Michael Beyeler

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ACADEMIC APPOINTMENTS

- **Assistant Professor** · Computer Science (CS) · Psychological & Brain Sciences (PBS) — 2020 – present
  Associate Director · Research Center for Virtual Environments and Behavior (ReCVEB)
  University of California, Santa Barbara (UCSB)
- **Postdoctoral Fellow** · Psychology · Institute for Neuroengineering · eScience Institute — 2016 – 2019
  University of Washington (UW)

EDUCATION

- **PhD in Computer Science** · Specialization in Computational Neuroscience — 2012 – 2016
  University of California, Irvine (UCI)
  Dissertation: Cortical neural network models of visual motion perception for decision-making and reactive navigation, May 2016. Committee: JL Krichmar (co-chair), N Dutt (co-chair), C Fowlkes
- **MS in Biomedical Engineering** · Focus on Bioelectronics — 2009 – 2011
  ETH Zurich, Switzerland
- **BS in Electrical Engineering** · Major in Micro- and Optoelectronics — 2005 – 2009
  ETH Zurich, Switzerland

HONORS & AWARDS

Major Honors & Awards

- NIH K99 Pathway to Independence Award: *National Eye Institute (NEI)* — 2018

Best Paper Award Nominations

- Best Student Paper Nominee: C6, *IEEE International Joint Conference on Neural Networks (IJCNN)* — 2018
- Best Student Paper Nominee: C1, *IEEE Biomedical Circuits & Systems Conference (BioCAS)* — 2010

Fellowships & Selected Travel Awards

- CSHL Computational Neuroscience–Vision summer course, *Helmsley Charitable Trust* — 2018
- Presenter's Travel Award: *Computational & Systems Neuroscience (COSYNE)* — 2017
- Innovation in Neuroengineering & Data Science Postdoctoral Fellowship: *Gordon & Betty Moore Foundation, Alfred P. Sloan Foundation, Washington Research Foundation (WRF)* — 2016
- Chair's Fellowship for Outstanding PhD Applicants: *UCI* — 2012

Other Academic Awards

- Finalist: Postdoc Mentoring Award, *UW* — 2019

MENTEE HONORS & AWARDS

Graduate Students

- Justin Kasowski: Dynamical Neuroscience (DYNS) Fellowship & Summer Stipend, *UCSB* — 2020
- Ezgi I. Yücel: Innovation in Neuroengineering Graduate Fellowship, *WRF* — 2017

Undergraduate Students

- Jon Luntzel: Innovation in Neuroengineering Undergraduate Fellowship, *WRF* — 2019

RESEARCH FUNDING

Total: $257,202

- NIH K99 EY-029329: Virtual prototyping for retinal prosthesis patients. 2018 – present
  M Beyeler, PI. *National Eye Institute (NEI)*. ($244,802)
- Cloud Credits for Research, *Amazon Web Services (AWS)*. ($10,000) 2017
- GPU Seed Grant, *NVIDIA Corporation*. (2 × $1,200) 2016, 2018

ACADEMIC MENTORING

PhD Students

Total: 3, as PI: 2

- Aiwen Xu, PhD Student, CS, *UCSB* 2020 – present
- Justin Kasowski, PhD Student, DYNS, *UCSB* 2019 – present
- Ezgi I. Yücel, PhD Student, Psychology, *UW* 2017 – 2019

MS Students

Total: 1, as PI: 1

- Zuying (Collin) Hu, MS Student, CS, *UCSB* 2020 – present

Undergraduate Students

Total: 8, as PI: 5

- Anvitha Akkaraju, Research Assistant, PBS, *UCSB*, 2020 – present
- Hongzhen (Dylan) Lin, Research Assistant, CS, *UCSB* 2020 – present
- Nathan Wu, Research Assistant, CS, *UCSB* 2020 – present
- Ryan Neydavood, Research Assistant, PBS, *UCSB* 2020 – present
- Rashi Raghulan, Research Assistant, MCDB, *UCSB* 2019 – 2020
- Jon Luntzel, Research Assistant, CS, *UW* 2019
- Saideep Gupta, Research Assistant, Cognitive Sciences, *UCI* 2015 – 2016
- Stanislav Listopad, Research Assistant, Cognitive Sciences, *UCI* 2014 – 2016

ACADEMIC SERVICE

University Committees

- Postdoctoral Representative: Research Advisory Board, *UW* 2017 – 2019

Departmental Committees

- Member: Graduate Admission Committee, *Computer Science, UCSB* 2020 – present
- Member: Public Relations Committee, *Computer Science, UCSB* 2020 – present

Institutional Working Groups

- Member: Neuroinformatics Special Interest Group, *eScience Institute & UWIN, UW* 2017 – 2019
- Member: Reproducibility Working Group, *eScience Institute, UW* 2016 – 2018

Conference Program Committees

- Session Chair: Neuroscience, *Scientific Computing with Python (SciPy)* 2017

Conference Workshops

- Co-organizer: Recent Computational Advances in Neuroengineering, *COSYNE* 2018

Editorial Boards

- Review Editor: *Frontiers in Neurorobotics* 2017 – present

Ad-Hoc Reviewing · Conferences

2020 ACM Conference on Human Factors in Computing Systems (CHI) · 2017, 2018, 2020 Computational & Systems Neuroscience (COSYNE) · 2020 IEEE Conference on Virtual Reality and 3D User Interfaces (VR) · 2015 IEEE International Conference on Intelligent Robots & Systems (IROS) · 2014 IEEE International Conference on Robotics & Automation (ICRA) · 2014 IEEE International Symposium on Circuits & Systems (ISCAS) · 2019, 2020 Medical Image Computing & Computer Assisted Intervention (MICCAI) · 2019 Diversity in STEM (SACNAS) · 2017 Scientific Computing with Python (SciPy)

Ad-Hoc Reviewing · Journals

publons.com/researcher/1188259/michael-beyeler

1x ACM Journal on Emerging Technologies in Computing Systems (JETC) · 6x Frontiers in Neurorobotics · 3x Frontiers in Neuroscience · 1x IEEE Transactions on Cognitive and Developmental Systems (TCDS) · 5x IEEE Transactions on Cybernetics · 8x IEEE Transactions on Neural Networks & Learning Systems (TNNLS) · 1x Journal of Computational Neuroscience (JCNS) · 7x Journal of Neural Engineering · 1x Journal of Neuroscience · 3x Journal of Vision · 5x Neural Networks · 1x Neurocomputing · 2x PLoS Computational Biology · 4x PLoS ONE · 1x Restorative Neurology & Neuroscience · 1x Sensors · 1x Vision Research

PUBLICATIONS

scholar.google.com/citations?user=dK-0kG4AAAAJ

Note that in many areas of computer science, *conferences* are the primary venue for peer-reviewed publications, with selectivity and impact often exceeding that of journals (Chen & Konstan, 2010). The opposite is true in neuroscience.
Legend: [•] equal contribution, [ⓘ] invited publication, [®] review article

Peer-Reviewed Conference Publications

C8 **M Beyeler**, GM Boynton, I Fine, A Rokem (2019). Model-based recommendations for optimal surgical placement of epiretinal implants. *Medical Image Computing & Computer Assisted Intervention (MICCAI)*, Shenzhen, China.

C7 **M Beyeler** (2019). Biophysical model of axonal stimulation in epiretinal visual prostheses. *IEEE EMBS Conference on Neural Engineering (NER)*, San Francisco, CA.

C6 T-S Chou[•], HJ Kashyap[•], J Xing, S Listopad, EL Rounds, **M Beyeler**, N Dutt, JL Krichmar (2018). CARLsim 4: An open source library for large scale, biologically detailed spiking neural network simulations using heterogeneous clusters. *IEEE International Joint Conference on Neural Networks (IJCNN)*, Rio de Janeiro, Brazil. **Best Student Paper Nominee.** [Code]

C5 **M Beyeler**, GM Boynton, I Fine, A Rokem (2017). pulse2percept: A Python-based simulation framework for bionic vision. *Scientific Computing with Python (SciPy)*, p.81–88. [Code]

C4 **M Beyeler**[•], KD Carlson[•], T-S Chou[•], N Dutt, JL Krichmar (2015). CARLsim 3: A user-friendly and highly optimized library for the creation of neurobiologically detailed spiking neural networks. *IEEE International Joint Conference on Neural Networks (IJCNN)*, Killarney, Ireland. [Code]

C3 KD Carlson, **M Beyeler**, N Dutt, JL Krichmar (2014). GPGPU accelerated simulation and parameter tuning for neuromorphic applications[ⓘ]. *Asia and South Pacific Design Automation Conference (ASP-DAC)*, Suntec, Singapore.

C2 **M Beyeler**, F Mirus, A Verl (2014). Vision-based robust road lane detection in urban environments. *IEEE International Conference on Robotics & Automation (ICRA)*, Hong Kong, China.

C1 **M Beyeler**[•], F Stefanini[•], H Proske, CG Galizia, E Chicca (2010). Exploring olfactory sensory networks: simulations and hardware emulation. *IEEE Biomedical Circuits & Systems Conference (BioCAS)*, Paphos, Cyprus. **Best Student Paper Nominee.**

Peer-Reviewed Journal Articles

J9 BW Brunton, **M Beyeler** (2019). Data-driven models in human neuroscience and neuroengineering[ⓘ®]. *Current Opinion in Neurobiology* 58: 21–29.

J8 **M Beyeler**, D Nanduri, JD Weiland, A Rokem, GM Boynton, I Fine (2019). A model of ganglion axon pathways accounts for percepts elicited by retinal implants. *Scientific Reports* 9(1):9199. [Code] [Data]

J7 **M Beyeler** (2019). Commentary: Detailed visual cortical responses generated by retinal sheet transplants in rats with severe retinal degeneration. *Frontiers in Neuroscience* 13: 471.

J6 **M Beyeler**, EL Rounds, KD Carlson, N Dutt, JL Krichmar (2019). Neural correlates of sparse coding and dimensionality reduction. *PLOS Computational Biology* 15(6):e1006908.

J5 **M Beyeler**, A Rokem, GM Boynton, I Fine (2017). Learning to see again: Biological constraints on cortical plasticity and the implications for sight restoration technologies. *Journal of Neural Engineering* 14(5). **Featured cover article.**

J4 **M Beyeler**, N Dutt, JL Krichmar (2016). 3D visual response properties of MSTd emerge from an efficient, sparse population code. *Journal of Neuroscience* 36(32): 8399–8415.

J3 **M Beyeler**, N Oros, N Dutt, JL Krichmar (2015). A GPU-accelerated cortical neural network model for visually guided robot navigation. *Neural Networks* 72: 75–87.

J2 **M Beyeler**, M Richert, ND Dutt, JL Krichmar (2014). Efficient spiking neural network model of pattern motion selectivity in visual cortex. *Neuroinformatics*, 1–20.

J1 **M Beyeler**, ND Dutt, JL Krichmar (2013). Categorization and decision-making in a neurobiologically plausible spiking network using a STDP-like learning rule. *Neural Networks* 48C: 109–124.

US Patent Applications

P2 R Appuswamy, **M Beyeler**, P Datta, MD Flickner, DS Modha (2018). Long short-term memory (LSTM) on spiking neuromorphic hardware. US Patent App 15/434,672.

P1 **M Beyeler**, ND Dutt, JL Krichmar (2017). Sparse and efficient neuromorphic population coding. US Patent App 15/417,626.

Contributed Abstracts & Presentations

A34 **M Beyeler**, GM Boynton, I Fine, A Rokem (2020). Interpretable machine-learning predictions of perceptual sensitivity for retinal prostheses. *Association for Research in Vision & Ophthalmology (ARVO) '20*, Baltimore, MD. (poster, **Abstract of Distinction**; canceled, COVID-19)

A33 **M Beyeler**, GM Boynton, I Fine, A Rokem (2019). Model-based recommendations for optimal surgical placement of epiretinal implants. *The Eye & the Chip '19*, Dearborn, MI.

A32 K Chen, **M Beyeler**, JL Krichmar (2019). MSTd-like response properties emerge from applying STDP-H to a SNN model of MT. *SfN'19*, Chicago, IL. (poster)

A31 R Esquenazi, K Meier, **M Beyeler**, GM Boynton, I Fine (2019). Learning to see again: perceptual learning for sight restoration technologies. *OSA Fall Vision '19*, Washington, DC. (poster)

A30 **M Beyeler**, A Rokem, GM Boynton, I Fine (2019). Interpretable machine-learning predictions of perceptual sensitivity in retinal implant users. *Northwest Data Science Summit*, Seattle, WA. (oral)

A29 **M Beyeler** (2019). Biophysical model of axonal stimulation in epiretinal visual prostheses. *NER'19*, San Francisco, CA. (poster)

A28 **M Beyeler**, EL Rounds, KD Carlson, N Dutt, JL Krichmar (2018). Sparse coding and dimensionality reduction in the brain. *OCNS'18*, Seattle, WA. (poster)

A27 T-S Chou, HJ Kashyap, J Xing, S Listopad, EL Rounds, **M Beyeler**, N Dutt, JL Krichmar (2018). CARLsim 4: An open source library for large scale, biologically detailed spiking neural network simulation using heterogeneous clusters. *OCNS'18*, Seattle, WA. (oral)

A26 **M Beyeler**, D Nanduri, JD Weiland, A Rokem, GM Boynton, I Fine (2018). Optimizing stimulation protocols for prosthetic vision based on retinal anatomy. *VSS'18*, St. Pete's Beach, FL. (poster)

A25 **M Beyeler**, EI Yucel, A Rokem, GM Boynton, I Fine (2018). Optimizing stimulation protocols for prosthetic vision based on retinal anatomy. *COSYNE'18*, Breckenridge, CO. (oral)

A24 **M Beyeler**, A Rokem, GM Boynton, I Fine (2018). Modeling the perceptual experience of retinal prosthesis patients. *UWIN NCEC'18*, Seattle, WA. (oral)

A23 EL Rounds, **M Beyeler**, KD Carlson, N Dutt, JL Krichmar (2017). Sparse coding and dimensionality reduction in cortex. *SfN'17*, Washington, DC. (poster)

A22 **M Beyeler**, A Rokem, GM Boynton, I Fine (2017). Improving retinal prostheses using the "virtual patient". *OSA Fall Vision '17*, Washington, DC. (oral)

A21 HJ Kashyap, T-S Chou, EL Rounds, S Listopad, **M Beyeler**, N Dutt, JL Krichmar (2017). CARLsim4: A C++ library for the design, simulation, and parameter tuning of biologically detailed spiking neural networks on high performance clusters. *SfN'17*, Washington, DC. (poster)

A20 **M Beyeler**, A Rokem, GM Boynton, I Fine (2017). Reverse-engineering optimized stimulation protocols in epiretinal prosthesis patients. *The Eye & the Chip '17*, Detroit, MI. (oral, **Platform Presentation**)

A19 GM Boynton, A Rokem, **M Beyeler**, J Dorn, NC Sinclair, MN Shivdasani, MA Petoe, R Hornig, I Fine (2017). Efficient and scalable measurements of sensitivity for high resolution electrode arrays. *The Eye & the Chip '17*, Detroit, MI. (poster, **Best Poster Award**)

A18 **M Beyeler**, N Dutt, JL Krichmar (2017). A sparse coding model of MST can account for human heading perception in the presence of eye movements. *ECVP'17*, Berlin, Germany. (poster)

A17 **M Beyeler**, GM Boynton, I Fine, A Rokem (2017). pulse2percept: A Python-based simulation framework for bionic vision. *SciPy'17*, Austin, TX. (oral, **youtube.com/watch?v=KxsNAa-P2X4**)

A16 **M Beyeler**, A Rokem, GM Boynton, I Fine (2017). Modeling the perceptual experience of retinal prosthesis patients. *VSS'17*, St. Pete's Beach, FL. (oral)

A15 **M Beyeler**, A Rokem, GM Boynton, I Fine (2017). Modeling the perceptual experience of retinal prosthesis patients. *COSYNE'17*, Salt Lake City, UT. (poster)

A14 **M Beyeler**, M Richert, N Oros, N Dutt, JL Krichmar (2016). GPU-accelerated real-time simulation of information processing in early visual cortex. *UWIN NCEC'16*, Seattle, WA. (poster)

A13 **M Beyeler**, N Dutt, JL Krichmar (2016). Efficient coding of optic flow can account for MSTd visual response properties. *SfN'16*, San Diego, CA. (poster)

A12 **M Beyeler**, M Richert, N Oros, N Dutt, JL Krichmar (2016). GPU-accelerated real-time simulation of information processing in early visual cortex. *The Eye & the Chip '16*, Dearborn, MI. (poster)

A11 **M Beyeler**, M Richert, N Oros, N Dutt, JL Krichmar (2016). A cortical neural network model of visual motion perception for decision-making and navigation. *JSNC'16*, Los Angeles, CA. (poster)

A10 **M Beyeler**, M Richert, N Oros, N Dutt, JL Krichmar (2016). A cortical neural network model of visual motion perception for decision-making and navigation. *COSYNE'16*, Salt Lake City, UT. (poster)

A9 **M Beyeler**, KD Carlson, T-S Chou, N Dutt, JL Krichmar (2015). An optimized library for the design, simulation, and parameter tuning of biologically detailed spiking neural networks. *SfN'15*, Chicago, IL. (poster)

A8 **M Beyeler**, KD Carlson, T-S Chou, N Dutt, JL Krichmar (2015). CARLsim 3: A user-friendly and highly optimized library for the creation of neurobiologically detailed spiking neural networks. *IJCNN'15*, Killarney, Ireland. (oral)

A7 **M Beyeler**, KD Carlson, T-S Chou, N Dutt, JL Krichmar (2015). CARLsim 3: A user-friendly and highly optimized library for the creation of neurobiologically detailed spiking neural networks. *JSNC'15*, Los Angeles, CA. (poster)

A6 **M Beyeler**, M Richert, N Oros, N Dutt, JL Krichmar (2014). A cortical spiking neural network model for visually guided robot navigation. Neurobiologically Inspired Robotics workshop, *ICRA'14*, Hong Kong, China. (oral, **Best Student Talk Award**).

A5 **M Beyeler**, F Mirus, A Verl (2014). Vision-based robust road lane detection in urban environments. *ICRA'14*, Hong Kong, China. (oral)

A4 **M Beyeler**, M Richert, JM Nageswaran, ND Dutt, JL Krichmar (2014). Large-scale spiking neural network model of visual motion processing. *JSNC'14*, Irvine, CA. (poster)

A3 **M Beyeler**, M Richert, JM Nageswaran, ND Dutt, JL Krichmar (2014). Large-scale spiking neural network model of visual motion processing. *Dynamics of Multifunction Brain Networks MURI Winter School*, San Diego, CA. (oral)

A2 **M Beyeler**, M Richert, JM Nageswaran, ND Dutt, JL Krichmar (2013). Large-scale spiking neural network model of visual motion processing. *SfN'13*, San Diego, CA. (poster)

A1 **M Beyeler**, ND Dutt, JL Krichmar (2013). Spiking neural network model of visual pattern recognition and decision-making using a stochastic STDP learning rule. *JSNC'13*, Pasadena, CA. (poster)

INVITED TALKS & SEMINARS

Scheduled

T15 17th Annual World Congress of the Society for Brain Mapping & Therapeutics, *Los Angeles, CA* — Mar 2021

Past

T14 14th Conference on Learning & Memory: Cellular and Systemic Views (canceled, COVID-19) *Leibniz Institut für Neurobiologie, Magdeburg, Germany* — Mar 2020
T13 Department of Cognitive Sciences, *University of California, Irvine, CA* — Apr 2019
T12 Department of Computer Science, *Duke University, Durham, NC* — Mar 2019
T11 Department of Computer Science, *University of California, Santa Barbara, CA* — Jan 2019
T10 COSYNE Workshop on Recent Advances in Neuroengineering, *Breckenridge, CO* — Mar 2018
T9 Center for Applied and Translational Sensory Science (CATSS), *University of Minnesota, Minneapolis, MN* — Feb 2018
T8 Eye & Chip World Congress on Artificial Vision (plenary), *Detroit Institute of Ophthalmology* — Sep 2017
T7 Cluster of Excellence in Cognitive Interaction Technology (CITEC), *Bielefeld University, Germany* — Aug 2017
T6 Center for Perceptual Systems, *University of Texas, Austin, TX* — Jul 2017
T5 UW Medicine Eye Institute, *University of Washington, Seattle, WA* — Feb 2017
T4 Second Sight Medical Products Inc., *Sylmar, CA* — Nov 2016
T3 Department of Psychology, *University of Washington, Seattle, WA* — Dec 2015
T2 IBM Research, *San Jose, CA* — Aug 2015
T1 Qualcomm Technologies Incorporated, *San Diego, CA* — Nov 2014

TEACHING ACTIVITIES

Undergraduate Courses

UC1 PSYCH-130: Sensation & Perception · Vision, *UCSB* — Fall 2020

Graduate Courses

GC1 CS-291I: Special Topics on Visual Computing and Interaction · Bionic Vision, *UCSB* — Winter 2020

Selected Guest Lectures

GL5 PSYCH-508: Core Concepts in Perception, grad, *UW* — Spring 2019
GL4 BIOEN-460: Neural Engineering, undergrad, *UW* — Winter 2019
GL3 NRSC-490: Advanced Topics in Neuroscience, undergrad, *U Puget Sound* — Sprint 2018
GL2 CS-171: Introduction to Artificial Intelligence, undergrad, *UCI* — Winter 2015
GL1 PSYCH-268A: Computational Neuroscience, undergrad, *UCI* — Fall 2015

Tutorials at Conferences

TC1 Image processing and computer vision with scikit-image, *Neurohackademy* — 2018

Software Carpentry

SC2 Instructor: Unix shell, version control with git, Python/R, *UW eScience Institute* — 2017 – 2019
SC1 Attendee: Instructor training workshop, *UW eScience Institute* — 2017

Teaching Assistant

TA3 CS-143A: Principles of Operating Systems, 186 students, undergrad, *UCI* — Spring 2015
TA2 CS-171: Introduction to Artificial Intelligence, 81 students, undergrad, *UCI* — Winter 2015
TA1 Networks & Circuits I & II, undergrad, *ETH Zurich, Switzerland* — Fall 2009, Spring 2010

Programming Books

PB5 M Gevorgyan, A Mamikonyan, **M Beyeler** (2020). OpenCV4 with Python Blueprints, Second Edition. *Packt Publishing Ltd.*, Birmingham, UK, 366 pages, ISBN 978-178980181-1.

PB4 A Sharma, VR Shrimali, **M Beyeler** (2019). Machine Learning for OpenCV 4, Second Edition. *Packt Publishing Ltd.*, Birmingham, UK, 420 pages, ISBN 978-178953630-0.

PB3 **M Beyeler** (2017). Machine Learning for OpenCV. *Packt Publishing Ltd.*, Birmingham, UK, 382 pages, ISBN 978-178398028-4. **Also available in Korean, Japanese, and as a video course.** [Code]

PB2 J Howse, P Joshi, **M Beyeler** (2016). OpenCV: Computer Vision Projects with Python. *Packt Publishing Ltd.*, Birmingham, UK, 558 pages, ISBN 978-178712549-0.

PB1 **M Beyeler** (2015). OpenCV with Python Blueprints. *Packt Publishing Ltd.*, Birmingham, UK, 230 pages, ISBN 978-178528269-0. [Code]

SCIENCE COMMUNICATION & PUBLIC OUTREACH

Public Lectures

PL1 UCSB Open House (formerly 'Spring Insight'), virtual lecture, *UCSB* 2020

Media Coverage

MC2 Reverse engineering the brain: "fooling" the mind to see, *Convergence Magazine, UCSB* 2020

MC1 Restoring vision with bionic eyes: no longer science fiction, *PCMag* 2019

Panels

PA1 An Evening with Neuroscience, *UW* 2019

Documentary & Video Appearances

VA1 Made with Android, *Google Developers, Mountain View, CA* 2015

Community Involvement & Public Outreach

CI6 Competition judge: SBHacks VI Hackathon, *UCSB* 2020

CI5 Competition judge: US Congressional App Challenge, *Washington, DC* 2019

CI4 Outreach & fundraising: Lighthouse Foundation for the Blind, *Seattle, WA* 2018

CI3 Neuronline community leader, *Society for Neuroscience (SfN)* 2016 – 2017

CI2 Student volunteer, *IEEE Robotics & Automation Society (RAS)* 2014 – 2016

CI1 Lab tour leader: Mathobotix "Bytes and Bots" K-12 Summer Camp, *UCI* 2013, 2014

PROFESSIONAL ASSOCIATIONS

- Member: *IEEE Engineering in Medicine & Biology Society (EMBS)* 2019 – present
- Member: *Association for Computing Machinery (ACM)* 2019 – present
- Member: *Organization for Computational Neurosciences (OCNS)* 2018 – present
- Member: *Association for Research in Vision & Ophthalmology (ARVO)* 2018 – present
- Member: *Vision Sciences Society (VSS)* 2017 – present
- Member: *Society for Neuroscience (SfN)* 2013 – present

REJECTIONS & FAILURES

Inspired by: Melanie Stefan (2010), A CV of Failures. *Nature* 468(467).
Legend: TT tenure-track, PD postdoc, G grad

Academic Positions *Success rate, TT: 3 % (n=31), PD: 100 % (n=2), G: 50 % (n=2)*

- Tenure-track positions (R1): 17 no answers, 12 explicit rejections, 1 rejection after interview 2019
- EPFL Neuroscience Graduate program: rejected 2013

Professional *Success rate, TT: 0 % (n=1)*

- OCNS program committee: invited to apply 2019

Grants & Major Awards *Success rate, TT: 0 % (n=3), PD: 50 % (n=2)*

- Chan Zuckerberg Institute (CZI) Essential Open Source Software: not awarded, role: PI 2020
- National Science Foundation (NSF) NeuroNex: invited for full proposal, role: co-PI 2020
- Academic Data Science Alliance (ADSA) seed grant: finalist, role: co-PI 2019
- Burroughs Wellcome Award at the Scientific Interface (CASI): invited for full proposal, role: PI 2018

Fellowships & Travel Awards *Success rate, TT: 100 % (n=1), PD: 100 % (n=4), G: 44 % (n=9)*

- IJCNN Travel Award: not awarded 2015
- NVIDIA Graduate Fellowship: not awarded 2013, 2014, 2015
- Microsoft Research Fellowship: not awarded 2013

Workshops *Success rate, PD: 50 % (n=2)*

- VSS workshop proposal: rejected 2019

Scientific Peer Review

- J8, *Sci Rep*: desk-rejected from 5 journals 2018
- J7, *Front Neurosci*: desk-rejected from 1 journal 2018
- J6, *PLOS Comp Bio*: desk-rejected from 3 journals 2017
- COSYNE abstract: rejected 2015, 2018