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# Yaroslav O. Halchenko

## Education and Training

2012–2013

### Postdoctoral Fellow

Department of Psychological & Brain Sciences, Dartmouth College  
Adviser: [Dr. James V. Haxby](#)

2004–2009

### Ph.D. in Computer Science

Computer Science Department, NJIT (NJ Institute of Technology)  
Adviser: [Dr. Stephen J. Hanson](#), Rutgers-Newark

2000–2003

### M.S. in Computer Science

Computer Science Department, UNM (University of New Mexico)  
Adviser: [Dr. Barak Pearlmutter](#)

1994–1999

### M.S. in Laser and Optoelectronic Engineering

Computer Systems Department, VSTU (Vinnitsia State Technical University), Ukraine

1994

### Graduated with honors

Physics and Mathematical Gymnasia No.17, Ukraine

## Employment

2018

### Research Associate Professor, [Department of Psychological & Brain Sciences](#), [Center for Cognitive Neuroscience](#), [Dartmouth Brain Imaging Center](#), Dartmouth College

- Leading the Center for Open Neuroscience (CON) ([centerforopenneuroscience.org](#)) at Psychological and Brain Sciences Department
- Leading a number of (inter)national data and computational archives and distributions:
  - PI of the distributed data management and distribution platform: DataLad ([datalad.org](#)) (NSF CRCNS) [15]
  - Co-PI of the BRAIN Initiative Distributed Archives for Neurophysiology Data Integration: DANDI ([dandi-archive.org](#)) (NIH R24)
  - The lead of the DataLad distribution ([datasets.datalad.org](#)) of over 260 TB of neural data
  - Providing historical archive of the Singularity Hub ([singularity-hub.org](#)) distribution of computational containers
  - The lead of the computation platform for neuroscience: NeuroDebian ([neuro.debian.net](#)) [38]
- Leading TR&D3 of the Center for Reproducible Neuroimaging Computation: ReproNim ([repronim.org](#)) (NIH P41)
  - Neuroimaging Computational Environments Manager: ReproMan, formerly NICEMAN ([niceman.repronim.org](#))
  - automated system for collection of MR BIDS datasets (deployed at DBIC): ReproIn/HeuDiConv ([reproin.repronim.org](#))
- Contributing to the development of data standards: BIDS [3, 23], NWB, NIDM(-PROV), etc.
- Designing and/or implementing various methodological, instrumentation, and software developments for open neuroscience: statistical learning analysis of neural data: PyMVPA ([pymvpa.org](#)) [45, 46], automated citation of software and data: DueCredit ([ducredit.org](#)), etc. Visit [centerforopenneuroscience.org/projects](#) for more information.
- Research projects in visual perception [*e.g.*, 25, 26, 28], neuroimaging biomarkers for depression [*e.g.*, 17, 11], and explaining the “noise” variance in MRI data [4].

2016  
2018

**Research Assistant Professor**, [Department of Psychological & Brain Sciences](#), [Center for Cognitive Neuroscience](#), [Dartmouth Brain Imaging Center](#), Dartmouth College

2016

**Adjunct Research Professor**, [Department of Computer Science](#), Dartmouth College

- Working with undergraduate students (independently, as a part of the Women in Science Project, or as a thesis co-advisor)

2013  
2015

**Research Scientist**, [Center for Cognitive Neuroscience](#), Dartmouth College

- Visual perception: effects of familiarity on face identification [34, 36]
- Participating in Haxby lab's methodological developments for neuroimaging data analysis: hyperalignment [42], RSA [37], clustering, *etc.*
- Work on PyMVPA ([pymvpa.org](#)), NeuroDebian ([neuro.debian.net](#)), DataLad ([datalad.org](#)) and other scientific software projects

2005–2009

**Computing Cluster System Administrator**, Rutgers-Newark, NJ

Deployment and maintenance of 27 node high availability cluster running GNU/Linux Debian OS

2003–2009

**Research Assistant**, [Mind/Brain RUMBA Laboratory](#), Rutgers-Newark, NJ

- Predictive decoding and fusion of the neural data from and across different imaging modalities (e.g. EEG, fMRI) to gain better understanding of perception (e.g. auditory) and cognitive (e.g. category specific processing) neuroscientific problems [47-50]
- Graphical modeling of functional brain organization [44]

2000–2002

**Research Assistant**, [Brain and Computation Laboratory](#), UNM Albuquerque, NM

Implementation and deployment of ICA (Independent Component Analysis) techniques for processing of MEG (Magnetoencephalography) data as a part of the DreamMon project

1996–1997

**Software Developer**, [Liana Company](#), Vinnytsia, Ukraine

Automated system for Planned-Economic Department of Vinnytsia Chemical Plant (Himprom)

1993–1997

**Research Assistant**

VSTU, Vinnytsia, Ukraine

System for diagnostics of vertebral column. System later was utilized in national hospitals of Ukraine

## Technical Skills

### Programming

- More than 20 years of experience with software development under GNU/Linux OS: Python, shell scripting, Version Control Systems (CVS, subversion, git, git-annex), debugging (gdb, pdb, bashdb, ddd), troubleshooting (valgrind, strace), profiling, *etc.*
- Years of use and contributions to a wide-range of Python libraries for generic (*e.g.*, NumPy, SciPy, sklearn, pandas, statsmodels) and neuroimaging-oriented (*e.g.*, nibabel, nipy, nipy) scientific Python libraries
- Experience with generic build frameworks (make, cmake), continuous integration platforms (*e.g.* buildbot, [Travis-CI](#), [AppVeyor](#))
- Varying programming experience in other functional (ELisp, Standard ML) and imperative (C/C++(g++), Java, JavaScript, Perl, PHP) languages, and computational environments (Matlab/Octave)
- Past working experience in software development on MS DOS and Windows Platforms (Turbo Pascal, VBA, Inprise Delphi) and Database design (DBE, ODBC, Postresql, MySQL)
- Strong background in object-oriented programming methods and Design Patterns
- Experienced writer of high quality well documented code. Coding practice includes peer programming, code reviews, careful troubleshooting and debugging of own code and code of others, bug triaging, profiling, versioning, unit-, doc- and regression testing, release management

- Systems Administration
- Servers and high throughput clusters administration and monitoring (DNS, NFS, SSH, NAT, Torque, Ganglia, Maui, SGE, HTCondor)
  - Automated provisioning of bare and virtualized deployments (Debian FAI, cfengine2, Ansible)

## Grant Proposals Writing

- Lead Multiple NSF (CRCNS and OCI programs) and R01/R24/P41 NIH proposals
- Participant Two BD2K, two P41 (+renewal), two R01, one R25, and one R24 NIH proposals as a Co-PI, Sub-PI, or Co-I
- Pre-application Moore foundation, NSF BRAIN EAGER
- Reviewer BRAIN Initiative (Data Archives, Integration, and Standards)
- Overall Led or participated in submission of over 30 grant proposals

## Current Funding

- PI NSF #1912266 DataLad - a decentralized system for integrated discovery, management, and publication of digital objects of science ([datalad.org](https://datalad.org))
- Co-PI NIH #1R24MH117295 DANDI: Distributed Archives for Neurophysiology Data Integration ([dandi-archive.org](https://dandi-archive.org))
- Subcontract PI, TR&D lead NIH #2P41EB019936-06A1 ReproNim: A Center for Reproducible Neuroimaging Computation. PI: Kennedy ([repronim.org](https://repronim.org))
- Co-I NIH #1R01MH127199-01A1 Infrastructure for hyperaligning fMRI data and estimating functional topographies. PIs: Haxby, Gobbini
- Co-I NIH #1R01MH129397-01A1 Personalized spatiotemporal hemodynamic response models for functional magnetic resonance imaging. PIs: Lindquist, Wager

## Past Funding

- PI NSF #1429999 CRCNS US-German Data Sharing: Converging catalogues, warehouses, and deployment logistics into a federated 'data distribution' ([datalad.org](https://datalad.org))
- Subcontract PI, TR&D lead NIH #1P41EB019936-01A1 Center for Reproducible Neuroimaging Computation (CRNC) ([repronim.org](https://repronim.org))

## Professional Activities

### SERVICE & OUTREACH

- 2022 **BossDB Standards Working Group Member**, [[Data Standards](#)]
- 2023 **NWB standard Technical Advisory Board Member**, [[Data Standards](#)]
- 2022 **BIDS standard Steering Group Member**, [[Data Standards](#)]
- 2021 **Program Committee**, NWB-DANDI Remote Developer Hackathon ([neurodatawithoutborders.github.io/nwb\\_hackathons/HCK12\\_2022\\_Remote](https://neurodatawithoutborders.github.io/nwb_hackathons/HCK12_2022_Remote)) [[Open Science](#)] [[Data Standards](#)]
- 2021 **Member**, OHBM Technology Task Force ([www.humanbrainmapping.org/i4a/pages/index.cfm?pageid=3313](http://www.humanbrainmapping.org/i4a/pages/index.cfm?pageid=3313))
- 2020 **Advisory Committee Member**, Member of the Dartmouth Brain Imaging Center (DBIC) Steering Committee ([www.dartmouth.edu/dbic](http://www.dartmouth.edu/dbic))
- 2020 **Instigator**, "Save the OHBM 2020" Poster Hall Platform ([datalad-datasets.github.io/ohbm2020-posters/](https://datalad-datasets.github.io/ohbm2020-posters/)) [[Open Science](#)]

2020

**Participant**, NWB Hackathon, Allen Institute ([alleninstitute.org/what-we-do/brain-science/events-training/2020-nwb-hackathon/](https://alleninstitute.org/what-we-do/brain-science/events-training/2020-nwb-hackathon/)) [[Open Science](#)] [[Data Standards](#)]

2019

**Founder/Co-PI/Developer**, DANDI ([dandiarchive.org](https://dandiarchive.org)) [[Open Source Software](#)][[Data Sharing](#)]  
A platform for publishing, sharing, and processing neurophysiology data funded by the BRAIN Initiative.

2019

**Participant**, DC Code Convergence AFNI Hackathon, NIMH ([codeconvergence.org](https://codeconvergence.org)) [[Open Source Software](#)]

2019

**Participant**, Making open neuroscience infrastructure interoperable 2.0 workshop, McGill ([www.bonjourstartupmtl.ca/evenement/workshop-making-open-neuroscience-infrastructure-interoperable-2-0/](https://www.bonjourstartupmtl.ca/evenement/workshop-making-open-neuroscience-infrastructure-interoperable-2-0/)) [[Open Source Software](#)]

2017

**Co-organizer**, Brainhack Global 2017, 2018@Dartmouth ([dartmouthbrainhack.github.io](https://dartmouthbrainhack.github.io)) [[Open Science](#)]

2018

2017

**Participant**, NIMH Workshop on Open and Reproducible Neuroscience ([github.com/nih-fmrif/NIMH\\_repro\\_2017\\_08](https://github.com/nih-fmrif/NIMH_repro_2017_08)) [[Open Science](#)] [[Data Sharing](#)][[Data Standards](#)]

2016

**Participant**, Open Data Ecosystem for Neuroscience (ODEN 2016) workshop ([neurographics.net/2016/07/28/oden-2016](https://neurographics.net/2016/07/28/oden-2016)) [[Open Science](#)] [[Data Sharing](#)]

2016

**Participant**, NIH Data Archive workshop [[Data Sharing](#)]

2015

**Founding Director**, Center for Open Neuroscience ([centerforopenneuroscience.org](https://centerforopenneuroscience.org)) [[Open Science](#)]  
A center to facilitate cooperation and dissemination of open methods, software platforms, data and methodologies in the neuroscience and beyond

2015

**Founder/Leading Developer**, DueCredit ([github.com/ducredit/ducredit](https://github.com/ducredit/ducredit)) [[Open Source Software](#)]  
DueCredit aims to address the problem of inadequate citations of methods and software implementations. This project was initiated in collaboration with Matteo Visconti during OHBM 2015 hackathon

2015

**Founder/Lead**, Open Brain Consent ([open-brain-consent.readthedocs.org](https://open-brain-consent.readthedocs.org)) [[Data Sharing](#)]  
To streamline data-sharing in neuroimaging this project approaches the problem of frequently absent or inadequate provisioning of data sharing in existing human research participant consent forms

2013

2018

**Contributor**, Nibotmi ([nipy.bic.berkeley.edu](https://nipy.bic.berkeley.edu)) [[Open Science](#)]  
Continuous integration (CI) service initiated by Matthew Brett (UC Berkeley) to solidify quality assurance of scientific Python projects. My contribution is in establishing CI for various projects (*e.g.*, sklearn, pandas) with accent on testing on exotic hardware platforms such as UltraSPARC

2013

**Founder/PI/Leading Developer**, DataLad ([datalad.org](https://datalad.org)) [[Open Source Software](#)][[Data Sharing](#)]  
Federated de-centralized version controlled automatically crawled data distribution

- Offers unified interface to access over 10TB scientific data from various sources

2013

2015

**Founder/Leading Developer**, NumPy Benchmarking ([yarikoptic.github.io/numpy-vbench](https://yarikoptic.github.io/numpy-vbench))  
NumPy is the core computational library used by Python community. I have established a service continuously benchmarking NumPy functionality across different development branches to guarantee absent performance regressions. Superseded by [official ASV benchmarks](#)

2011

**Initiator/Moderator**, NiPy Artwork ([github.com/nipy/nipy-artwork](https://github.com/nipy/nipy-artwork)) [[Open Science](#)]  
Promotional and informative materials for Python-based scientific software projects in [neuroimaging and electrophysiology](#)

2007

**Founder/Leading Developer**, PyMVPA ([www.pymvpa.org](https://www.pymvpa.org)) [[Open Source Software](#)][[Data Sharing](#)]  
A Python framework to streamline application of classical and novel statistical learning methods for the analysis of neural data. This project was initiated in collaboration with Michael Hanke.  
**Popularity** PyMVPA has a world-wide user base and empowered numerous studies (see [www.pymvpa.org/whoisusingit.html](https://www.pymvpa.org/whoisusingit.html))

2007

**Founder/Leading Developer**, NeuroDebian ([neuro.debian.net](http://neuro.debian.net)) [[Open Source Software](#)][[Data Sharing](#)]

NeuroDebian project builds atop of Debian to provide scientific community with a turnkey Free and Open-source Software (FOSS) platform for neuroscience (and beyond) [38, 57-59]

- Consulting FOSS projects on aspects of legal assurance (copyright/licenses), deployment, and quality assurance
- Integrating and maintaining (scientific) free and open-source software within the Debian GNU/Linux OS (AFNI, nibabel, nipy, PsychoPy, *etc.*)
- Mentoring and sponsoring uploads of contributions (OpenSesame, Stimfit, OpenWalnut, *etc.*) to Debian and NeuroDebian repositories

**Popularity** Complete number of “downloads” or installations of NeuroDebian-maintained software is impossible to assess because majority of packages is also uploaded to official Debian distribution and thus made available from any of its more than 130 derivative distributions (such as Ubuntu). Main NeuroDebian website is accessed by more than 20,000 unique IPs each month, is mirrored by 8 contributors world-wide, and receives over 900 of periodic [voluntary “popularity contest” submissions](#). See also NeuroDebian users’ testimonials ([neuro.debian.net/testimonials.html](http://neuro.debian.net/testimonials.html))

**Outreach** In 2010–2018 hosted booth exhibits at annual meetings of Society for Neuroscience, and Organization for Human Brain Mapping

2005

**Developer**, Debian Project ([www.debian.org](http://www.debian.org)) [[Open Source Software](#)]

A widely popular community-driven GNU/Linux distribution with over a hundred of derivative distributions and millions of users

2005

2017

**Leading Developer/Maintainer**, Fail2Ban Project ([www.fail2ban.org](http://www.fail2ban.org)) [[Open Source Software](#)]

A popular intrusion prevention system possibly having **millions** of users


2004

**FOSS Contributor**, [[Open Source Software](#)]

I have contributed minor fixes and improvements to nearly a hundred of FOSS projects. Visit [github.com/yarikoptic](https://github.com/yarikoptic) and [github.com/con](https://github.com/con) for an overview.

## EDITING AND REVIEWING

Associate editor [Frontiers in Brain Imaging Methods](#) 

Guest Editor [Python in Neuroscience II](#) special issue, [Frontiers in Neuroscience & Brain Imaging Methods](#) 

Review editor [Frontiers in Neuroinformatics](#) 

Ad-hoc reviewer for journals Brain Structure and Function (past), [Frontiers in Neuroinformatics](#), [GigaScience](#), [Human Brain Mapping](#) (past), [IEEE Transactions on Signal Processing](#) (past), [Journal of Cognitive Neuroscience](#) (past), [Journal of Machine Learning Research](#) (past), [Journal of Open Source Software \(JOSS\)](#), [Nature’s Scientific Data](#), [Neural Computation](#) (past), [NeuroImage](#) (past), [Neuroreport](#) (past), [Pattern Recognition](#) (past), [PLOS Computational Biology](#), [SPIE](#) (past)

Conference Abstracts NIPS, SciPy

## MEMBERSHIPS

Active [INCF Standards for Data Sharing \(Neuroimaging taskforce\)](#), [NumFOCUS Foundation](#), [Python Software Foundation](#), [Organization for Human Brain Mapping Society for Neuroscience](#)

Past [Association for Psychological Science](#), [Ukraine Small Academy of Sciences](#)

**Publications (Google Scholar h-index: 28, i10-index: 46)**



## WORK IN PROGRESS PREPRINTS, OPEN REVIEW

- [1] M. Feilong, S. A. Nastase, G. Jiahui, **Y. O. Halchenko**, M. I. Gobbini, and J. V. Haxby. The individualized neural tuning model: Precise and generalizable cartography of functional architecture in individual brains. *bioRxiv*, may 2022. doi: [10.1101/2022.05.15.492022](https://doi.org/10.1101/2022.05.15.492022)
- [2] R. Ciric, R. Lorenz, W. Thompson, M. Goncalves, E. MacNicol, C. Markiewicz, **Y. Halchenko**, S. Ghosh, K. Gorgolewski, R. Poldrack, and O. Esteban. TemplateFlow: a community archive of imaging templates and atlases for improved consistency in neuroimaging. feb 2021. doi: [10.1101/2021.02.10.430678](https://doi.org/10.1101/2021.02.10.430678)


## Standards

- [3] BIDS-Contributors. The Brain Imaging Data Structure (BIDS) Specification (1.7.0), 2022. <https://zenodo.org/record/6094534> 

## POST-PUBLICATION PEER-REVIEWED ARTICLES

- [4] C. P. Cheng and **Y. O. Halchenko**. A new virtue of phantom MRI data: explaining variance in human participant data [version 1; peer review: 1 approved, 2 approved with reservations, 1 not approved]. *F1000Research*, 9(1131), 2020. doi: [10.12688/f1000research.24544.1](https://doi.org/10.12688/f1000research.24544.1) 
- [5] S. S. Ghosh, J.-B. Poline, D. B. Keator, **Y. O. Halchenko**, A. G. Thomas, D. A. Kessler, and D. N. Kennedy. A very simple, re-executable neuroimaging publication. *F1000Research*, 6(124), 2017. doi: [10.12688/f1000research.10783.1](https://doi.org/10.12688/f1000research.10783.1) [PDF Copy] 

## EDITORIALS

- [6] M. Hanke and **Y. O. Halchenko**. A communication hub for a decentralized collaboration on studying real-life cognition. *F1000Research*, 4(62), 2015. doi: [10.12688/f1000research.6229.1](https://doi.org/10.12688/f1000research.6229.1) [PDF Copy] 


## SELECTED PRE-PUBLICATION PEER-REVIEWED ARTICLES













- [7] A. Manelis, **Y. Halchenko**, S. Satz, R. Ragozzino, S. Iyengar, H. Swartz, and M. Levine. The interaction between depression diagnosis and BMI is related to altered activation pattern in the right inferior frontal gyrus and anterior cingulate cortex during food anticipation. *Brain and Behavior*, 12(9), aug 2022a. doi: [10.1002/brb3.2695](https://doi.org/10.1002/brb3.2695)  [Preprint]
- [8] A. Manelis, **Y. O. Halchenko**, L. Bonar, R. S. Stiffler, S. Satz, R. Miceli, C. D. Ladouceur, G. Bebko, S. Iyengar, H. A. Swartz, and M. L. Phillips. Working memory updating in individuals with bipolar and unipolar depression: fMRI study. *Translational Psychiatry*, 12(1), oct 2022b. doi: [10.1038/s41398-022-02211-6](https://doi.org/10.1038/s41398-022-02211-6) 
- [9] G. Niso, R. Botvinik-Nezer, S. Appelhoff, A. D. L. Vega, O. Esteban, J. A. Etzel, K. Finc, M. Ganz, R. Gau, **Y. O. Halchenko**, P. Herholz, A. Karakuzu, D. B. Keator, C. J. Markiewicz, C. Maumet, C. R. Pernet, F. Pestilli, N. Queder, T. Schmitt, W. Sójka, A. S. Wagner, K. J. Whitaker, and J. W. Rieger. Open and reproducible neuroimaging: From study inception to publication. *NeuroImage*, 263:119623, nov 2022. doi: [10.1016/j.neuroimage.2022.119623](https://doi.org/10.1016/j.neuroimage.2022.119623)  [Preprint]
- [10] M.-H. Bourget, L. Kametsky, S. S. Ghosh, G. Mazzamuto, A. Lazari, C. J. Markiewicz, R. Oostenveld, G. Niso, **Y. O. Halchenko**, I. Lipp, S. Takerkart, P.-J. Toussaint, A. R. Khan, G. Nilsonne, F. M. Castelli, T. B. M. , J. Cohen-Adad, S. Appelhoff, R. Blair, E. Earl, F. Feingold, A. Galassi, R. Gau, C. J. Markiewicz, and T. Salo. Microscopy-BIDS: An extension to the brain imaging data structure for microscopy data. *Frontiers in Neuroscience*, 16, 2022. doi: [10.3389/fnins.2022.871228](https://doi.org/10.3389/fnins.2022.871228) 
- [11] S. Satz, **Y. O. Halchenko**, R. Ragozzino, M. M. Lucero, M. L. Phillips, H. A. Swartz, and A. Manelis. The relationship between default mode and dorsal attention networks is associated with depressive disorder diagnosis and the strength of memory representations acquired prior to the resting state scan. *Frontiers in Human Neuroscience*, 16, feb 2022. doi: [10.3389/fnhum.2022.749767](https://doi.org/10.3389/fnhum.2022.749767) 
- [12] BRAIN Initiative Cell Census Network (BICCN). A multimodal cell census and atlas of the mammalian primary motor cortex. *Nature*, 598(7879):86–102, oct 2021. doi: [10.1038/s41586-021-03950-0](https://doi.org/10.1038/s41586-021-03950-0)  [Preprint]
- [13] C. J. Markiewicz, K. J. Gorgolewski, F. Feingold, R. Blair, **Y. O. Halchenko**, E. Miller, N. Hardcastle, J. Wexler, O. Esteban, M. Goncavles, A. Jwa, and R. Poldrack. The OpenNeuro resource for sharing of neuroscience data. *eLife*, 10, oct 2021. doi: [10.7554/elife.71774](https://doi.org/10.7554/elife.71774) 
- [14] S. A. Nastase, Y.-F. Liu, H. Hillman, A. Zadbood, L. Hasenfratz, N. Keshavarzian, J. Chen, C. J. Honey, Y. Yeshurun, M. Regev, M. Nguyen, C. H. C. Chang, C. Baldassano, O. Lositsky, E. Simony, M. A. Chow, Y. C. Leong, P. P. Brooks, E. Micciche, G. Choe, A. Goldstein, T. Vanderwal, **Y. O. Halchenko**, K. A.












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<sup>†</sup> authors have contributed equally to the article









Norman, and U. Hasson. The “narratives” fMRI dataset for evaluating models of naturalistic language comprehension. *Scientific Data*, 8(1), sep 2021. doi: [10.1038/s41597-021-01033-3](https://doi.org/10.1038/s41597-021-01033-3)  [Preprint]

- [15] **Y. Halchenko**, K. Meyer, B. Poldrack, D. Solanky, A. Wagner, J. Gors, D. MacFarlane, D. Pustina, V. Sochat, S. Ghosh, C. Mönch, C. Markiewicz, L. Waite, I. Shlyakhter, A. de la Vega, S. Hayashi, C. Häusler, J.-B. Poline, T. Kadelka, K. Skytén, D. Jarecka, D. Kennedy, T. Strauss, M. Cieslak, P. Vavra, H.-I. Ioanas, R. Schneider, M. Pflüger, J. Haxby, S. Eickhoff, and M. Hanke. DataLad: distributed system for joint management of code, data, and their relationship. *Journal of Open Source Software*, 6(63):3262, jul 2021. doi: [10.21105/joss.03262](https://doi.org/10.21105/joss.03262) 
- [16] D. A. Baranger, **Y. O. Halchenko**, S. Satz, R. Ragozzino, S. Iyengar, H. A. Swartz, and A. Manelis. Protocol for a machine learning algorithm predicting depressive disorders using the t1w/t2w ratio. *MethodsX*, 8: 101595, 2021. doi: [10.1016/j.mex.2021.101595](https://doi.org/10.1016/j.mex.2021.101595) 
- [17] A. Manelis, A. Soehner, **Y. O. Halchenko**, S. Satz, R. Ragozzino, M. Lucero, H. A. Swartz, M. L. Phillips, and A. Versace. White matter abnormalities in adults with bipolar disorder type-II and unipolar depression. *Scientific Reports*, 11(1), apr 2021. doi: [10.1038/s41598-021-87069-2](https://doi.org/10.1038/s41598-021-87069-2) 
- [18] E. Bannier, G. Barker, V. Borghesani, N. Broeckx, P. Clement, K. E. Emblem, S. Ghosh, E. Glerean, K. J. Gorgolewski, M. Havu, **Y. O. Halchenko**, P. Herholz, A. Hespel, S. Heunis, Y. Hu, C.-P. Hu, D. Huijser, M. I. Vayá, R. Jancalek, V. K. Katsaros, M.-L. Kieseler, C. Maumet, C. A. Moreau, H.-J. Mutsaerts, R. Oostenveld, E. Ozturk-Isik, N. P. L. Espinosa, J. Pellman, C. R. Pernet, F. B. Pizzini, A. Š. Trbalić, P.-J. Toussaint, M. V. di Oleggio Castello, F. Wang, C. Wang, and H. Zhu. The Open Brain Consent: Informing research participants and obtaining consent to share brain imaging data. *Human Brain Mapping*, feb 2021. doi: [10.1002/hbm.25351](https://doi.org/10.1002/hbm.25351)  [Preprint]
- [19] M. Hanke, F. Pestilli, A. S. Wagner, C. J. Markiewicz, J.-B. Poline, and **Y. O. Halchenko**. In defense of decentralized research data management. *Neuroforum*, 0(0), jan 2021. doi: [10.1515/nf-2020-0037](https://doi.org/10.1515/nf-2020-0037) 
- [20] O. Esteban, R. Ciric, K. Finc, R. W. Blair, C. J. Markiewicz, C. A. Moodie, J. D. Kent, M. Goncalves, E. DuPre, D. E. Gomez, et al. Analysis of task-based functional MRI data preprocessed with fMRIPrep. *Nature Protocols*, pages 1–17, 2020. doi: [10.1038/s41596-020-0327-3](https://doi.org/10.1038/s41596-020-0327-3)  [Preprint]
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## CHAPTERS

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## INTERVIEWS

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## Invited Talks

2022

**UTexas Austin**, *Towards The Big Data Neuroscience Nirvana*, 2022 Big Data Neuroscience Workshop, Austin, TX  
[datasets.datalad.org/centerforopenneuroscience/talks/2022-tx-big-neuroscience.html](https://datasets.datalad.org/centerforopenneuroscience/talks/2022-tx-big-neuroscience.html)

2021

**Open Minds Pitt**, *Phantom data matter in Neuroimaging QA/QC beyond basic scanner QA*  
[www.youtube.com/watch?v=HcS9\\_LFdoPw](http://www.youtube.com/watch?v=HcS9_LFdoPw)

2019

**Brown University**, *Making science more open and reproducible by design, tools can help*, Providence, RI

2019

**UMass Medical School**, *Tales from the CON: A few studies of a curious mind*, Worcester, MA

2019

**MILA AI Institute**, *DataLad: Decentralized data management for collaborative, open, and reproducible science*, Montreal, Canada

2017

**McGill/MNI**, *DataLad – decentralized data distribution for consumption and sharing of scientific datasets*, Montreal, Canada

2016

**MRN**, *The road to open neuroscience: from analysis methods to software platforms*, Albuquerque, NM

2014

**SRI International**, *From statistical learning to an open-source, turnkey platform for neuroimaging*, Menlo Park, CA

2013

**SEA Software Engineering Conference**, *Open is not enough: benefits from Debian as an integrated, community-driven computing platform*, UCAR, Boulder, CO

[sea.ucar.edu/event/open-not-enough-benefits-debian-integrated-community-driven-computing-platform](http://sea.ucar.edu/event/open-not-enough-benefits-debian-integrated-community-driven-computing-platform)

**University of Pennsylvania**, *Environments for efficient contemporary research in neuroimaging*, Philadelphia, PA

2012

**INCF Bootcamp 2012**, *Applied NeuroDebian: Python in Neuroimaging*, Munich, Germany

2011

**EuroSciPy**, *π 's in Debian or Scientific Debian: NumPy, SciPy and beyond*, Paris, France

2009

**UC Berkeley**, *Reliable Decoding of Neural Data*, Berkeley, CA

**University of Hawaii at Manoa**, *PyMVPA: Fathom Brain Function through Multivariate Pattern Analysis*, Honolulu, HI

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## Didactic Activities

2012

**PBS Department, Dartmouth College**, Consulting undergraduate and graduate students in application of statistical learning methodologies in their neuroimaging-based research

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## Mentoring Student Interns

2018-2019. Adina Wagner, Germany  
2018. Taylor M. Olson, Dartmouth, WISP  
2017. Oliver Contier, Germany  
2017-2021. Christopher P. Cheng, Dartmouth  
2015. Ana Marina Jimenez Santiago, Mexico

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## Undergraduate Students (Co-)Advisor

2019-2020. Mark A. Taylor, CS Department, Dartmouth College  
2018-2019. Cara E. Van Uden, CS Department, Dartmouth College

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## Lecturer/Instructor, Various Workshops & Webinars

2021. ABCD ReproNim Course ([www.abcd-repronim.org](http://www.abcd-repronim.org))  
2020-2021. ReproNim webinars ([www.repronim.org/webinar-series.html](http://www.repronim.org/webinar-series.html))  
2019. MIND: Methods in Neuroscience at Dartmouth ([mindsummerschool.org](http://mindsummerschool.org)) summer school  
2019. Training for Reproducible Neuroimaging, pre-OHBM2019, Rome, Italy  
2019. Coastal Coding for Reproducible Neuroimaging, Miami, FL  
2018. Training for Reproducible Neuroimaging, SfN2018, San Diego, CA  
2018. Training for Reproducible Neuroimaging, OHBM2018, Singapore  
2017. Training for Reproducible Neuroimaging, Symposia@SfN2017, Washington, DC  
2017. Online Brain Intensive ([www.onlinebrainintensive.com](http://www.onlinebrainintensive.com))  
2017. MIND: Methods in Neuroscience at Dartmouth ([summer-mind.github.io](http://summer-mind.github.io)) summer school  
2017. Workshop on Open and Reproducible Neuroscience, NIMH, Bethesda, MD, USA  
2017. Nipype workshop, MIT, Cambridge, MA, USA

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## Co-lecturer, PyMVPA Workshops

2015. PBS Department, Dartmouth College, NH USA  
2015. University of York, York UK  
2014. Justus-Liebig-Universitat, Giessen Germany  
2014. Hanse-Wissenschaftskolleg Institute for Advanced Study, Delmenhorst Germany  
2012. Center for Behavioral Brain Sciences, Magdeburg Germany  
2010. Psychology and Brain Sciences, Dartmouth College, Hanover USA

2019

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**Lecturer, Introduction to Programming for Psychologists & Neuroscientists (PSYC161)**  
Psychology and Brain Sciences Department, Dartmouth College

2015

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**Lecturer, Introduction to Programming for Psychologists & Neuroscientists (PSYC161)**  
Psychology and Brain Sciences Department, Dartmouth College

2000

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**Teaching Assistant, Intermediate Programming (CS251)**  
[Prof. David Ackley](#), Computer Science Department, UNM

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## Awards, Honors & Fellowships

1998

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**Fellow, The International Scientific Fund Representatives in Ukrainian Studentship Award**

1996

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**Award, The Academy of Sciences of Ukraine**  
Project: *Information-Measuring System With Optical Transformation Biomedical Information*

1995

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**Fellow, The International Soros Science Educational Program (ISSEP) Studentship Award**

**6th place, ACM South-Eastern European Regional Programming Contest**  
1st place at VSTU

**4th place, Physics Contest among Colleges and Universities of Ukraine**  
1st place at VSTU

1994

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**1st place, Regional Programming Contest**

1993

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**3rd place, Regional Physics Contest**

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## Extra Qualifications

Languages Fluent in Russian, Ukrainian and English.

Hobbies Major contributor to the Coffee Art Collection ([neuro.debian.net/coffeeart.html](http://neuro.debian.net/coffeeart.html))