance Committee
2021	Panelist for the Brain Trusts in Al/Robotics/Data Science Initiative from the UMass President's Office
2020-present	Member of the Research Computing Advisory Committee
2020-2021	STEM Educational Excellence (STEM-EdX) Fellow
2020	Member of the Data Science Faculty Search Committee

Professional Activities

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Daniel Haehn, Ur	niversity of Massachusetts Boston		naehn	danielhaehn.com
2022	National Science Foundation Reviewer and Panelist for SBIR Grants			
2022	Program Committee member at the IEEE V	isualization conference		
2022	Topic Editor: Open Source for Open Science	e, Frontiers in Neuroinformat	ics	
2021	Program Committee member at the IEEE Visualization conference			
2021	Faculty Mentor at the MGH Neuroimaging	2021 Virtual Symposium		
2021	Organizer of the Chart Question Answering	g Workshop at CVPR 2021 in o	collaboration	with Harvard, Columbia,
2021	Northwestern, and UMass Amherst National Science Foundation Reviewer and	d Panelist for SBIR Grants		
2020	Program Committee member for short pag	pers at the IEEE Visualization (conference	
2018-present	Reviewer for Manning Publications			
2016-present	Reviewer for Frontiers in Neuroinformati	ics, ISMRM, Neuroinformati	cs, Frontiers	in Neural Circuits, ACM
	SIGCHI, IEEE CVPR, IEEE Visualization / Tr	ansactions on Visualization a	and Compute	er Graphics, IEEE Access,
	MDPI Applied Sciences, Nature Commun	ications Biology, Scientific R	eports, Trans	actions on Pattern Anal-
	ysis and Machine Intelligence, Nature, Co	omputer & Graphics		
2013	Technical Reviewer for Matsuda and Lea: V	VebGL Programming Guide, A	ddison-Wesle	ev

Community Service

2023-present	Volunteer for the Petey Greene Program to tutor incarcerated people
2022	Member of the Principal Search Committee for the Putnam Ave Upper School in Cambridge
2019–2020	Advisor for the AP Data Science Curriculum in Cambridge Public Schools
2018-2019	Head Coach for Cambridge Youth Soccer
2018	Volunteer+Presentation Facilitator at the Cambridge 8th Grade Science & Engineering Showcase
2007-2010	President of the Student Computer Club at Heilbronn University, StuWoNet e.V.
2007-2009	Voluntary Project Lead of RANDI2, a randomization software for clinical trials at the German Cancer Research
	Center (DKFZ), coordinating 15+ developers
1997–1999	Vice-President of The German Computer Freaks, a National Cyber Security Club

My Erdős Number is 3.

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