Ariel Rokem

Department of Psychology
The University of Washington
119A Guthrie Hall
Seattle, WA 98105

Phone: +1-510-3876264
Email: arokem@gmail.com
Homepage: www.arokem.org
ORCID: 0000-0003-0679-1985

Work Experience

2021 - present	Research Associate Professor
1	University of Washington Department of Psychology
2020 - 2021	Research Assistant Professor
	University of Washington Department of Psychology
2015-2020	Senior Data Scientist
	University of Washington eScience Institute
2011-2015	Postdoctoral Researcher
	Stanford University
2010-2011	Postdoctoral Researcher
	University of California, Berkeley
2002-2003	Research Student
	Humboldt-Universität zu Berlin

Education

2010 **Ph.D.** Neuroscience, University of California, Berkeley 2005 **M.A.** (*Summa cum Laude*) Cognitive Psychology, Hebrew University of Jerusalem 2002 **B.Sc.** (*Cum Laude*) Biology and Psychology, Hebrew University of Jerusalem

Peer-reviewed publications

Google Scholar, total citations: 7,656, h-index: 42

- 88. Kruper, J., Richie-Halford, A., Benson, N. C., Caffarra, S., Owen, J., Wu, Y., Egan, C., Lee, A. Y., Lee, C. S., Yeatman, J. D., **Rokem, A**, and UK Biobank Eye and Vision Consortium (2024). Convolutional neural network-based classification of glaucoma using optic radiation tissue properties. *Communications Medicine*, 4(1):72
- 87. Pogoncheff, G., Hu, Z., **Rokem, A**, and Beyeler, M. (in press). Explainable machine learning predictions of perceptual sensitivity for retinal prostheses. *Journal of Neural Engineering*
- 86. Poldrack, R. A., Markiewicz, C. J., Appelhoff, S., Ashar, Y. K., Auer, T., Baillet, S., Bansal, S., Beltrachini, L., Benar, C. G., Bertazzoli, G., Bhogawar, S., Blair, R. W., Bortoletto, M., Boudreau, M., Brooks, T. L., Calhoun, V. D., Castelli, F. M., Clement, P., Cohen, A. L., Cohen-Adad, J., D'Ambrosio, S., de Hollander, G., de la Iglesia-Vayá, M., de la Vega, A., Delorme, A., Devinsky, O., Draschkow, D., Duff, E. P., DuPre, E., Earl, E., Esteban, O., Feingold, F. W., Flandin, G., Galassi, A., Gallitto, G., Ganz, M., Gau, R., Gholam, J., Ghosh, S. S., Giacomel, A., Gillman, A. G.,

- Gleeson, P., Gramfort, A., Guay, S., Guidali, G., Halchenko, Y. O., Handwerker, D. A., Hardcastle, N., Herholz, P., Hermes, D., Honey, C. J., Innis, R. B., Ioanas, H.-I., Jahn, A., Karakuzu, A., Keator, D. B., Kiar, G., Kincses, B., Laird, A. R., Lau, J. C., Lazari, A., Legarreta, J. H., Li, A., Li, X., Love, B. C., Lu, H., Maumet, C., Mazzamuto, G., Meisler, S. L., Mikkelsen, M., Mutsaerts, H., Nichols, T. E., Nikolaidis, A., Nilsonne, G., Niso, G., Norgaard, M., Okell, T. W., Oostenveld, R., Ort, E., Park, P. J., Pawlik, M., Pernet, C. R., Pestilli, F., Petr, J., Phillips, C., Poline, J.-B., Pollonini, L., Raamana, P. R., Ritter, P., Rizzo, G., Robbins, K. A., Rockhill, A. P., Rogers, C., Rokem, A, Rorden, C., Routier, A., Saborit-Torres, J. M., Salo, T., Schirner, M., Smith, R. E., Spisak, T., Sprenger, J., Swann, N. C., Szinte, M., Takerkart, S., Thirion, B., Thomas, A. G., Torabian, S., Varoquaux, G., Voytek, B., Welzel, J., Wilson, M., Yarkoni, T., and Gorgolewski, K. J. (in press). The past, present, and future of the brain imaging data structure (BIDS). *Imaging Neuroscience*
- 85. Roy, E., Richie-Halford, A., Kruper, J., Narayan, M., Bloom, D., Nedelec, P., Rauschecker, A., Brown, T. T., Jernigan, T. L., McCandliss, B. D., **Rokem, A**, and Yeatman, J. (in press). White matter and literacy: a dynamic system in flux. *Developmental Cognitive Neuroscience*
- 84. Cieslak, M., Cook, P. A., Tapera, T. M., Radhakrishnan, H., Elliott, M., Roalf, D. R., Oathes, D. J., Bassett, D. S., Tisdall, M. D., **Rokem, A**, Grafton, S. T., and Satterthwaite, T. (in press). Diffusion MRI head motion correction methods are highly accurate but impacted by denoising and sampling scheme. *Human Brain Mapping*
- 83. Caffarra, S., Kanopka, K., Kruper, J., Richie-Halford, A., **Rokem, A**, and Yeatman, J. D. (in press). Development of the alpha rhythm is linked to visual white matter pathways and visual detection performance. *J Neuroscience*
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- 74. Graham, S., **Rokem, A**, , and Lambers, J. H. R. (2022). forestexplorR: an R package for the exploration and analysis of stem-mapped forest stand data. *Ecography*, 2022(10):e06223
- 73. Fadnavis, S., Endres, S., Wen, Q., Wu, Y.-C., Cheng, H., Koudoro, S., Rane, S., **Rokem, A**, and Garyfallidis, E. (2021). Bifurcated topological optimization for IVIM. *Frontiers in Neuroscience*, 15
- 72. Hayot-Sasson, V., Glatard, T., and **Rokem, A** (2021). The benefits of prefetching for large-scale cloud-based neuroimaging analysis workflows. In 2021 IEEE Workshop on Workflows in Support of Large-Scale Science (WORKS), pages 42–49
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- 68. Caffarra, S., Joo, S. J., Bloom, D., Kruper, J., **Rokem, A**, and Yeatman, J. D. (2021). Development of the visual white matter pathways mediates development of electrophysiological responses in visual cortex. *Hum. Brain Mapp.*, 42(17):5785–5797
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- 22. Zheng, C. Y., Pestilli, F., and **Rokem, A.** (2014). Deconvolution of High Dimensional Mixtures via Boosting, with Application to Diffusion-Weighted MRI of Human Brain. *Adv Neural Inf Process Syst*, 27:2699–2707
- 21. Yeatman, J. D., Weiner, K. S., Pestilli, F., **Rokem, A.**, Mezer, A., and Wandell, B. A. (2014). The vertical occipital fasciculus: a century of controversy resolved by in vivo measurements. *Proc. Natl. Acad. Sci. U.S.A.*, 111(48):E5214–5223
- 20. Pestilli, F., Yeatman, J. D., **Rokem, A.**, Kay, K. N., and Wandell, B. A. (2014). Evaluation and statistical inference for human connectomes. *Nat. Methods*, 11(10):1058–1063
- 19. Garyfallidis, E., Brett, M., Amirbekian, B., **Rokem, A.**, van der Walt, S., Descoteaux, M., and Nimmo-Smith, I. (2014). Dipy, a library for the analysis of diffusion MRI data. *Front Neuroinform*, 8:8
- 18. McDevitt, E. A., **Rokem, A.**, Silver, M. A., and Mednick, S. C. (2014). Sex differences in sleep-dependent perceptual learning. *Vision Res.*, 99:172–179
- 17. Kay, K. N., **Rokem, A.**, Winawer, J., Dougherty, R. F., and Wandell, B. A. (2013a). GLMdenoise: a fast, automated technique for denoising task-based fMRI data. *Front Neurosci*, 7:247
- 16. Yoon, J. H., Sheremata, S. L., **Rokem, A.**, and Silver, M. A. (2013). Windows to the soul: vision science as a tool for studying biological mechanisms of information processing deficits in schizophrenia. *Front Psychol*, 4:681

- 15. **Rokem, A.** and Silver, M. A. (2013). The benefits of cholinergic enhancement during perceptual learning are long-lasting. *Front Comput Neurosci*, 7:66
- 14. Kay, K. N., Winawer, J., **Rokem, A.**, Mezer, A., and Wandell, B. A. (2013b). A two-stage cascade model of BOLD responses in human visual cortex. *PLoS Comput. Biol.*, 9(5):e1003079
- 13. Kosovicheva, A. A., Sheremata, S. L., **Rokem, A.**, Landau, A. N., and Silver, M. A. (2012). Cholinergic enhancement reduces orientation-specific surround suppression but not visual crowding. *Front Behav Neurosci*, 6:61
- 12. **Rokem, A.**, Landau, A. N., Prinzmetal, W., Wallace, D. L., Silver, M. A., and D'Esposito, M. (2012). Modulation of inhibition of return by the dopamine D2 receptor agonist bromocriptine depends on individual DAT1 genotype. *Cereb. Cortex*, 22(5):1133–1138
- 11. **Rokem, A.**, Yoon, J. H., Ooms, R. E., Maddock, R. J., Minzenberg, M. J., and Silver, M. A. (2011). Broader visual orientation tuning in patients with schizophrenia. *Front Hum Neurosci*, 5:127
- 10. **Rokem, A.** and Silver, M. A. (2010). Cholinergic enhancement augments magnitude and specificity of visual perceptual learning in healthy humans. *Curr. Biol.*, 20(19):1723–1728
- 9. **Rokem, A.**, Landau, A. N., Garg, D., Prinzmetal, W., and Silver, M. A. (2010). Cholinergic enhancement increases the effects of voluntary attention but does not affect involuntary attention. *Neuropsychopharmacology*, 35(13):2538–2544
- 8. Yoon, J. H., Maddock, R. J., **Rokem, A.**, Silver, M. A., Minzenberg, M. J., Ragland, J. D., and Carter, C. S. (2010). GABA concentration is reduced in visual cortex in schizophrenia and correlates with orientation-specific surround suppression. *J. Neurosci.*, 30(10):3777–3781
- 7. Eyherabide, H. G., **Rokem, A.**, Herz, A. V., and Samengo, I. (2009). Bursts generate a non-reducible spike-pattern code. *Front Neurosci*, 3(1):8–14
- 6. **Rokem, A.**, Trumpis, M., and Pèrez, F. (2009). Nitime: time-series analysis for neuroimaging data. In Varoquaux, G., van der Walt, S., and Millman, J., editors, *Proceedings of the 8th Python in Science Conference (SciPy)*
- 5. Yoon, J. H., **Rokem, A.**, Silver, M. A., Minzenberg, M. J., Ursu, S., Ragland, J. D., and Carter, C. S. (2009). Diminished orientation-specific surround suppression of visual processing in schizophrenia. *Schizophr Bull*, 35(6):1078–1084
- 4. **Rokem, A.** and Silver, M. A. (2009). A model of encoding and decoding in V1 and MT accounts for motion perception anisotropies in the human visual system. *Brain Res.*, 1299:3–16
- 3. **Rokem, A.** and Ahissar, M. (2009). Interactions of cognitive and auditory abilities in congenitally blind individuals. *Neuropsychologia*, 47(3):843–848
- 2. Eyherabide, H. G., **Rokem, A.**, Herz, A. V., and Samengo, I. (2008). Burst firing is a neural code in an insect auditory system. *Front Comput Neurosci*, 2:3
- 1. **Rokem, A.**, Watzl, S., Gollisch, T., Stemmler, M., Herz, A. V., and Samengo, I. (2006). Spike-timing precision underlies the coding efficiency of auditory receptor neurons. *J. Neurophysiol.*, 95(4):2541–2552

^{*} indicates equal contribution

Books and book chapters

- 4. **Rokem, A** and Yarkoni, T. (2023). *Neuroimaging and Data Science: An Introduction*. Princeton University Press, Princeton, NJ. http://neuroimaging-data-science.org/
- 3. **Rokem, A.** (2018). Reproducibility in human neuroimaging research: A practical example from the analysis of diffusion mri. In Kitzes, J., Turek, D., and Deniz, F., editors, *The Practice of Reproducible Research: Case Studies and Lessons from the Data-Intensive Sciences*. University of California Press, Oakland, CA
- 2. **Rokem, A.** and Chirigati, F. (2018). Glossary of reproducible research. In Kitzes, J., Turek, D., and Deniz, F., editors, *The Practice of Reproducible Research: Case Studies and Lessons from the Data-Intensive Sciences*. University of California Press, Oakland, CA
- 1. **Rokem, A.**, Marwick, B., and Staneva, V. (2018). Assessing reproducibility. In Kitzes, J., Turek, D., and Deniz, F., editors, *The Practice of Reproducible Research: Case Studies and Lessons from the Data-Intensive Sciences*. University of California Press, Oakland, CA

White papers and work in progress

- 1. **Rokem, A*** and Benson, N. C.* (2024). Hands-on neuroinformatics education at the crossroads of online and in-person: lessons learned from neurohackademy. *under review*
- Roy, E., Van Rinsveld, A., Nedelec, P., Richie-Halford, A., Rauschecker, A. M., Sugrue, L. P., Rokem, A, McCandliss, B. D., and Yeatman, J. D. (2023). Educational environment and white matter development in early adolescence. *bioRxiv*. https://www.biorxiv.org/content/10. 1101/2023.10.10.561784v1
- 3. **Rokem, A**, Qiao, J., Yeatman, J. D., and Richie-Halford, A. (2023). Incremental improvements in tractometry-based brain-age modeling with deep learning. https://www.biorxiv.org/content/10.1101/2023.03.02.530885v1
- 4. **Rokem, A**, Dichter, B., Holdgraf, C., and Ghosh, S. S. (2021). Pan-neuro: interactive computing at scale with BRAIN datasets. https://osf.io/mwh2b/

* indicates equal contribution

Online courses

- 1. Rokem, A. (2018). DataCamp course: Convolutional neural networks for image processing. https://www.datacamp.com/courses/convolutional-neural-networks-for-image-processing
- 2. Rokem, A. (2019). DataCamp course: Introduction to Matplotlib. https://www.datacamp.com/courses/introduction-to-matplotlib

Honors and awards

2023

2022 - 2024

McGill University Neuro / Irv and Helga Cooper Foundation Open Science Prize for international projects, received as a member of the Brain Imaging Data Structure steering group (\$80,000 CAD). Elected member of the Brain Imaging Data Structure (BIDS) steering group.

- 2012 2015 NIH Postdoctoral National Research Service Award.
- 2009 2010 NIH Predoctoral National Research Service Award.

Funded research

- NSF Workshop: Towards an Open Source Model for Data and Metadata Standards (role: PI) \$ 99,953 NIH R01: Community-supported open-source software for computational neuroanatomy (role: sub-contract PI, PI: Eleftherios Garyfallidis), \$ 2,726,578
- NIH BRAIN Initiative RF1: A data science toolbox for analysis of Human Connectome Project diffusion MRI (role: PI), \$707,444.
- 2017-2027 NIH/National Institute for Mental Health, R25: Summer Institute in Neuroimaging and Data Science (role: PI), \$2,003,598
- NIH U19: Adult Changes in Thought (ACT) Research Program (role: Senior Personnel, PI: Eric Larson and Paul Crane), \$23,352,014
- 2022-2024 Chan Zuckerberg Initiative Essential Open Source Software: Diffusion Imaging in Python (role: co-Investigator; PI: Serge Koudoro), \$165,407
- NIH R01 A community-driven development of the brain imaging data standard (BIDS) to describe macroscopic brain connections (role: Senior Personnel; PI: Franco Pestilli) \$352,342.
- NIH R01 NIPreps: integrating neuroimaging preprocessing workflows across modalities, populations, and species (role: multi-PI) \$1,630,690
- NIH R01: Aging eyes and aging brains in studying Alzheimer's disease: modern ophthalmic data collection in the Adult Changes in Thought (ACT) study (role: Senior Personnel; PI: Cecilia Lee). \$17,197,690

Completed funded research

- NSF BDHUBS: Collaborative Proposal: West: Accelerating the Big Data Innovation Ecosystem (role: Senior Personnel, PI: Ed Lazowska), \$201,822.
- NSF HDR: I-DIRSE-FW: Accelerating the Engineering Design and Manufacturing Life-Cycle with Data Science (role: co-PI; PI: Magda Balazinska), \$2,320,979.
- The Bill & Melinda Gates Foundation: Advance Data Analytic Support for Strategic PNW Partners by eScience Institute (role: co-PI, PI: Bill Howe), \$754,601.
- 2021-2022 UW Azure Cloud Computing Credits (role: PI), \$43,000
- NSF AccelNet Exchange Grant through the International Network for Biologically-Inspired Computing \$10,000.
- NIH BRAIN Initiative U19: Computational and Circuit Mechanisms Underlying Rapid Learning. (role: Data Science Core Senior Personnel, PI: Beth Buffalo), \$14,439,172.
- Google Cloud Research Credits (role: PI), \$5,000
- Amazon Web Services Cloud Computing Credits (role: PI), \$5,000
- Google Cloud Research Credits (role: PI), \$5,000
- 2021 UW Azure Cloud Computing Credits (role: PI), \$20,000
- Google Cloud Research Credits (role: PI), \$5,000
- 2018 2021 NSF TRIPODS + X EDU: Foundational training in neuroscience and geoscience via hack weeks (role: co-PI, PI: Maryam Fazel), \$ 185,058.
- NSF SI2-SSE: An ecosystem of reusable image analytics pipelines (role: co-PI, PI: Andy Connoly), \$500,000.

2019	Google TensorFlow Research Cloud credits, 100 TPU hours role: PL
2017-2018	The Bill & Melinda Gates Foundation: The King County Analytics Project (role: co-PI, PI: Bryna Hazel-

ton), \$320,000.

2017

2016

2012

2009-2010

NSF ACI SI2-S2I2: Conceptualization: Conceptualizing a US Research Software Sustainability Insti-

1:4 100 EDI I

tute (URSSI) (role: senior Personnel, PI: Daniel Katz), \$ 499,999.

NSF BDHUBS: A Big Data Innovation Hub for the Western United States (role: co-PI, PI: Ed Lazowska), \$201,822.

XSEDE: Educational allocation for a one-day course in neuroscience and data science (role: PI), 10,000 core hours.

Amazon Web Services cloud computing credits for research (role: PI), \$30,000.

The Bill & Melinda Gates Foundation: Increasing Data-Driven Decision Making through Data Modeling Techniques and Best Practices (role: co-PI, PI: Bryna Hazelton), \$140,995.

Stanford CNI Seed grant: Diffusion MRI measured with multiple b-values (role: PI), \$8,000.

NIH/National Eye Institute, National Research Service Award (F32): The Anatomical Basis of Texture Perception in Central and Peripheral Visual Field (role: PI), \$155,346.

NIH/National Institute for Aging, National Research Service Award (F31): Neural Mechanisms of

Perceptual Learning (role: PI), \$22,253.

Invited talks

7/2024	National Institute for Physiological Sciences, Okazaki
7/2024	Yonsei University, Seoul

Department of Psychology, University of Marburg
Tanenbaum Open Science Institute Leaders Council.

11/2023 McGill University Quantitative Life Sciences and Medicine seminar series.

4/2023 Academic Data Science Alliance. "Careers in neuroscience and data science" panel.

Society for Neuroscience Professional Development Workshop: "Brain Data Science: A World of New Neuroscience Career Opportunities".

7/2022 Invited talk at Pacific Northwest National Lab MARS Seminar (online).

Invited talk at Research Running on Cloud Compute & Emerging Technologies (RRoCCET) 2021 (online).

Oregon State University (Corvalis) and Nanyang Techincal University (Singapore) CN Yang Scholars program (online)

10/2020 Open Data Science Conference West, San Francisco, CA (and online).

9/2020 Amazon Web Services Education: Research Seminar Series (online)

9/2019 INCF Neuroinformatics congress, Warsaw, Poland (Keynote).

5/2019 Halıcıoğlu Data Science Institute, University of California, San Diego.
5/2019 Northwest Data Science Summit, University of Washington, Seattle, WA.

10/2018 Carnegie Mellon University, Open Science Symposium, Pittsburgh, PA.

Presentation to the Advisory Council to the NIH Director Working Group for the BRAIN Initiative 2.0, Baylor College of Medicine, Houston, TX.

6/2018 ISMRM educational course: "Modeling diffusion MRI", Paris, France.

Edmund and Lily Safra Center for Brain Science, The Hebrew University of Jerusalem, Israel.

5/2018 Department of Physiology and Biophysics, University of Washington, Seattle, WA.

11/2017 Center for Studies in Demography and Ecology, University of Washington, Seattle, WA.

7/2017 PNW Prostate Cancer SPORE annual meeting, Seattle, WA.

11/2015 Psychology Department, Indiana University, Bloomington, IN.

Berkeley Institute for Data Science. Berkeley, CA 3/2015 Neuroimaging Laboratory, Washington University, Saint Louis, MO. 8/2014 Max Planck Institute for Brain Research, Frankfurt, Germany. 5/2013 Tech talk at GitHub Inc, San Francisco, CA 1/2012 Psychology Department, Dartmouth University. Hannover, NH. 6/2011 Center for Magnetic Resonance Research, University of Minneapolis. Twin Cities, MN 1/2011 Department of Psychology, Vanderbilt University. Nashville, TN. 1/2011 Posit Science. San Francisco, CA. 3/2009 Stanford Vision Lunch. Stanford, CA. 10/2008 The Institute for Theoretical Biology, Humboldt University, Berlin, Germany. 9/2008 The Institute for Biology, Ludwig-Maximillian University, Munich, Germany.

UC Davis, Imaging Research Center. Davis, CA.

Software

9/2008

8/2008

Core contributions

pyAFQ: automated quantification of brain white matter fibers https://yeatmanlab.github.io/pyAFQ/. 2015 -AFQ-Browser https://yeatmanlab.github.io/AFQ-Browser. 2017 -AFQ-Insight: Statistical learning for tractometry data https://yeatmanlab.github.io/AFQ-Insight/. 2020 -TractR: Statistical learning for tractometry data https://github.com/yeatmanlab/tractr/. 2022 -Cloudknot: a pythonic interface to AWS Batch Services. https://nrdg.github.io/cloudknot 2017 -Pulse2percept: Models for Sight Restoration. https://uwescience.github.io/pulse2percept/ 2016 -DIPY: diffusion MRI in Python, http://dipy.org 2011 -*Nitime*: Time-series analysis for neuroscience, http://nitime.org 2008 -

Minor contributions

Minor contributions across many open source software libraries in the Python scientific eco system, including Scipy, Matplotlib, Scikit Learn, Scikit Image, Jupyter and IPython, as well as many neurosciencespecific software libraries, including Nibabel, Nipype, Nipy. Full record of open-source software contributions available at https://github.com/arokem

Data sets

- 2013 Human brain diffusion-weighted MRI, collected with high diffusion-weighting angular resolution and repeated measurements at multiple diffusion-weighting strengths, https://purl.stanford.edu/ ng782rw8378
- 2012 Test-retest Diffusion MRI, measured at 1.5 mm isotropic resolution, b-value=2000 s/mm², https: //purl.stanford.edu/rt034xr8593
- Intracellular recordings from insect primary auditory receptor neurons, https://crcns.org/data-sets/ 2005 ia/ia-1

Selected Conference presentations

- 1. Early life adversity and white matter development. Adam Richie-Halford, Ethan Roy, John Kruper, Jason Yeatman, **Ariel Rokem**. Annual Meeting of the Society for Neuroscience, 2022.
- Deep learning for analysis of diffusion-MRI based white matter tractometry. Joanna Qiao, Jason Yeatman, Ariel Rokem, Adam Richie-Halford (2022). Annual Meeting of the Society for Neuroscience, 2022.
- 3. Francois Rheault, Valérie Hayot-Sasson, Robert E. Smith, Christopher Rorden, Jacques-Donald Tournier, Eleftherios 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** (2002). TRX: A community-oriented tractography file format. Annual Meeting of the Organization for Human Brain Mapping, 2022.
- 4. Adam Richie-Halford, Matthew Cieslak, Azeez Adebimpe, Sydney Covitz, McKenzie Paige Hagen, John Kruper, Mengjia Lyu, Oscar Miranda-Dominguez, Audrey Houghton, Damien Fair, Jason D. Yeatman, Theodore D. Satterthwaite, Ariel Rokem. (2022) NIRV: The NeuroImaging Report Viewer. Annual Meeting of the Organization for Human Brain Mapping, 2022.
- 5. Mareike Grotheer, David Bloom, John Kruper, Manjari Narayan, Adam Richie-Halford, Vicente A. Aguilera González, Jason D. Yeatman, Kalanit Grill-Spector, and Ariel Rokem (2022) Spatiotemporal differences in development of preterm infants white matter bundles are explained by faster *in utero* compared to *ex utero* myelination. Annual Meeting of the Organization for Human Brain Mapping, 2022.
- Manjari Narayan, Noah Simon, Adam Richie-Halford, Jason Yeatman, Ariel Rokem (2021).
 Nonparametric causal analysis of brain and cognition, applied to developmental neuroimaging. Annual Meeting of the Organization for Human Brain Mapping 2021.
- John Kruper, Jason D. Yeatman, Adam Richie-Halford, David Bloom, Mareike Grotheer, Sendy Caffarra, Gregory Kiar, Iliana I. Karipidis, Ethan Roy, Ariel Rokem (2021). Evaluating the reliability of diffusion-MRI based tractometry. Annual Meeting of the Organization for Human Brain Mapping 2021.
- 8. Adam Richie-Halford, Matthew Cieslak, Alexandre R. Franco, Valerie J. Sydnor, Jason Yeatman, Lei Ai, Michael Milham, Theodore D. Satterthwaite, **Ariel Rokem** (2021). A preprocessed open diffusion derivatives dataset from the Healthy Brain Network. Annual Meeting of the Organization for Human Brain Mapping 2021. Received *Merit Abstract Award*.
- 9. Mauro Bisson, Josh Romero, Thorsten Kurth, Massimiliano Fatica, Pablo F. Damasceno, Xihe Xie, Adam Richie-Halford, Serge Koudoro, Eleftherios Garyfallidis, **Ariel Rokem** (2021). GPU-accelerated diffusion MRI tractography in DIPY. International Society for Magnetic Resonance in Medicine 2021
- 10. Rafael Neto Henriques, Marta Correia, Maurizio Marrale, Elizabeth Huber, John Kruper, Serge Koudoro, Jason Yeatman, Eleftherios Garyfallidis, Ariel Rokem (2021). Diffusional Kurtosis Imaging in the Diffusion Imaging in Python Project. Inernational Society for Magnetic Resonance in Medicine 2021

- 11. A. Richie-Halford, J. Yeatman, N. Simon, and **A. Rokem** (2021). Multidimensional analysis and detection of informative features in diffusion MRI measurements of human white matter. Inernational Society for Magnetic Resonance in Medicine 2021. Received the *Magna Cum Laude* award based on reviewer scores.
- 12. A. Keshavan, J. Yeatman, A. Rokem (2019). Swipes for science: An open-source gamified citizen science framework for scalable data annotation. Organization for Human Brain Mapping, 2019.
- 13. A. Richie-Halford J. Yeatman, **A. Rokem**, A. Keshavan (2019). DMRIprep: a Robust, Scalable Preprocessing Pipeline for diffusion MRI. Organization for Human Brain Mapping 2019.
- 14. S. Xiao, Y. Wu, A. Y. Lee, **A. Rokem** (2019). MRI2MRI: deep learning neural networks infer brain diffusion properties from T1-weighted MRI. Organization for Human Brain Mapping 2019.
- 15. A. Richie-Halford, Jason Yeatman, Noah Simon, and **A. Rokem** (2018, 2019). Multidimensional analysis and detection of informative features in diffusion MRI measurements of human white matter. Society for Neuroscience, 2018. Organization for Human Brain Mapping 2019.
- 16. S. Xiao, Y. Wu and A.Y. Lee and **A. Rokem** (2018). MRI2MRI: A deep convolutional network that accurately transforms between brain MRI contrasts. International Society for Magnetic Resonance in Medicine, 2018
- 17. Q. Tian, G. Yang, C.W.U. Leuze, **A. Rokem**, B.L. Edlow, J. McNab (2017). Model-free Fourier Reconstruction of Diffusion Propagator and Orientation from Multi-b-shell Diffusion MRI Data. Annual Meeting of the The International Society for Magnetic Resonance in Medicine, 2017 and Annual Meeting of the Organization of Human Brain Mapping, 2017.
- 18. R. Neto-Henriques, Ø. Bergmann, A. Rokem, O. Pasternak, M. M. Correia (2017). Exploring the potentials and limitations of improved free-water elimination DTI techniques (2017). Annual Meeting of the The International Society for Magnetic Resonance in Medicine, 2017.
- 19. M. Beyeler, **A. Rokem**, G.M. Boynton, I. Fine (2017). Reverse-engineering optimized stimulation protocols in epiretinal prosthesis patients. The Eye and the Chip conference, 2017
- 20. M. Beyeler, **A. Rokem**, G.M. Boynton, I. Fine (2017). Modeling perceptual experience of retinal prosthesis patients during paired-electrode stimulation. Cosyne 2017.
- 21. **A. Rokem**, L. Huber, P. Mehta, R. Henriques, M. Balazinska, J. Yeatman (2016). Diffusion Kurtosis Imaging for the Human Connectome Project. Annual meeting of the Society for Neuroscience, San Diego, CA.
- 22. **A. Rokem**. Future Proofing Data Intensive Research at the University of Washington eScience Institute. Talk at the UW IT Tech Connect Conference, March 2016. Slides: http://arokem.github.io/2016-03-24-techconnect/
- 23. **A. Rokem**, E. Garyfallidis, F. Pestilli, B. Wandell, Statistical learning in DIPY. Talk presented at the 2015 Scientiffic Computing in Python meeting, Austin, TX and at PyData NW, Redmond, WA. Slides: http://arokem.github.io/2015-pydatanw/
- 24. S. Ogawa, H. Takemura, M. Terao, T. Haji, **A. Rokem**, F. Pestilli, J.D. Yeatman, H. Horiguchi, H. Tsuneoka, B.A. Wandell, Y. Masuda(2014) Trans-synaptic changes in central white matter pathways in retinitis pigmentosa. Annual meeting of the Society for Neuroscience, Washington D.C.

- 25. **A. Rokem**, G.S. Tang, T. Lucas, A. Thamrongrattanarit, L. Baltusis, R.F. Dougherty, R. Mata, L.L. Carstensen, G.R. Samanez-Larkin, and S.M. McClure (2014). Exploration and exploitation in action selection in humans depends on striatal GABA. Annual meeting of the Society for Neuroscience, Washington D.C.
- 26. **A. Rokem** and F. Pestilli (2014). Measuring and modeling diffusion and white matter tracts. Symposium talk at the Vision Science Society meeting. St Pete's Beach, FL.
- 27. **A. Rokem**, K. L. Chan, J.D. Yeatman, F. Pestilli, A. Mezer, and B. A. Wandell (2014). Evaluating the accuracy of diffusion models at multiple b-values with cross-validation. Annual meeting of the Society for Magnetic Resonance in Medicine. Milan, Italy.
- 28. Q. Tian, A. Rokem, B. L. Edlow, R. Folkerth, and J. A. McNab (2014). Aliasing Artifacts in Orientation Distribution Functions: A Diffusion Spectrum Imaging Study. Annual meeting of the Society for Magnetic Resonance in Medicine. Milan, Italy.
- 29. **A. Rokem** (2013). Tools for reproducible neuroimaging: an example from diffusion MRI. eResearch NZ, Christchurch, 2013.
- 30. **A. Rokem**, J.D. Yeatman, F. Pestilli, K.N. Kay, A. Mezer, S. Van der Walt and B.A. Wandell (2013). Evaluating models of diffusion MRI data with cross-validation. Annual meeting of the Organization for Human Brain Mapping, Seatlle, WA.
- 31. F. Pestilli, J.D. Yeatman, A. Rokem, K.N. Kay and B.A. Wandell (2013). Statistical evaluation of white matter connections. Annual meeting of the International Society for Magnetic Resonance in Medicine, Salt Lake City, UT and annual meeting of the Organization for Human Brain Mapping, Seattle, WA.
- 32. H. Takemura, F. Pestilli, A. Rokem, J. Winawer, J.D. Yeatman and B.A. Wandell (2013). The visual dorsal and ventral streams communicate through the vertical occipital fasciculus. Annual meeting of the Organization for Human Brain Mapping, Seattle, WA.
- 33. A. Mezer, J.D. Yeatman, **A. Rokem** and B.A. Wandell (2013). Language white matter tract laterality: from tractography to biophysical meaning. Annual meeting of the Organization for Human Brain Mapping, Seattle, WA.
- 34. J.D. Yeatman, A. Mezer, **A. Rokem**, F. Pestilli, H. Feldman and B.A. Wandell (2013) Automated Fiber-tract Quantification of White Matter Tissue Biology. Annual meeting of the Organization for Human Brain Mapping, Seattle, WA.
- 35. **A. Rokem**, and Landau A.N. (2013). Voluntary attention does not alleviate orientation specific surround suppression. Vision Sciences Society annual meeting. Naples, FL.
- 36. **A. Rokem**, and M.A. Silver Cholinergic enhancement increases information content of stimulus representations in human visual cortex (2012). Presentation at the symposium: Neuromodulatory Mechanisms, New Orleans, LA.
- 37. E. McDevitt, B. Bays, **A. Rokem**, M. A. Silver and S.C. Mednick (2012). Men need a nap to show perceptual learning of motion direction discrimination, but women do not. Vision Sciences Society Meeting, Naples, FL.
- 38. **A. Rokem**, Michael A. Silver (2012). Cholinergic enhancement of perceptual learning in the human visual system. Oral presentation at a symposium on neuromodulation of visual perception. Vision Sciences Society Meeting, Naples, FL.

- 39. **A. Rokem**, Michael A. Silver, Elizabeth A. McDevitt and Sara C. Mednick (2011), The effects of naps on the magnitude and specificity of perceptual learning of motion direction discrimination. Vision Sciences Society Meeting, Naples, FL.
- 40. **A. Rokem**, R.E. Ooms, J.H. Yoon, M.J. Minzenberg, C.S. Carter and M.A. Silver (2010), Broader tuning for stimulus orientation in patients with schizophrenia. Annual Meeting of the Society for Neuroscience, San Diego, CA.
- 41. **A. Rokem**, F. Perez, M. Trumpis, P. Ivanov, K. Koepsell, T. Blanche, D. Fegen, M. D'Esposito (2010). Nitime: an open-source library for time-series analysis of neuroscience data. Annual meeting of the Organization for Human Brain Mapping, Barcelona, Spain.
- 42. W. Prinzmetal, A. Rokem, A.N. Landau, D. Wallace, M.A. Silver, M. D'Esposito (2010). The effects of the D2 dopamine receptor agonist bromocriptine on voluntary and involuntary spatial attention in humans. Vision Sciences Society Meeting, Naples FL.
- 43. **A. Rokem** and M.A. Silver (2010) Cholinergic enhancement augments perceptual learning in the human visual system: a pharmacological fMRI study. Vision Sciences Society Meeting, Naples, FL.
- 44. **A. Rokem** and F. Perez (2009). Time-series analysis in Nipy. The 8th Python in Science Conference (SciPy 2009), Pasadena, CA
- 45. **A. Rokem**, D. Garg, A. Landau, W. Prinzmetal and M.A. Silver (2009). Effects of cholinergic enhancement on voluntary and involuntary attention. Vision Science Society Meeting, Naples, FL, Annual Meeting of the Society for Neuroscience, Chicago, IL and CSAIL conference, Hood River, OR.
- 46. D.W. Bressler, **A. Rokem**, M.A. Silver (2009). Visual spatial attention improves fMRI response reliability by decreasing the amplitude of endogenous slow oscillations in visual cortex. Annual Meeting of the Society for Neuroscience, Chicago, IL.
- 47. **A. Rokem** and M.A. Silver (2008) Cholinergic enhancement augments perceptual learning in the human visual system. Annual Meeting of the Society for Neuroscience, Washington, DC.
- 48. M.A. Silver, J. Yoon, **A. Rokem**, M.J. Minzenberg and C.S. Carter (2008) Reduced orientation-specific surround suppression in schizophrenia. Annual Meeting of the Society for Neuroscience, Washington, DC.
- 49. J.-H. Schleimer, **A. Rokem**, M.B. Stemmler (2008) Optimal phase dynamics of oscillatory neurons, the spike-triggered stimulus covariance, and maximal information transfer. Annual Meeting of the Society for Neuroscience, Washington, DC.
- 50. **A. Rokem**, S. Sanghvi and M. Silver (2007). Motion adaptation bandwidth anisotropies in the human visual system. The Optical Society of America Fall Vision Meeting, Berkeley, CA, September 2007 and Dynamical Neuroscience XV 3rd Annual Computational Cognitive Neuroscience Conference, San Diego, CA, November 2007 (selected to appear in a special issue of Brain Research devoted to Computational Cognitive Neuroscience).
- 51. I. Samengo, H.G. Eyherabide, **A. Rokem** and A.V.M. Herz (2006). Information transmission in burst spiking. 2nd Bernstein Symposium for Computational Neuroscience. Berlin, Germany, 2006

- 52. M. Nahum, A. Rokem, I. Nelken and M. Ahissar (2004). Speech intelligibility & binaural interactions: effects of stimulus familiarity, stimulus similarity & set size. The annual meeting of the Israeli Society for Neuroscience, the 30th Goettingen Neurobiology conference, and Cosyne 2005.
- 53. **A. Rokem** and M. Ahissar (2004). Interactions between sensory and cognitive abilities in early-blind individuals. The annual meeting of the Israeli Society for Neuroscience and at the 30th Goettingen Neurobiology conference.
- 54. S. Watzl, **A. Rokem**, T. Gollisch and A.V. Herz (2003). Coding capacitites of auditory receptor cells under different stimulus conditions. The 29th Goettingen Neurobiology conference.

Teaching

Stanford University. Stanford, CA.

Washington University, St. Louis, MO

11/2014

8/2014

Classes

Spring 2024	Informatics for Psychology
5/2021	Guest instructor – Image Analysis for Data Scientists, UW Department of Chemical Engineering (In-
0,2021	structor: Chad Curtis)
5/2018	Guest instructor – Data Science and Society, UW Department of Sociology (Instructor: Afra Mashhadi)
10/2017	Guest instructor – Data Science and Society, UW Department of Sociology (Instructor: Afra Mashhadi)
11/2015	Guest Instructor – eScience Python Seminar (Instructor: Jake Vanderplas).
4/2014	Guest Instructor: MA capstone class, Department of Statistics, University of California, Berkeley (In-
, -	structor: Victoria Stodden).
10/2013	Guest Instructor – MRI methods, Department of Psychology, Stanford University (Instructor: Brian
	Wandell).
Spring 2008	Teaching Assistant – Brain Mind and Behavior, Department of Biology, UC Berkeley (Instructor: David
1 0	Presti).
Fall 2006	Teaching Assistant – Mammalian Neuroanatomy, Department of Biololgy, UC Berkeley (Instructor:
	Jeff Winer).
Fall 2003	Teaching Assistant – Perception, Department of Psychology, Hebrew University of Jerusalem (Instruc-
	tor: Merav Ahissar).
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	Software and Data Carpentry
2022	
2022	University of Washington eScience Institute: led instruction of pilot workshop in Image Processing in
2022 2015 – 2020	University of Washington eScience Institute: led instruction of pilot workshop in Image Processing in Python, 20 participants.
	University of Washington eScience Institute: led instruction of pilot workshop in Image Processing in Python, 20 participants. University of Washington eScience Institute: led instruction of 20 workshops, >1,000 participants from
	University of Washington eScience Institute: led instruction of pilot workshop in Image Processing in Python, 20 participants.
2015 – 2020	University of Washington eScience Institute: led instruction of pilot workshop in Image Processing in Python, 20 participants. University of Washington eScience Institute: led instruction of 20 workshops, >1,000 participants from >30 departments on campus.
2015 – 2020	University of Washington eScience Institute: led instruction of pilot workshop in Image Processing in Python, 20 participants. University of Washington eScience Institute: led instruction of 20 workshops, >1,000 participants from >30 departments on campus. University of Washington eScience Institute: led 3 Carpentries instructor training workshops. Trained
2015 – 2020 2015 –	University of Washington eScience Institute: led instruction of pilot workshop in Image Processing in Python, 20 participants. University of Washington eScience Institute: led instruction of 20 workshops, >1,000 participants from >30 departments on campus. University of Washington eScience Institute: led 3 Carpentries instructor training workshops. Trained >40 Carpentries instructors.
2015 – 2020 2015 –	University of Washington eScience Institute: led instruction of pilot workshop in Image Processing in Python, 20 participants. University of Washington eScience Institute: led instruction of 20 workshops, >1,000 participants from >30 departments on campus. University of Washington eScience Institute: led 3 Carpentries instructor training workshops. Trained >40 Carpentries instructors. Annual Instructor Training, The West Big Data Innovation Hub. Seattle, WA. Trained more than >50
2015 - 2020 2015 - 2018 - 2021	University of Washington eScience Institute: led instruction of pilot workshop in Image Processing in Python, 20 participants. University of Washington eScience Institute: led instruction of 20 workshops, >1,000 participants from >30 departments on campus. University of Washington eScience Institute: led 3 Carpentries instructor training workshops. Trained >40 Carpentries instructors. Annual Instructor Training, The West Big Data Innovation Hub. Seattle, WA. Trained more than >50 Carpentries Instructors.
2015 - 2020 2015 - 2018 - 2021 4/2018	University of Washington eScience Institute: led instruction of pilot workshop in Image Processing in Python, 20 participants. University of Washington eScience Institute: led instruction of 20 workshops, >1,000 participants from >30 departments on campus. University of Washington eScience Institute: led 3 Carpentries instructor training workshops. Trained >40 Carpentries instructors. Annual Instructor Training, The West Big Data Innovation Hub. Seattle, WA. Trained more than >50 Carpentries Instructors. Southern California Tribal Digital Village, Pala, CA
2015 - 2020 2015 - 2018 - 2021 4/2018 7/2016	University of Washington eScience Institute: led instruction of pilot workshop in Image Processing in Python, 20 participants. University of Washington eScience Institute: led instruction of 20 workshops, >1,000 participants from >30 departments on campus. University of Washington eScience Institute: led 3 Carpentries instructor training workshops. Trained >40 Carpentries instructors. Annual Instructor Training, The West Big Data Innovation Hub. Seattle, WA. Trained more than >50 Carpentries Instructors. Southern California Tribal Digital Village, Pala, CA Instructor Training, SciPy Annual Conference, Austin, TX.
2015 - 2020 2015 - 2018 - 2021 4/2018 7/2016 12/2016	University of Washington eScience Institute: led instruction of pilot workshop in Image Processing in Python, 20 participants. University of Washington eScience Institute: led instruction of 20 workshops, >1,000 participants from >30 departments on campus. University of Washington eScience Institute: led 3 Carpentries instructor training workshops. Trained >40 Carpentries instructors. Annual Instructor Training, The West Big Data Innovation Hub. Seattle, WA. Trained more than >50 Carpentries Instructors. Southern California Tribal Digital Village, Pala, CA Instructor Training, SciPy Annual Conference, Austin, TX. Instructor Training, Pacific Northwest National Lab, Richland, WA.

9/2013 6/2013 4/2013 3/2013	University of Southern California. Los Angeles, CA Christchurch University. Christchurch, New Zealand. Lawrence Berkeley National Lab. Berkeley, CA Stanford University. Stanford, CA
	Other workshops
2021 – 2024	Co-organizer (with Catherine Lebel, François Rheault): "Tractometry: peering into the white matter", educational course at the annual meeting of the Organization for Human Brain Mapping
11/2023	Faculty: African Brain Data Science Academy https://africanbraindatanetwork.com/abds-academy/.
1/2022	Organizer and lead instructor: Workshop on data science training and collaboration in Hispanic-Serving Institutions (West Big Data Hub and HSI STEM Hub; https://uwescience.github.io/dstc-20220118/).
6/2021	Organizer and lead instructor: Workshop on data science training and collaboration in Hispanic-Serving Institutions (West Big Data Hub and HSI STEM Hub; https://uwescience.github.io/dstc-2021/).
9/2019	Organizer and lead instructor: workshop on data science training and collaboration in Hispanic-Serving Institutions (West Big Data Hub and HSI STEM Hub; https://uwescience.github.io/2019-09-16-dstc-workshop/).
2019 & 2020	Co-organizer (with Andrew Doyle): "Deep Learning in Human Brain Mapping", educational course at the annual meeting of the Organization for Human Brain Mapping
5/2015	Brainhacking 101. Organization for Human Brain Mapping annual meeting.
3/2014 10/2012	Python for Neuroscience Workshop, University of Nottingham, UK. Reproducible Research in Neuroimaging Workshop. Stanford Center for Cognitive and Neurobiological Imaging.
8/2007	Matlab and the Psychophysics Toolbox, Department of Psychology, UC Berkeley.
	Mentorship
	Postdocs
2024 –	Ittai Shamir
2023 –	Kelly Chang
2020 – 2022	Adam Richie-Halford. Currently Research and Development Scientist at Stanford.
2020 – 2021 2016 – 2019	Manjari Narayan (with Jason Yeatman). Currently Machine Learning Scientist at Dyno Therapeutics. Michael Beyeler (with Ione Fine). Currently Assistant Professor at the University of California, Santa-
	Barbara.
2017 – 2018	Anisha Keshavan (with Jason Yeatman). Currently Senior Data Scientist at Octave Biosciences.
2016 – 2017	Dongfang Zhao (With Magda Balazinska). Currently Assistant Professor at University of Nevada, Reno.
	PhD students
	As principal advisor
2022 – 2021 –	John Kruper McKenzie Hagen

2021 -

	As secondary advisor
2017 – 2022 –	Ezgi Yücel (with Ione Fine) Vaishnavi Mohan (with Ione Fine)
	Post-baccalaureate students
2022 - 2024 2020 - 2022 2020 - 2021	Teresa Gomez (NIH research fellowship) John Kruper (UWIN post-baccalaureate fellow). David Bloom.
	PhD committee membership
2021 - 2023 2022 2019 - 2020 2017 - 2020 2017	Shervin Sahba, UW Physics Kelly Chang, UW Department of Psychology Parmita Mehta, UW Computer Science and Engineering. Chad Curtis, UW Department of Chemical Engineering. Kivan Polimis, UW Department of Sociology.
	Google Summer of Code Open Source Software Interns
Summer 2016 Summer 2015	Shahnawaz Ahmed (DIPY). Rafael Neto-Henriques (DIPY).
	Research interns and undergraduate students
2023 2022 2021	Qiqi Liang (Biology undergraduate student), Isaac Crane (Highschool student intern). Joanna Qiao (Psychology independent study). Leqi Teng (Psychology Honors Student), Cecilia Barnes (HCDE independent study).
	Additional mentorship
2022 – 2023 –	Academic Data Science Alliance individual mentorship: Emily Grabowski. African Brain Data Network mentorship: Fidelis Bayor (Ghana), Ibeachu Chinagorom (Nigeria), Safiya Hanwa (Nigeria)
	Public Outreach
2023 –	Lectures about early life brain development to small groups of parents through the Program for Early Parent Support (PEPS) Seattle.
	Service
2024 – 2021 –	Member, Scientific Committee, International Society for Tractography Advisory Committee for USC-based Reproducible Rehabilitation (ReproRehab) research education program https://www.reprorehab.usc.edu/

Chair, "Data Science and Neuroinformatics" symposium at the International Neuroinformatics Coor-

Chair, International Neuroinformatics Coordinating Facility Training and Education Committee.

2020 -

2021

dination Facility Assembly

- 2018 2022 Member, Organization for Human Brain Mapping Education Committee.
- 2017 2020 Chair, University of Washington eScience Institute Special Interest Group on Neuroinformatics.
- 2020 2022 Deputy Chair, International Neuroinformatics Coordinating Facility Training and Education Committee.
- 2017 Member of the International Neuroinformatics Coordinating Facility Training and Education Committee.
- 2017 2018 Chair, University of Washington eScience Institute Working Group on Reproducibility and Open Science.
- 2017 Chair (with Olivia Guest) mini-symposium in neuroscience, *Scientific Computing in Python* conference.
- 2016 2019 Co-PI of the Western Big Data Innovation Hub.
- 2016 2017 Organizer of the ImageXD workshop series on image processing across domains (http://www.imagexd.org/).
- 2016 Software Carpentry Instructor Trainer: training and certifying instructors for Software Carpentry.
- Course Director: Summer Institute in Neuroimaging and Data Science (https://neurohackademy.org).
- 2014 Chair (with Franco Pestilli): "The White Matter Matters: Diffusion MRI in Vision Science". Symposium at the Vision Sciences Society annual meeting.
- 2012 Software Carpentry Instructor.
- 2007 2008 Coordinator, Working Group on Neuroscience and Philosophy of Mind, Townsend Center for the Humanities, University of California, Berkeley.

Editorial board member, *Scientific Data* (2021 -); Editorial board member, *Journal of Open Source Software* (2016 - 2021); Editorial board member, *Journal of Open Research Software* (2016 - 2019); Associate Editor, *Frontiers in Human Neuroscience* (2020 -); Associate Editor *Journal of Machine Learning Research* (2021-). Review Editor for *Proceedings of the National Academy of Science, USA* (2019). Editor, Special Topic: Explicating the interplay between anatomical and functional connectivity in the human brain, *Frontiers in Human Neuroscience* (2015). Program committee member for *Pattern Recognition in Neuroimaging* (2015, 2016), *Scientific Computing in Python* (2016, 2017).

Reviewer for Annals of Applied Statistics, PLoS One, Human Brain Mapping, Journal of Cognitive Neuroscience, Frontiers in Human Neuroscience, Frontiers in Abnormal Psychology, Journal of Open Research Software, Neuroimage, Journal of Vision, F1000 Research, Journal of Neuroimaging, Current Opinion in Neuroscience, Psychophysiology, Scientific Data, Proceedings of the National Academy of Science, USA, Neuroinformatics, PLoS Computational Biology, eLife, IOVS, Nature Communications, Biological Psychiatry, Imaging Neuroscience, Ophthalmology Science.

Grant reviewer for NIH, NSF, Academic Data Science Alliance, Chan Zuckerberg Initiative.

Last updated: April 14, 2024