FRANCO PESTILLI

Professor, Department of Psychology and Department of Neuroscience
College of Liberal Arts and College of Natural Sciences
The University of Texas at Austin

EDUCATION

May 2008 Ph.D. Psychology, Cognition & Perception, New York University, NY.
Sep 2006 M.A. Psychology, Cognition & Perception, New York University, NY.
Dec 2000 Laurea. Experimental Psychology (*summa cum laude*), University of Rome *La Sapienza*, ITALY.

Special Professional Qualifications

2025-2026 Executive Leadership Academy (Aspiring Leaders Academy), The University of Texas, Austin, TX

EMPLOYMENT

At The University of Texas

2025-	Professor,	Department of Psychology, The University of Texas at Austin.
2025-	"	Department of Neuroscience
2020-2025	Associate Professor,	Department of Psychology, The University of Texas at Austin.
2023-2025	"	Department of Neuroscience

Courtesy appointments

2022-	Affiliated Faculty	Center for Aging and Population Science, The University of Texas, TX.
2022-		Center for Learning and Memory, The University of Texas, TX.
2020-		Institute for Neuroscience, The University of Texas, TX.
2020-		Center For Perceptual Systems, The University of Texas, TX.
2021-		Center for Theoretical and Computational Neuroscience, The University of Texas, TX.

Prior to The University of Texas

2019-2020	Associate Professor,	Department of Psychological and Brain Sciences, Indiana University. Program in Neuroscience. Program in Cognitive Science.
2015-2019	Assistant Professor,	Department of Psychological and Brain Sciences, Indiana University. Program in Neuroscience. Program in Cognitive Science.
2013-14	Research Associate,	Department of Psychology, Stanford University, Stanford, CA.
2011-13	Postdoctoral Scientist,	Stanford University, Stanford, CA.
2008-11	Postdoctoral Fellow,	Columbia University, New York, NY.
2009	Visiting Researcher,	RIKEN Brain Science Institute, Wako, Japan.
2002-08	Ph.D. Candidate,	New York University, New York, NY.
2002	Research Assistant,	New York University, Marisa Carrasco
2002	Adjunct Instructor,	Hunter College, CUNY, New York, NY.
2001	IT Consultant,	Atel SLR (a Boutique Consultancy Firm), Italy

Courtesy appointments

2017-2020	Adjunct Professor,	Department of Intelligent Systems Engineering, Indiana University, IN. Department of Computer Science, Indiana University, IN. Indiana University School of Optometry, Indiana University, IN.
2010	Fellow,	The Italian Academy, Columbia University, NY.

PUBLICATIONS

Areas of special interest and accomplishments

Over the past five years, my publications have established a coherent and influential research program spanning vision, brain connectivity and white-matter neuroscience, alongside the development of data standards, software, and computational infrastructures that enable advanced scientific operations. This work has appeared in highly selective, field-defining outlets across neuroscience, computer science, and interdisciplinary science, including Nature-family journals, leading neuroscience journals, and top-tier computational venues. My publication strategy prioritizes depth, rigor, and long-term impact over volume, targeting journals and conferences that demand substantial intellectual investment and methodological innovation. Collectively, these contributions have

advanced both fundamental understanding of brain organization and the reproducible, scalable conduct of modern science. Currently, my research is expanding to develop and apply artificial intelligence models.

Peer-Reviewed Journal Articles

Names of trainees (students and postdocs) are marked with a light-blue font.

1. Ray, K., Botes, M., Collier, M., Chavarriaga, R., Eke, D., Heyman, S., Nichols, T., Tovar-Moll, F., Ihunwo, A., & Pestilli, F. Title of Article: Global Brain Science in the Era of National Data Sovereignty. In Press *Nature Neuroscience*.
2. Hanekamp, S., Ray, K., Caron, B., Heinsfeld, A., Thavornfung, J., Flexwala, A., Mehbood, M., & Pestilli, F. Human brain white matter lateralization across the lifespan. *Communications Biology.* In press. (2026)
3. Schilling, K.G., Cieslak, M., Descoteaux, M. et al. Did you know? State-of-the-art preprocessing diffusion MRI data can improve tractography. Brain Struct Funct 231, 48 https://doi.org/10.1007/s00429-026-03107-7 (2026).
4. Heilbronner, Reid, Casta, and Pestilli Reconstructing the human brain's wiring diagram from axons up. *Trends in Neurosciences* https://doi.org/10.1016/j.tins.2025.11.001 (2025)
5. Vinci-Booher, Ren, Kay, Yu, Pestilli, and Booth Dense longitudinal neuroimaging reveals individual brain change trajectories. *Trends in Cognitive Sciences* https://doi.org/10.1016/j.tics.2025.09.005
6. Legarreta, JH.,Schiavi, S., Tang, W., Banks, G., Cieslak, M., Schilling, K., De Luca, A., Tournier, J-D., Kruper, J., Rheault, F., Sotiropoulos, SN., Pestilli, F., Veraart, J., Yang, Y-M., Descoteaux, M., Heilbronner, S., Rokem, A., What needs to be standardized for reliable, reproducible, and robust tractography?, GigaScience, 2026;, giag034, https://doi.org/10.1093/gigascience/giag034
7. Delogu, Aspinall, Ray, Heinsfeld, Victory, and Pestilli. Breaking barriers: Broadening neuroscience education via cloud platforms and course-based undergraduate research. *Frontiers in Neuroinformatics 19:1608900.* (2025)
8. Wogu, E., Filima, P., Caron, B. et al. A labeled Clinical-MRI dataset of Nigerian brains. *Sci Data* 12, 518 (2025). https://doi.org/10.1038/s41597-025-04743-0
9. Wogu E, Ogoh G, Filima P, Nsaanee B, Caron B, Pestilli F., Eke D. FAIR African brain data: challenges and opportunities. (2025) *Front Neuroinform.* doi: 10.3389/fninf.2025.1530445
10. B. Aczel, A. Barwich, A.B. Diekman, A. Fishbach, R.L. Goldstone, P. Gomez, O.E. Gundersen, P.T. von Hippel, A.O. Holcombe, S. Lewandowsky, N. Nozari, Pestilli F., & J.P.A. Ioannidis, The present and future of peer review: Ideas, interventions, and evidence, *Proc. Natl. Acad. Sci.* U.S.A. 122 (5) e2401232121, https://doi.org/10.1073/pnas.2401232121 (2025).
11. S. Musslick, L.K. Bartlett, S.H. Chandramouli, M. Dubova, F. Gobet, T.L. Griffiths, J. Hullman, R.D. King, J.N. Kutz, C.G. Lucas, S. Mahesh, Pestilli, F., S.J. Sloman, & W.R. Holmes, Automating the practice of science: Opportunities, challenges, and implications, *Proc. Natl. Acad. Sci.* U.S.A. 122 (5) e2401238121, https://doi.org/10.1073/pnas.2401238121 (2025).
12. C.P. Davis-Stober, A. Sarafoglou, B. Aczel, S.H. Chandramouli, T.M. Errington, S.M. Field, A. Fishbach, J. Freire, J.P.A. Ioannidis, K. Oberauer, Pestilli, F. , S. Ressl, D.J. Schad, J. ter Schure, K. Tentori, D. van Ravenzwaaij, J. Vandekerckhove, & O.E. Gundersen, How can we make sound replication decisions?, *Proc. Natl. Acad. Sci.* U.S.A. 122 (5) e2401236121, https://doi.org/10.1073/pnas.2401236121 (2025).
13. Rooks, L.T., Bertò, G., Pasquina, P.F. et al. Factors Associated with Persisting Post-Concussion Symptoms Among Collegiate Athletes and Military Cadets: Findings from the NCAA-DoD CARE Consortium. *Sports Med* (2025). https://doi.org/10.1007/s40279-024-02168-0
14. Vinci-Booher, S., McDonald, D. J., Berquist, E., & Pestilli, F. (2024). Associative white matter tracts selectively predict sensorimotor learning. *Communications Biology*, *7*(1), 1–11. https://doi.org/10.1038/s42003-024-06420-1
15. Bertò, G., Rooks, L.T., Broglio, S.P., McAllister, T.W., McCrea, M.A., Pasquina, P.F., Gize, C., Brooks, A., Mihalik, J., Guskiewicz, K., Goldman, J., Duman, S., Rowson, S., Port, N.L., & Pestilli, F. Diffusion tensor analysis of white matter tracts is prognostic of persisting post-concussion symptoms in collegiate athletes. (2024). *NeuroImage: Clinical*, *43*, 103646. https://doi.org/10.1016/j.nicl.2024.103646
16. Willis, HE Cavanaugh, MR, Ajina, S, Pestilli, F, Tamietto, M., Huxlin, KR, Watkins, KE, and Bridge, H. Rehabilitating homonymous visual deficits: white matter markers of recovery: Stage 1 Registered Report, *Brain Communications*, 2024; fcae324, https://doi.org/10.1093/braincomms/fcae324
17. S. Musslick, L.K. Bartlett, S.H. Chandramouli, M. Dubova, F. Gobet, T.L. Griffiths, J. Hullman, R.D. King, J.N. Kutz, C.G. Lucas, S. Mahesh, Pestilli, F., S.J. Sloman & W.R. Holmes, Automating the practice of science: Opportunities, challenges, and implications, Proc. Natl. Acad. Sci. U.S.A. 122 (5) e2401238121, https://doi.org/10.1073/pnas.2401238121 (2025).
18. Tanaka, S., Kasai, K., Okamoto, Y., Koike, S., Hayashi, T., Yamashita, A., Yamashita, O., Johnstone, T., Pestilli, F., Doya, K., Okada, G., Shinzato, H., Itai, E., Takahara, Y., Takamiya, A., Nakamura, M., Itahashi, T., Aoki, R., Koizumi, Y., Shimizu, M., Miyata, J., Son, S., Aki, M., Okada, N., Morita, S., Sawamoto, N., Abe, M., Oi, Y., Sajima, K., Kamagata, K., Hirose, M., Aoshima, Y., Hamatani, S., Nohara, N., Funaba, M., Noda, T., Inoue, K., Hirano, J., Mimura, M., Takahashi, H., Hattori, N., Sekiguchi, A., Kawato, M., Hanakawa, T., The status of MRI databases across the world focused on psychiatric and neurological disorders. (2024). *Psychiatry and Clinical Neurosciences,* 13717. http://doi.org/10.1111/pcn.13717
19. Liang, X., Cohen, A., Heinsfeld, A.S., Pestilli, F., McDonald, D.J. (2024). sparsegl: An R Package for Estimating Sparse Group Lasso. *Journal of Statistical Software*. 110(6), 1–23. https://doi.org/10.18637/jss.v110.i06.

20. Hayashi, S., Caron, B.A., Heinsfeld, A.S., Vinci-Booher, S., McPherson, B., Bullock, D.N., Bertò, G., Niso, G., Hanekamp, S., Levitas, D., Ray, K., MacKenzie, A., Avesani, P., Kitchell, L., Leong, J.K., Nascimento-Silva, F., Koudoro, S., Willis, H., Jolly, J.K., Pisner, D., Zuidema, T.R., Kurzawski, J.W., Mikellidou, K., Bussalb, A., Chaumon, M., George, N., Rorden, C., Victory, C., Bhatia, D., Aydogan, D.B., Yeh, F-C.F., Delogu, F., Guaje, J., Veraart, J., Fischer, J., Faskowitz, J., Fabrega, R., Hunt, D., McKee, S., Brown, S.T., Heyman, S., Iacovella, V., Mejia, A.F., Marinazzo, D., Craddock, R.C., Olivetti, E., Hanson, J.L., Garyfallidis, E., Stanzione, D., Carson, J., Henschel, R., Hancock, D.Y., Stewart, C.A., Schnyer, D., Eke, D.O., Poldrack, R.A., Bollman, S., Stewart, A., Bridge, H., Sani, I., Freiwald, W.A., Puce, A., Port, N.L., & Pestilli, F. (2024). brainlife.io: a decentralized and open-source cloud platform to support neuroscience research. *Nature Methods*, *21*(5), 809–813. https://doi.org/10.1038/s41592-024-02237-2
21. Levitas, D., Hayashi, S., Vinci-Booher, S., Heinsfeld, A., Bhatia, D., Lee, N., Galassi, A., Niso, G., & Pestilli, F. (2024). ezBIDS: Guided standardization of neuroimaging data interoperable with major data archives and platforms. *Scientific Data*, *11*(1), 1–14. https://doi.org/10.1038/s41597-024-02959-0
22. Renton, A. I., Dao, T. T., Johnstone, T., Civier, O., Sullivan, R. P., White, D. J., Lyons, P., Slade, B. M., Abbott, D. F., Amos, T. J., Bollmann, S., Botting, A., Campbell, M. E. J., Chang, J., Close, T. G., Dörig, M., Eckstein, K., Egan, G. F., Evas, S., Flandin, G., Garner, K.G., Garrido, M.I., Ghosh, S.S., Grignard, M., Halchenko, Y.O., Hannan, A.J., Heinsfeld, A.S., Huber, L., Hughes, M.E., Kaczmarzyk, J.R., Kasper, L., Kuhlmann, L., Lou, K., Mantilla-Ramos, Y-J., Mattingley, J.B., Meier, M.L., Morris, J., Narayanan, A., Pestilli, F., Puce, A., Ribeiro, F.L., Rogasch, N.C., Rorden, C., Schira, M.M., Shaw, T.B., Sowman, P.F., Spitz, G., Stewart, A.W., Ye, X., Zhu, J.D., Narayanan, A., & Bollmann, S. (2024). Neurodesk: an accessible, flexible and portable data analysis environment for reproducible neuroimaging. *Nature Methods*, *21*(5), 804–808. https://doi.org/10.1038/s41592-023-02145-x
23. 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, G., 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., Haitz Legarreta, J., Li, A., Li, X., Love, B.C., Lu, H., Marcantoni, E., 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., Gorgolewski, K.J. (2024) The past, present, and future of the brain imaging data structure (BIDS). *Imaging Neuroscience*. 2: 1–19. https://doi.org/10.1162/imag_a_00103
24. Vinci-Booher, S., Schlichting, M. L., Preston, A. R., & Pestilli, F. (2023). Development of human hippocampal subfield microstructure and relation to associative inference. *Cerebral Cortex*, *33*(18), 10207–10220. https://doi.org/10.1093/cercor/bhad276
25. Sreenivasan, V., Kumar, S., Pestilli, F., Talukdar, P., & Sridharan, D. (2022). GPU-accelerated connectome discovery at scale. *Nature Computational Science*, *2*(5), 298–306. https://doi.org/10.1038/s43588-022-00250-z
26. Niso, G., Botvinik-Nezerd, R., Appelhoffe, S., De La Vega, A., Esteban, O., Etzeli, J., Finc, K., Ganz, M., Gau, R., Halchenko, Y., Herholz, P., Karakuzu, A., Keator, D., Markiewicz, C., Maumet, C., Pernet, C., Pestilli, F., Queder, N., Schmitt, T., Sójka, W., Wagner, A.S., Whitaker, K.J., & Rieger, J.W. (2022). Open and reproducible neuroimaging: From study inception to publication. *NeuroImage*, *263*, 119623. https://doi.org/10.1016/j.neuroimage.2022.119623
27. Cheng, H., Vinci-Booher, S., Wang, J., Caron, B., Wen, Q., Newman, S., & Pestilli, F. (2022). Denoising diffusion-weighted imaging data using convolutional neural networks. *PloS One*, *17*(9), e0274396. https://doi.org/10.1371/journal.pone.0274396
28. Bullock, D. N., Hayday, E. A., Grier, M. D., Tang, W., Pestilli, F.*, & Heilbronner, S. R.* (2022). A taxonomy of the brain's white matter: twenty-one major tracts for the 21st century. *Cerebral Cortex*, *32*(20), 4524–4548. https://doi.org/10.1093/cercor/bhab500 *Shared senior author contribution
29. Babo-Rebelo, M., Puce, A., Bullock, D., Hugueville, L., Pestilli, F., Adam, C., Lehongre, K., Lambrecq, V., Dinkelacker, V., & George, N. (2021). Visual Information Routes in the Posterior Dorsal and Ventral Face Network Studied with Intracranial Neurophysiology and White Matter Tract Endpoints. *Cerebral Cortex*, *32*(2), 342–366. https://doi.org/10.1093/cercor/bhab212
30. Echevarria-Cooper, S. L., Zhou, G., Zelano, C., Pestilli, F., Parrish, T. B., & Kahnt, T. (2022). Mapping the Microstructure and Striae of the Human Olfactory Tract with Diffusion MRI. *The Journal of Neuroscience: The Official Journal of the Society for Neuroscience*, *42*(1), 58–68. https://doi.org/10.1523/JNEUROSCI.1552-21.2021
31. Eke, D. O., Bernard, A., Bjaalie, J. G., Chavarriaga, R., Hanakawa, T., Hannan, A. J., Hill, S. L., Martone, M. E., McMahon, A., Ruebel, O., Crook, S., Thiels, E., & Pestilli, F. (2022). International data governance for neuroscience. *Neuron*, *110*(4), 600–612. https://doi.org/10.1016/j.neuron.2021.11.017
32. Vinci-Booher, S., Caron, B., Bullock, D., James, K., & Pestilli, F. (2022). Development of white matter tracts between and within the dorsal and ventral streams. *Brain Structure & Function*, *227*(4), 1457–1477. https://doi.org/10.1007/s00429-021-02414-5
33. Allen, E. J., St-Yves, G., Wu, Y., Breedlove, J. L., Prince, J. S., Dowdle, L. T., Nau, M., Caron, B., Pestilli, F., Charest, I., Hutchinson, J. B., Naselaris, T., & Kay, K. (2022). A massive 7T fMRI dataset to bridge cognitive neuroscience and artificial intelligence. *Nature Neuroscience*, *25*(1), 116–126. https://doi.org/10.1038/s41593-021-00962-x

34. McPherson, B. C., & Pestilli, F. (2021). A single mode of population covariation associates brain network structure and behavior and predicts individual subjects' age. *Communications Biology*, *4*(1), 1–16. https://doi.org/10.1038/s42003-021-02451-0
35. Sani, I., Stemmann, H., Caron, B., Bullock, D., Stemmler, T., Fahle, M., Pestilli, F., & Freiwald, W. A. (2021). The human endogenous attentional control network includes a ventro-temporal cortical node. *Nature Communications*, *12*(1), 1–16. https://doi.org/10.1038/s41467-020-20583-5
36. Puzniak, R. J., McPherson, B., Ahmadi, K., Herbik, A., Kaufmann, J., Liebe, T., Gouws, A., Morland, A. B., Gottlob, I., Hoffmann, M. B., & Pestilli, F. (2021). CHIASM, the human brain albinism and achiasma MRI dataset. *Scientific Data*, *8*(1), 1–19. https://doi.org/10.1038/s41597-021-01080-w
37. Schilling, K.G., Rheault, F., Petit, L., Hansen, C.B., Nath, V., Yeh, F-C., Girard, G., Barakovic, M., Rafael-Patino, J., Yu, T., Fischi-Gomez, E., Pizzolato, M., Ocampo-Pineda, M., Schiavi, S., Canales-Rodríguez, E.J., Daducci, A., Granziera, C., Innocenti, G., Thiran, J-P., Mancini, L., Wastling, S., Cocozza, S., Petracca, M., Pontillo, G., Mancini, M., Vos, S.B., Vakharia, V.N., Duncan, J.S., Melero, H., Manzanedo, L., Sanz-Morales, E., Peña-Melián, Á., Calamante, F., Attyé, A., Cabeen, R.P., Korobova, L., Toga, A.W., Vijayakumari, A.A., Parker, D., Verma, R., Radwan, A., Sunaert, S., Emsell, L., De Luca, A., Leemans, A., Bajada, C.J., Haroon, H., Azadbakht, H., Chamberland, M., Genc, S., Tax, C.M.W., Yeh, P-H., Srikanchana, R., Mcknight, C.D., Yang, J.Y-M., Chen, J., Kelly, C.E., Yeh, C-H., Cochereau, J., Maller, J.J., Welton, T., Almairac, F., Seunarine, K.K., Clark, C.A., Zhang, F., Makris, N., Golby, A., Rathi, Y., O'Donnell, L.J., Xia, Y., Aydogan, D.B., Shi, Y., Guerreiro Fernandes, F., Raemaekers, M., Warrington, S., Michielse, S., Ramírez-Manzanares, A., Concha, L., Aranda, R., Rivera Meraz, R., Lerma-Usabiaga, G., Roitman, L., Fekonja, L.S., Calarco, N., Joseph, M., Nakua, H., Voineskos, A.N., Karan, P., Grenier, G., Haitz Legarreta, J., Adluru, N., Nair, V.A., Prabhakaran, V., Alexander, A.L., Kamagata, K., Saito, Y., Uchida, W., Andica, C., Abe, M., Bayrak, R.G., Gandini Wheeler-Kingshott, C.A.M., D'Angelo, E., Palesi, F., Savini, G., Rolandi, N., Guevara, P., Houenou, J., López-López, N., Mangin, J-F., Poupon, C., Román, C., Vázquez, A., Maffei, C., Arantes, M., Andrade, J.P., Silva, S.M., Calhoun, V.D., Caverzasi, E., Sacco, S., Lauricella, M., Pestilli, F., Bullock, D.N., Zhan, Y., Brignoni-Perez, E., Lebel, C., Reynolds, J.E., Nestrasil, I., Labounek, R., Lenglet, C., Paulson, A., Aulicka, S., Heilbronner, S.R., Heuer, K., Chandio, B.Q., Guaje, J., Tang, W., Garyfallidis, E., Raja, R., Anderson, A.W., Landman, B.A., & Descoteaux, M. (2021). Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset? *Neuroimage*, 243:118502. https://doi.org/10.1016/j.neuroimage.2021.118502
38. Caron, B., Stuck, R., McPherson, B., Bullock, D., Kitchell, L., Faskowitz, J., Kellar, D., Cheng, H., Newman, S., Port, N., & Pestilli, F. (2021). Collegiate athlete brain data for white matter mapping and network neuroscience. *Scientific Data*, *8*(1), 1–17. https://doi.org/10.1038/s41597-021-00823-z
39. Hanke, M., Pestilli, F., Wagner, A. S., Markiewicz, C. J., Poline, J.-B., & Halchenko, Y. O. (2021). In defense of decentralized research data management. *Neuroforum*, *27*(1), 17–25. https://doi.org/10.1515/nf-2020-0037
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41. Bertò, G., Bullock, D., Astolfi, P., Hayashi, S., Zigiotto, L., Annicchiarico, L., Corsini, F., De Benedictis, A., Sarubbo, S., Pestilli, F., Avesani, P., and Olivetti, E. (2021). Classifyber, a robust streamline-based linear classifier for white matter bundle segmentation. *NeuroImage*, *224*, 117402. https://doi.org/10.1016/j.neuroimage.2020.117402
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Peer-reviewed conference articles and public archives

Names of trainees (students and postdocs) are marked with Underlined text.

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90. Kumar, S., Sreenivasan, V., Talukdar, P., **Pestilli, F.**, and Devarajan, S. (2019) ReAl-LiFE: Accelerating the Discovery of Individualized Brain Connectomes on GPUs, *Thirty-Third AAAI Conference on Artificial Intelligence, Honolulu, HI.*
91. Lindsey, K., Bullock, D., Hayashi S., and **Pestilli, F.** (2018) Shape Analysis of White Matter Tracts via the Laplace-Beltrami Spectrum, *Shape in Medical Imaging Workshop at MICCAI, Granada, Spain.*
92. Caiafa, CF., Saykin, A., Sporns, O., and **Pestilli, F.** (2017) Tensor encoding and decomposition of brain connectomes with application to tractography evaluation. *Neural Information Processing Systems (NIPS).* (Spotlight talk, Top 2% of all accepted submissions.)
93. Caiafa, CF., Cichocki A. **Pestilli, F.** (2017) A Sparse Tensor Decomposition with Multi-Dictionary Learning Applied to Diffusion Brain Imaging. *The Signal Processing with Adaptive Sparse Structured Representations (SPARS)*, Lisbon, Portugal.
94. Gugnani, S., Lu, X., **Pestilli, F.**, Caiafa, CF., Panda, D.K. (2017) MPI-LiFE: Designing High-Performance Linear Fascicle Evaluation of Brain Connectome with MPI. *IEEE 24th International Conference on High Performance Computing (HiPC),* Jaipur, India.
95. Caiafa, CF., and **Pestilli, F.** (2015) Sparse multiway decomposition for analysis and modeling of diffusion imaging and tractography. http://arxiv.org/abs/1505.07170
96. Zheng, C., **Pestilli, F.**, and Rokem, A. (2014) Deconvolution of High Dimensional Mixtures via Boosting, with Application to Diffusion-Weighted MRI of Human Brain. *Neural Information Processing Systems (NIPS).*
97. Zheng, C., **Pestilli, F.**, and Rokem, A. (2014) Quantifying error in estimates of human brain fiber directions using Earth Mover's Distance. *arXiv:1411.5271. (NeuroIPS — Workshop.)*

Peer-Reviewed Journal Articles In Progress

Special Issue in *Nature Methods* on International Data Sharing and Governance for Neuroscience

I am coordinating a special issue and a collection with the Editor of *Nature Methods*. The journal will take submissions about the topic of International Data Governance and Sharing for Neuroscience and Mental Health Data. The editors will either send the articles for review in Nature Methods or to best-fit journals in the Nature Publishing Group. The following articles are being prepared for the Special Issue that I am involved in as a co-author or lead (Senior) author.

1. Botes M, Mendes A, Huffman B, Fleischaker M, Staunton C, Townsend B, Ogendi P, Abdulrauf L, and Franco Pestilli, Proposed Article Title: A legal toolkit for international neurodata sharing.

2. Urchs S, Dai A, Jahanpour A, Wang M, Dugré M, Bhagwat N, McPherson B, van Heese EM, Laansma MA, d'Angremont E, Strasser-Kirchweger B, Maumet C, Grethe J, Taschereau-Dumouchel V, Zehl L, Devenyi G, Hutzler F, Hatton S, Hanke M, Jeanson F, Halchenko YO, Jahanshad N, Thompson PM, Pestilli F, van der Werf YD, Glatard T, Chakravarty M, Poline JB Neurobagel: building an international network for distributed data discovery and management
3. Porter, Collier, Hansen, Yi, Hershman, Ray, Monteiro, [....] Tovar Moll, Nichols, and Pestilli. Global Challenges and Research Capacity in Neuroimaging. [*Target Journal Nature Neuroscience*]
4. Heinsfeld, Botes, Grafft, Lee, Filima, and Pestilli ezGOV: AI platform to create, manage, and share neurodata governance documents. [*Target Journal Title: Nature Methods*.]
5. Stewart, Amorosino, Veraart, Heinsfeld, Bollmann, and Pestilli. Imaging Protocol Validation for Global Collaboration. [*Target Journal Title: Nature Methods*.]
6. Botes, Cameron, Porter, Hansen, Ochang, Collier, Mendes, Huffman, Eke, and Pestilli. A handbook on how to share neuroscience data across countries. [*Target Journal Title: Nature Methods*.]
7. Veraart, J., Heinsfeld, A., Caron, B., Girard, G., Theaud, G., Zemmoura, I., Hau, J., Glavin, K., Jordan, K.M., Pomiecko, K., Chamberland, M., Barakovic, M., Goyette, N., Poulin, P., Chenot, Q., Panesar, S.S., Sarubbo, S., Petit, l., and Descoteaux, M. & Pestilli, F., A data-driven variability assessment of brain diffusion MRI preprocessing pipelines. [*Target Journal Title: Nature Methods*.]
8. Cameron, Porter, Collier, Botes, Ochang, Pestilli, and Eke. Responsibility-by-Design (RbD) for global brain data governance. *Journal Title: Nature Methods*. [Special Issue on *Data Governance and Sharing*]
9. Wang M, McPherson, BC, Misic B, Pestilli F, Greenwood CMT, and Poline J-B. Clinical profile impacts the replicability of multivariate brain-behavioural associations. *Journal Title: Nature Methods*. BioArxiv; 2025 DOI: https://doi.org/10.1101/2025.10.08.674881

BRAIN CONNECTS Publication Package in *Nature* on New technology and data for brain connectivity

I am coordinating the first Publication Package with the Editor of Nature in Collaboration with Hongkui Zheng and Forrest Collman (Allen Institute), Anastasia Yendiki (MGH), and others. The journal will take submissions related to the datasets, discoveries and technologies being developed as part of brain-connects.org. The editors will either send the articles for review to Nature, Nature Methods, Nature Neuroscience or other best-fit journals in the Nature Publishing Group. The following articles are being prepared for the Publication package that I am involved in as a co-author or lead (Senior) author. Overall, we are coordinating over 50 articles for this publication package.

10. Heinsfeld, Grafft, Lee, Filima, and Pestilli. Intelligent infrastructure for Neuroscience: An agentic system integrated with the major neuroscience platforms and data archives. [*Target Journal Title: Nature Methods*.]
11. Amorosino, G., Caron, B., Kwon, J., Carrasco, M., Reid, R.C., Lenglet, C., Zimmermann, J., Yacoub, E. Ugurbil, K., Heilbronner, S.R., & Pestilli. A retinotopic wiring principle of the human brain. bioRxiv 2026.04.03.716412; doi: https://doi.org/10.64898/2026.04.03.716412 *Journal Title: Nature.* [Publication Package: BRAIN CONNECTS]
12. Tendler BC, Warrington S, Selim MK, Wu W, Adriany G, Auerbach EJ, Bratch A, Farooq H, Harel N, Heilbronner S, Jbabdi S, Jungst S, Lenglet C, Manea AMG, Moeller S, Pestilli F., Pisharady PK, Ugurbil K, Waks M, Yacoub E, Sotiropoulos SN, Miller KL, and Zimmermann J. Diffusion-weighted steady-state free precession imaging in the ex vivo macaque brain on a 10.5T human MRI scanner. *Journal Title: Nature Methods*. BioRxiv 2025.12.12.694017; doi: https://doi.org/10.64898/2025.12.12.694017

Other Journal Articles In Progress

13. Porter, Church, and Pestilli. White matter's role in learning, academic skill acquisition, and maintenance. Journal Title: *Trends in Cognitive Science*. In review
14. Kwon, Amorosino, and Pestilli. Ensemble White Matter Tract Segmentation. *Journal Title: Imaging Neuroscience*.
15. Leong J.K. & Pestilli, F. (Preregistered Report, Accepted In Principle. Currently Drafting Manuscript, 80% completed.) Title of Article: Monetary Incentives Change Visual Appearance. *Journal Title: Psychological Science.*
16. Johnson EC, Dichter B, Zappulla F, Feng D, Kosma M, Nguyen T, Gunalan K, Villafane-Delgado M, Kitchell L, Chu E, Ritter P, Wester B, Pestilli F., & Yatsenko D. Title of Article: SciOps: Achieving Productivity and Reliability in Data-Intensive Research. *Journal Title: Nature Methods*. https://arxiv.org/abs/2401.00077

TEACHING

Areas of special interest and accomplishments

At The University of Texas, I have been a key member of a task force that developed a new major in Data Science for the Social and Behavioral Sciences. For the Major, I developed the two foundations courses, namely, Foundations in Behavioral Data Science I and II. I also developed a study abroad program in Geneva in Cognitive Neuroscience. In my teaching. My teaching is centered on bridging the gap between scientific research and the classroom. I aim to integrate cutting-edge discoveries, modern analytical methods, and contemporary debates into undergraduate and graduate curricula while ensuring students develop a deep understanding of foundational scientific principles. I view effective teaching as a balance

between enduring knowledge and innovation, preparing students to critically evaluate evidence and contribute to scientific progress. My pedagogy is structured around the PAT framework; Practical, Active, and Theoretical learning. I emphasize hands-on engagement with original research, data analysis, and computational tools, enabling students to build scientific literacy, statistical reasoning, and data science competence. Active learning is central to my courses, with discussions, problem-based exercises, and predictive reasoning tasks that move students beyond memorization toward conceptual understanding. I am strongly committed to inclusive, open, and reproducible education, particularly through the development of open educational resources. My overarching goal is to equip students with the analytical, computational, and conceptual skills necessary to thrive in an increasingly data-driven scientific landscape.

The University of Texas

Semester	Year(s) taught	Course title	Level	Enrollment
Fall	2024-2026	Cognitive Neuroscience	Undergraduate	35
Maymester	2025-2026	Cognitive Neuroscience Abroad (Geneva, Switzerland)	Undergraduate	20/30
Spring	2025-2026	Education Abroad in Switzerland (LA 119)	Undergraduate	20/30
Spring	2023-2026	Foundations of Behavioral Data Science II	Undergraduate	35
Fall	2022-2024	Foundations of Behavioral Data Science I	Undergraduate	35
Spring	2021	Digital Neuroanatomy (PSY 394P)	Graduate	20
Fall	2020–2021	Lab in Cognitive and Computational Neuroscience	Graduate	20
Fall	2020–2025	Scientific Rigor and Transparency (T32 program course)	Graduate	30
Spring	2020-2024	Cognitive Brain and Behavior Area Seminar	Graduate	20

Indiana University

Semester	Year(s) taught	Course title	Level	Enrollment
Spring	2015, 2016	Statistics	Undergraduate	35
Fall	2017-2019	Cognitive Psychology	Undergraduate	45
Spring	2017-2020	Cognitive Psychology	Undergraduate	45

Stanford University

Semester	Year(s) taught	Course title	Level	Enrollment
Spring	2014	Statistics and data science for neuroimaging	Graduate	35
Fall	2013	Statistics and data science for neuroimaging	Graduate	35

Hunter College (New York)

Semester	Year(s) taught	Course title	Level	Enrollment
Spring	2002	Cognitive Psychology	Graduate	60

Mentorship and supervision

Start	Finish	Name	Supervision Type	Program Type	Position obtained after leaving the lab
2025	current	Marietjie Botes	Postdoctoral fellow	Neuroscience and Law	–
2025	current	Blaire Porter	Postdoctoral fellow	Developmental Neuroscience	–
2024	current	Gabriele Amorosino	Postdoctoral fellow	Computational Neuroscience	–
2023	current	Kimberly Ray	Postdoctoral fellow	Cognitive Neuroscience	–
2025	current	Stephen Kiilu	PhD Student	Cognitive Neuroscience	–

2024	current	Junbeom Kwon	PhD student	Cognitive Neuroscience	–
2021	current	Anibal Heinsfeld	PhD Student	Computer Science	–
2024	2024	Ashley Stewart	Postdoctoral fellow	Computer Science	Research Fellow the University of Queensland
2023	2024	Om Pandey	MS student	Computer Science	Engineer at the Depository Trust & Clearing Corporation (DTCC)
2023	2024	Kunjal Shah	MS Student	Computer Science	Engineer at NVIDIA
2021	2023	Giulia Berto	Postdoctoral fellow	Data Science	Data Scientist at OROBIX
2020	2022	Sandra Hanekamp	Postdoctoral fellow	Clinical Neuroscience	Application Scientist at NordicNeuroLab
2018	2022	Sophia Vinci-Booher	Postdoctoral fellow	Developmental Neuroscience	Assistant Professor, Vanderbilt University
2021	2024	Peer Herholz	Postdoctoral fellow	Computational Neuroscience	Research Assistant Professor, Northwestern University
2020	2023	Guiomar Niso	Postdoctoral fellow	Computational Neuroscience	Assistant Professor, The Cajal Institute, Spain
2016	2024	Bradley Caron	Graduate student and Postdoctoral fellow	Cognitive and Computational Neuroscience	Machine Learning and AI Engineer, Novartis)
2015	2022	Brent McPherson	Graduate student	Cognitive and Computational Neuroscience	Postdoctoral Fellow, McGill University
2015	2021	Daniel N. Bullock	PhD student	Cognitive and Computational Neuroscience	Postdoctoral Fellow, University of Minnesota
2019	2020	Josiah Leong	Postdoctoral fellow	Vision and Psychophysics	Assistant Professor, University of Arkansas
2019	2020	Lindsey Kitchell	PhD student	Cognitive and Computational Neuroscience	Research Scientist, Johns Hopkins University
2016	2018	Cesar Caiafa	Postdoctoral fellow	Cognitive and Computational Neuroscience	Assistant Professor, University of Buenos Aires

Other graduate students and postdocs mentored

2019-2020	Jasleen Jolly,	Graduate student, Oxford University, U.K.
2016-2020	Ilaria Sani,	Postdoc, Rockefeller University, NY.
2017	Shashank Gugnani,	Graduate student, Computer Science, Ohio State University, OH
2017-2018	Vineet Raichur,	Postdoc, Psychology, University of Michigan, MI
2016-2019	Robert Punzniak,	Graduate student, University of Magdeburg, Germany.
2015	Julien Möhlen,	Undergraduate student, Oxford University, Oxford, UK.
2014-2017	Tanya Glozman,	Graduate student, Electrical Engineering, Stanford University, CA.
2012-2014	Hiromasa Takemura,	Postdoc, Psychology, Stanford University, CA.
2013-2014	Sara Aijna,	Medical Student, Oxford University, UK
2013-2014	Charles Zheng,	Graduate Student, Statistics, Stanford University, CA.
2013-2014	Jesse Gomez	Graduate Student, Neuroscience, Stanford University, CA.
2013-2014	Brian Allen	Graduate Student, Psychology, University of Wisconsin Madison, WI.
2010	Goldbarg Saber,	Graduate Student, Neuroscience, New York University, NY.

Visiting Lecturer (indicate university / organization and dates)

2017 Visiting Professor University of Trento Italy

Undergraduate students research supervision

Start	Finish	Name	Program Type	Field	Position obtained after leaving the lab
2025	2026	Austin J	Leigh	Neuroscience	current
2025	2026	Sydney	Fulton	Data science I	current
2025	2025	Karen Herrera	Women in Neuroscience	Neuroscience	PhD Student
2025	2025	Anna Bostoganashvili	Women in Neuroscience	Neuroscience	Research Assistant New York University
2023	2026	Alisha Flexwala	Undergraduate Assistant	Psychology	-
2023	2025	Ananya Gosain	Undergraduate Assistant	Psychology	Research Assistant
2024	2025	Daniela Reyes	Data Science Intern	Psychology	Sales Development Representative
2022	2024	Sohmee Kim	Women in Neuroscience	Neuroscience	PharmD student, The University of Texas
2022	2023	Jas M Dinh	Data Science Intern	Psychology	Research Assistant
2022	2023	Catherine Leal	Data Science Intern	Psychology	Master's Student in Data Science
2022	2023	Mohammed Mehboob	Data Science Intern	Psychology	Adobe Employee
2020	2022	Elizabeth Berquist	Project Coordinator	Psychology	Research Assistant
2020	2022	Wesley Wolf	Undergraduate assistant	Psychology	Medical Student
2018	2021	Ricardo Fabrega	Undergraduate assistant	Psychology	Medical Student
2019	2020	David Hunt	Undergraduate assistant	Psychology	Research Assistant
2017	2018	Yiming Qian	Undergraduate assistant	Neuroscience	PhD student, Pennsylvania State University
2016	2017	Shiloh Cooper	Undergraduate assistant	Neuroscience	PhD student, Northwestern University
2016	2017	Andrew Patterson	Undergraduate assistant	CS	PhD student, University of Alberta
2016	2017	Aman Arya	Undergraduate assistant	CS	Master's student, Georgia Institute of Technology
2016	2018	Stephen O'Riley	Undergraduate assistant	CS	United States Intelligence Community

AWARDS AND HONORS

Awards

2026 College-wide Award Candidate, The College of Liberal Arts, The University of Texas at Austin, selected for the UT Austin President's Research Impact Award
2023 Honorary Distinction, Society of African Neuroscientists: Johannesburg, ZA
2022 Gift, The Kavli Foundation, International Data Governance in Neuroscience
2017 Fellow Psychonomics Society
2016 Janet Taylor Spence Award for Transformative Early Career Achievements Association for Psychological Science
2016 Fellow Association for Psychological Science
2016 Japanese Society for Neuroscience, Early Career Travel Award.
2016 Exceptional Reviewer Recognition. Journal of Vision. The Association for Research in Vision and Ophthalmology
2016 IU Nomination for the Blavatnik Award (only one nominee yearly for Indiana University).

Fellowships

2023 Faculty Travel Fellowship for the Development of A Study Abroad Program in Psychological Science, Texas Global Fellowship, The University of Texas.
2022 Open Science Fellowship, for the contribution to open scholarly courses (Course: Foundations of Psychological Data Science), The University of Texas Libraries.
2019 Microsoft Faculty Fellowship (15 selected worldwide, the only awardee not in CS nor in Eng).
2017 Fondazione Bruno Kessler, University of Trento, Italy.
2012 Department of Computer Science, University of Verona, Italy.
2011 Postdoctoral Fellowship, Japanese Society for the Promotion of Science (JSPS), Riken, Japan.
2009 Fellowship, Italian Academy for Advanced Studies, Columbia University, NY.
2008 Computational Neuroscience: Vision – Cold Spring Harbor Laboratory, NY.
2006 Summer School of Visual Neuroscience – University of Gießen, Germany

2002–2006 MacCracken Fellowship, Graduate School of Arts and Sciences, New York University, NY.
2001 Graduate Exchange Program, University of Rome La Sapienza, Italy.
1999 Undergraduate Exchange Program, University of Rome La Sapienza, Italy.
1999 European Union Students Exchange Program, University of Rome, Italy.
1998 Master Thesis National Agency for New Technologies, Energy and the Environment, Italy.

Honors

2000 *Summa cum laude*, University of Rome La Sapienza, Italy.

Travel grants

2015 National Academy of Sciences, Sackler Colloquium, Washington, D.C.
2008, 2009 Columbia University, Department of Neuroscience.
2009 Conference on Cognitive and Neural Systems, Boston University, MA.
2005 European Conference of Visual Perception, Arezzo, Italy.
2003, 2007 Graduate School of Arts and Sciences, New York University, NY.

Research grants

Active.

Title: BRAIN CONNECTS: The Axonal Projectome EXchange (APEX)
Source: *National Institute of Health*
Lead Institution: The University of Texas
Total Award Amount: $9,485,000
Dates: 09/2024-08/2029
PI/PD: Franco Pestilli
MPI: Yendiki, A., Massachusetts General Hospital/Harvard Medical School
Co-I: Fair, D. Lenglet, C., University of Minnesota, Reid, C., Ng, L., Allen Institute

Title: Developing an international governance framework to advance global brain and mental health data equity and innovation
Source: *The Wellcome Trust.*
Location: The University of Texas
Total Award Amount: $2,643,470
Dates: 06/01/23-05/30/2027
PI Franco Pestilli.
co-Is D. Eke (De Montfort University), T. Nichols (Oxford University), R. Chavarriaga (Zurich Technological University), A. Ihunwo (University of Witwatersrand), F. Tovar Moll (D'Or Institute)

Title: Center for Mesoscale Connectomics: A Multimodal, Cross-species Approach
Source: *NIH BRAIN Initiative Connectivity across Scales (BRAIN CONNECTS)*
Lead Institution: The University of Minnesota
Requested Amount: $16,684,090
Dates: 04/01/2023-03/31/2028
PI: Kamil Ugurbil
Co-PI(s): Heilbronner, S., Fair, D., Miller, K., Akkin, T., Zimmermann, J., Bi, G., Lau, P., Xu, F., Eberly, L., Dukes, A., Jbabdi, S., Sotiropoulos, S., Lenglet, C., Yacoub, E., Harel, N., Pengo, T., Kumar, P., Sanders, M., Schilling, K., Mitra, P., Pestilli, F.

Title: Extending ezBIDS, NiiVue and dcm2niix for user-friendly cloud-based integration and visualization
Source: *National Institute of Health*
Location: The University of South Carolina
Total Award Amount: $2,039,629
Dates: 06/01/23-5/30/26
PI: C. Rorden Co-I: F. Pestilli

Title: CRCNS: Dense sampling of brain function and structure to evaluate neural mechanisms of learning in early childhood
Source: *National Science Foundation*
Lead Institution: Vanderbilt University
Requested Amount: $1,250,000
Dates: 08/01/23 - 07/31/26
PI/PD: Sophia Vinci-Booher
Co-PI(s): Yu, C., Booth, J., Kay, K., Pestilli, F.

Title: Risk Factors for the Prospective Development of Alcohol Use Disorders in Young Adults with Bipolar Disorder and Typically Developing Young Adults.

Source: NIH NIAAA
Total Award Amount: $3,813,135
Dates: 01/2023-12/2028
PI/PD: Elizabeth Lippard
Co-I: Pestilli, F.

In review, being resubmitted or pending.

Title: Clarifying the axonal connectivity of the visual system
Source: *National Institutes of Health*
Lead Institution: The University of Texas
Requested Amount: $2,351,000
Dates: 09/01/2026-08/31/2031
PI/PD: Franco Pestilli
Co-PI(s): Heilbronner, S., Reid, C.,

Title: White matter meta-analysis tools
Source: *National Institutes of Health*
Lead Institution: The University of Texas
Requested Amount: $1,567,232
Dates: 09/01/2026-08/31/2031
PI/PD: Franco Pestilli; Kimberly L Ray (Contact)
Co-PI(s): Angela Laird,

Title: Collaborative Research: NSF-IUSE Integrating course-based research experience and cloud computing to promote inclusivity in data neuroscience education
Source: *National Science Foundation*
Lead Institution: Lawrence Technological University
Requested Amount: $1,515,059
Dates: 09/01/24-08/31/27
PI/PD: Franco Delogu
Co-PD(s)/Co-PI(s): Kiernan, J., Collins, S., Pestilli, F.

Title: Center for Understanding Holistic Hippocampal Function
Source: *National Institute of Health*
Lead Institution: The University of Texas
Requested Amount: $15,535,399
Dates: 04/01/24-03/31/29
PI/PD: Colgin, L.
Co-PD(s)/Co-PI(s): Drew, M., Dunsmoor, J., Harris, K., Hofmann, J., Jabbi, M., Kuwajima, M., Pestilli, F., Preston, A., Wei, X.

Completed.

Title: A community-driven development of the brain imaging data standard (BIDS) to describe macroscopic brain connections
Source: *NIH NIMH BRAIN Initiative*
Location: The University of Texas
Total Award Amount: $750,000
Dates: 09/01/21-08/31/2023
PI F. Pestilli. co-Is R. Poldrack (Stanford University), A. Rokem (University of Washington), E. Satterthwaite (University of Pennsylvania)

Title: CRCNS US-France Data Sharing Proposal: Collaborative: Advancing neuroscientific discovery and training by lowering the barrier of entry to network neuroscience via open science
Source: *National Institute of Health (R01 NIBIB)*
Location: Indiana University and the University of Texas
Total Award Amount: $446,021
Dates: 09/01/19-08/31/2023
PI R. Betzel. Co-PI F. Pestilli, D. Bassett (University of Pennsylvania), M. Vico-Fallani (Marseille, France).

Title: A personalized approach to predicting long-term neuropsychiatric outcomes in TBI.
Source: *U.S. Department of Defense (special program BIG DATA).*
Location: Indiana University and the University of Texas
Total Award Amount: $750,000
Dates: 08/01/20-07/30/2024
PI N. Port, co-PI F. Pestilli.

Title: CRCNS US-France Data Sharing Proposal: Advancing MEEG training & discovery via open science & cloud computing
Source: *National Institute of Health (R01 NIBIB)*
Location: Indiana University and the University of Texas
Total Award Amount: $744,000
Dates: 09/15/20-08/31/23
PI A. Puce. Co-I F. Pestilli, N. George, M. Chaumon, L. Hugueville (Paris, France).

Title: Advancing science and education via human-AI cooperation on data, analyses, and publications.
Source: *Microsoft Investigator Fellowship, Gift by Microsoft Corporation.*
Location: The University of Texas
Total Award Amount: $200,000
Dates: 01/01/20
PI F. Pestilli.

Title: CRCNS US-German Data Sharing Proposal: DataLad - a decentralized system for integrated discovery, management, and publication of digital objects of science
Source: *National Science Foundation*
Location: Indiana University and the University of Texas
Total Award Amount $152,802 to Pestilli
Dates: 09/01/19-08/31/2023
PI F. Pestilli. PI Y. Halchenko (Darthmouth) M. Hanke (Jülich, Germany).

Title: NCS-FO: Connectome mapping algorithms with application to community services for big data neuroscience.
Source: *National Science Foundation (special program The BRAIN Initiative).*
Location: Indiana University and the University of Texas
Total Award Amount: $650,000
Dates: 09/01/17-08/31/2023
PI F. Pestilli. co-PI E. Garyfallidis, R. Herschel (Indiana University), Ivo Dinov (University of Michigan), Lei Wang (Northwestern).

Title: SUPPLEMENT: Advanced Computational Neuroscience Network (ACNN).
Source: *National Science Foundation (Special Program for Big Data)*
Location: The University of Texas
Total Award Amount: $60,000
Dates: 09/01/20-08/31/22
PI F. Pestilli. co-PI S. Ressl.

Title: BD Hubs: Collaborative Proposal: Midwest: Midwest Big Data Hub: Building Communities to Harness the Data Revolution.
Source: *National Science Foundation (special program BIG DATA).*
Location: Indiana University
Total Award Amount: $339,997
Dates: 06/01/19-05/31/2023
PI V. Pentchev, co-PI I. Kouper, (Indiana University), co-PI F. Pestilli (PI until Summer 2021)

Title: Advanced Computational Neuroscience Network (ACNN).
Source: *National Science Foundation (Special Program for Big Data)*
Location: The University of Texas (in transfer)
Total Award Amount: $332,000
Dates: 09/01/16-08/31/21
PI F. Pestilli. co-PI O. Sporns, A. Saykin, (Indiana University), Lei Wang (Northwestern University, IL).

Title: Brain-Life.org: A public platform for reproducible biomedical science imaging.
Source: *XSEDE Allocation, National Science Foundation (passthrough).*
Location: Indiana University and the University of Texas
Total Award Amount (in credits): $617,039
Dates: 2018/01/01-12/31
PI F. Pestilli.

Title: Workshop on Learning in Humans and Machines.
Source: *Association for Psychological Science & Psychonomics Society (Estes Fund for Teaching and Education).*
Total Award: $20,000
Dates: 12/01/17-05/30/2018

PI Pestilli F., co-PI Smith, L., Goldstone, R.

Title: Learning: Brains, Machines and Children
Source: *Indiana University, Area of emerging research.*
Total Award: $3,000,000
Dates: 05/01/17-04/30/2020
PI Smith, L., co-PI Sporns, O., Crandall, D., White, M., James, K., Goldstone, R., Landy, D., Pestilli, F.

PRESENTATIONS

Invited talks and keynotes

1. "Educational course: A tutorial on brainlife.io" Annual Meeting of the Organization for Human Brain Mapping, Bordeaux, France. Jun 2026
2. "Mapping the connectivity of the human brain in vivo". EPFL - Swiss Federal Technology Institute of Lausanne. Lausanne, Switzerland. May 2026
3. "Mapping the connectivity of the human brain in vivo". Labroots - Neuroscience Virtual Event Series 2026. Virtual event organized by the NIH BRAIN Initiative. April 2026
4. "Understanding human mesoscopic connections". Annual Interdisciplinary Conference. Jackson, Wyoming. January 2026
5. "Intelligent infrastructure to connect major data projects across the world," EBRAINS Summit, December 2025
6. "Intelligent infrastructure for neuroscience". BRAIN CONNECTS PI Meeting. San Diego, California. ovember 2025
7. "International Data Sharing and Governance", Australian National Imaging Facility, Brisbane, Australia, July 2025
8. "Putting Big Data to Good Use in Neuroscience". Princeton University. New Jersey, US. March 2025
9. "Putting Brain Data and Cloud Technology To Good Use." Keynote. Ospedale San Raffaele. Section of Neuroscience Annual Retreat. Milan, IT. May 2025.
10. "The Visual White Matter Network". Annual Interdisciplinary Conference. Jackson, Wyoming. January 2025
11. "Introduction to Neuroimaging and brainlife.io". "Structural MRI- Background and Theory". "Introduction to MRI Physics". African Brain Data Network Academy. Nairobi, Kenya. December 2024
12. "Putting Big Data to Good Use in Neuroscience". Neuroimaging Colloquium. Boston University, MA, US. October 2024
13. "Scientific Transparency and Rigor" T-32 Lecture Series. The University of Texas, Austin. October 2024.
14. "Data Management and Visualization for Big Neuroscience Datasets". SfN Satellite BRAIN CONNECTS PI Meeting. Chicago, Illinois. 2024
15. "Introduction to Neuroimaging and brainlife.io". "Structural MRI- Background and Theory". "Introduction to MRI Physics". International Neuroinformatics Coordination Facility Assembly. Austin, Texas. September 2024
16. "Putting brain data and cloud technology to good use." MCCHE Precision Convergence Webinar Series. McGill University. 2024
17. "Putting brain data and cloud technology to good use." Colloquium. University of Pescara-Chieti. Chieti, Italy. July 2024.
18. "Understanding the human white matter." International Symposium on Brain Structure and Function. National Institute for Physiological Sciences, Okazaki, Japan. July 2024.
19. "Putting Brain Data and Cloud Technology To Good Use." Colloquium. Advanced Telecommunications Research Institute International (ATR). Kyoto, Japan. July 2024.
20. "Putting Brain Data and Cloud Technology To Good Use." Human brain mapping and function symposium. Department of Psychology, Yonsei University. Seoul, South Korea. June 2024.
21. "Putting Brain Data and Cloud Technology To Good Use." Department of Psychology, Seoul National University. Seoul, South Korea. June 2024.
22. "Putting Brain Data and Cloud Technology To Good Use." Department of Neurology, Rockefeller University. New York, NY. May 2024.
23. "Putting Brain Data and Cloud Technology To Good Use." Keynote. Annual Meeting of the Italian Association for Neuroimmunology, Cagliari, Italy. May 2024.
24. "International data governance and responsible brain innovation". The U.S. National Academies of Sciences, Engineering, and Medicine (NASEM). Virtual. April 2024
25. "Understanding the network of human brain connections". Annual Interdisciplinary Conference. Jackson, Wyoming. February 2024
26. "Understanding the human white matter." Colloquium. Department of Neurology. Baylor College of Medicine, Houston, TX. November 2023.
27. "Understanding the human white matter." Department of Neuroscience. University of Connecticut Medical School, Farmington, CT. October 2023.
28. "Scientific Transparency and Rigor" T-32 Lecture Series. The University of Texas, Austin. October 2023.
29. "Free cloud platform for secure neuroscience data analysis." International Brain Initiatives, Satellite Event at the Society for Neuroscience Annual Meeting. Washington, DC. October 2023.
30. "Neuroimaging and Neuroinformatics using brainlife.io." Keynote. Advanced Computational Neuroscience Network, Big Data Workshop, Birmingham, AL. May 2023.
31. "Neuroinformatics and data science: challenges and opportunities for global neuroscience" Society of Neuroscientists of Africa (SONA), Bi-Annual Meeting, Johannesburg, South Africa, July 2023.
32. "Why White Matter?" Colloquium. Smith-Kettlewell Eye Research Institute, San Francisco, CA. November 2022.

33. "Technology to improve the work of scientists." Advanced Computational Neuroscience Network, Big Data Workshop, Austin, TX. September 2022.
34. "An open, decentralized, and interoperable cloud computing platform." Wellcome Institute for Neuroimaging, Oxford University, UK. June 2022.
35. "Accelerating brain discovery via cloud computing and smart infrastructure." Dell Medical Diagnostic Medicine, The University of Texas at Austin, TX, June 2021

Conference Presentations and Panels

36. "Intelligent Infrastructure and AI" EBRAINS Summit and INCF Assembly, December 2025.
37. "Intro to AI" University of Texas. Texas, US. February 2025.
38. "Developing an international data governance framework for brain data." Annual Meeting of the Organization for Human Brain Mapping. Seoul, South Korea. June 2024.
39. "Scientific Transparency and Rigor" T-32 Lecture Series. The University of Utah, N.I.H. Workshop on Statistical Methods for Neuroimaging, Salt Lake City, UT. May 2024.
40. "Scientific Transparency and Rigor" T-32 Lecture Series. The University of Texas, Austin. October 2024.
41. "International data governance and responsible brain innovation" The U.S. National Academies of Sciences, Engineering, and Medicine (NASEM). Panel on Building Capacity for Scientists in South East Asia. Virtual Event. April 2024.
42. "Understanding the network of human brain connections," Annual Interdisciplinary Conference. Jackson, WY. February 2024.
43. "Visualizing data on brainlife.io" BrainHack Boston, Massachusetts General Hospital/Harvard Medical School, Boston, MA (Virtual). November 2023.
44. "Global brain platforms; Implications for publishing neuroscience" International Neuroinformatics Coordination Facility Assembly. Virtual Event, September 2023.
45. "Advancing brain and mental health research via global data sharing and governance." International Brain Initiative, Satellite Event at the Society for Neuroscience Annual Meeting. Washington, DC. November 2022.
46. "An open, decentralized, and interoperable cloud computing platform." International Neuroinformatics Coordination Facility Assembly. Virtual Event, September 2021.

Invited Talks (Community and Public Interest)

47. "Putting Brain Data and Cloud Technology To Good Use." COLA Alumni Event, UTNY Campus, New York, NY. May 2024.
48. "International data governance and brain innovation" Developing a Brain Index to address health. New York, NY. May 2024
49. "Putting Brain Data and Cloud Technology To Good Use." COLA Alumni Event, Houston, TX. May 2023.
50. "Putting Brain Data and Cloud Technology To Good Use." Dell Medical School Dean's Retreat. Austin, TX. May 2023..

Grants, mentions and awards to my trainees

Source:	*Graduate School Office of Postdoctoral Affairs*
Location:	The University of Texas at Austin
Type of Award:	Postdoctoral Scholars Travel Grant
Dates:	2026
Individual:	Gabriele Amorosino (Postdoc). Mentor. F. Pestilli.

Source:	*UT Austin Graduate School.*
Location:	The University of Texas at Austin
Type of Award:	Distinguished Graduate Fellowship
Dates:	2026
Individual:	Yang Zhang (Graduate student). Mentor. F. Pestilli.

Source:	*UT Austin College of Liberal Arts.*
Location:	The University of Texas at Austin
Type of Award:	Rising Researcher Award
Dates:	2026
Individual:	Sydney Fulton (undergrad). Mentor. F. Pestilli.

Source:	*UT Austin College of Liberal Arts.*
Location:	The University of Texas at Austin
Type of Award:	Rising Researcher Award
Dates:	2026
Individual:	Sydney Fulton (undergrad). Mentor. F. Pestilli.

Source:	*Department of Psychology.*
Location:	The University of Texas at Austin
Type of Award:	Dean's Distinguished Graduates award. Psychology Department Nominees

Dates: 2026
Individual: Alisha Flewala (undergrad). Mentor. F. Pestilli.

Source: *Center For Perceptual Systems.*
Location: The University of Texas at Austin
Total Award Amount: $5,000
Type of Award: Research Excellence Award.
Dates: 2026
PI: Gabriele Amorosino (Postdoc). Mentor. F. Pestilli.

Source: *National Science Foundation*
Location: The University of Texas at Austin
Total Award Amount: $160,000
Type of award: NSF Postdoctoral Fellowship
Dates: 08/01/2025-07/31/2027
PI Blaire Porter. Sponsor F. Pestilli.
Project Title: Postdoctoral Fellowship: SPRF: The Role of White Matter in Learning and Retention of Knowledge Across Academic Interruptions

Source: *National Institute of Health - NINDS*
Location: The University of Texas at Austin
Type of award: *NIH Postdoctoral Fellowship*
Total Award Amount: $344,887
PI Antonio Fernandez. Sponsor F. Pestilli.
Project Title: Blueprint DSPAN Award (K00): Testing the necessary neural mechanisms and network connections for attention to modulate behavior in humans.

Source: *The Wellcome Trust.*
Location: University College London
Total Award Amount: £820,936
Dates: 06/15/22-06/14/2027
PI S. Ajina.
Sponsors: F. Pestilli (The University of Texas at Austin), Johansen-Berg, H., Jbabdi, S., Bridge, H., (Oxford University), Leff, A. (University College London; UCL), Huxlin, K., (University of Rochester).
Project Title: Targeting residual visual pathways to develop effective rehabilitation for patients with hemianopia

Source: *National Science Foundation*
Location: Indiana University
Total Award Amount: $138,000
Type of award: *NSF Postdoctoral Fellowship*
Dates: 09/01/2020-08/31/2022
PI Sophia Vinci-Booher. Sponsor F. Pestilli.
Project Title: SBE Postdoctoral Fellowship: Harnessing machine learning and cloud computing to test biological models of the role of white matter in human learning

Source: *Vision Science Society.*
Type of award: Vision Science Society Elsevier Travel Award.
Dates: 2021
PI: Sophia Vinci-Booher (Postdoc). Mentor. F. Pestilli.

Title: *SBE Postdoctoral Fellowship*.
Source: *The National Science Foundation*
Dates: 2020
PI: Sophia Vinci-Booher (Postdoc). Mentor. F. Pestilli.

Title: ARVO Travel Award.
Source: *Association for Research in Vision and Ophthalmology.*
Dates: 2021
PI: Jasleen Jolly (Ph.D. student). Mentor. H. Bridge and F. Pestilli.

Title: Sharon Stephens Brehm Excellence in Neuroscience Award.
Source: *Indiana University.*
Dates: 2020
PI: Ricardo Stuck (IU Undergraduate). Mentor. F. Pestilli.

Title(s): Data Science for the Public Good (DSPG) Young Scholars program 2020
UW eScience Institute Neurohackacademy Summer Scholar 2019
NIH T32 Clinical Translational NIMH Predoctoral Training Fellowship
IU Department of Psychological and Brain Sciences travel award
Center for Information and Neural Networks (CiNet) Winter fellowship (JAPAN)
IU Department of Psychological and Brain Sciences fellowship
PI: Daniel Bullock (IU PhD Student). Mentor. F. Pestilli.

Title: Cloud computing to advance big data neuroscience research.
Source: *Microsoft Research. Postdoctoral Fellowship.*
Location: Indiana University.
Dates: 2019.
PI: Josiah Leong. Mentor: F. Pestilli.

Title: Travel Scholarship for Women in Science.
Source: *Indiana University.*
Location: MICCAI 2018, Granada, SPAIN.
Dates: Summer 2018
PI: Lindsey Kitchell. Mentor. F. Pestilli.

Title: Research Undergraduate Experience (RUE).
Source: *National Science Foundation.*
Location: Indiana University.
Dates: Summer 2017
PI: Aman Arya (University of Washington Undergraduate). Mentor. F. Pestilli.

Title: Research Undergraduate Experience (RUE).
Source: *National Science Foundation.*
Location: Indiana University.
Dates: Summer 2017
PI: Stephen O'Riley (High-school Student, currently IU Undergraduate). Mentor. F. Pestilli.

Title: Summer Research Grant.
Source: *Hutton Honors College.*
Location: Indiana University.
Dates: Summer 2016
PI: Shiloh Cooper (IU Undergraduate). Mentor. F. Pestilli.

Title: Summer *STARS Scholarship*.
Source: Indiana University.
Location: Indiana University.
Dates: Summer 2016
PI: Ian Chavez (IU Undergraduate). Mentor. F. Pestilli.

Software and data-sharing projects

Brain anatomy, white matter, and connections

brainlife.io Open platform for data, algorithms with seamless deployment on cloud systems and high-performance clusters for collaborative reproducible research.
brainlife.io | github.com/brainlife | hub.docker.com/u/brainlife

The Brain Imaging Data Structure
https://pestillilab.github.io/bids-connectivity

The NIH National Data Coordination Center for the funding program BRAIN CONNECTS is developed and hosted by my lab
https://brain-connects.org/

ENCODE Technology for representing brain connectomes.
github.com/brain-life/encode

LiFE Technology for mapping, evaluation and statistical inference in human connectomes.
https://francopestilli.github.io/life

MBA Code to generate accurate and reproducible brain anatomy images.
https://github.com/francopestilli/mba

LiFE_scripts Code for sharing scientific methods and knowledge on brain mapping.
https://github.com/francopestilli/life_scripts

Brain function, activity, and behavior

VISTASOFT Code for brain mapping and analysis of Diffusion and BOLD imaging.
https://github.com/francopestilli/vistasoft

mrTools Code for analysis of brain activity and behavior.
http://gru.stanford.edu/doku.php/mrTools/overview

MGL Code for measuring human behavior and designing experimental protocols.
http://gru.stanford.edu/doku.php/mgl/overview

ADMINISTRATIVE AND PROFESSIONAL SERVICE

University-level service

The University of Texas at Austin

Executive Committee	Interdisciplinary Neuroscience Program,		2026 –
Advisory Board Member	Center for Open Source Software,		2023 –
Advisory Board Member	ACCESS-Ci-org,		2022 –
Advisory Board Member	Center for Theoretical & Computational Neuroscience,		2021 –
Advisory Board Member	Center of Biomedical Research Support	"	2020 –

Indiana University, Bloomington

Executive Board Member	Program in Neuroscience		2019, 2020
Advisory Board Member	Network Science Institute	"	2019, 2020

Department-level service

The University of Texas at Austin

Member, Department of Psychology, Committee to develop new directives for the evaluation of faculty progress and output (T&P), 2022 – 2023

Member, Department of Psychology, Committee to develop the Behavioral Data Science Major, 2020 – 2024

Indiana University, Bloomington

Member, Department of Psychological and Brain Sciences, Space and Equipment Allocation Committee, 2016-2020
Ad Hoc Member, Department of Psychological and Brain Sciences, Executive Committee, 2016-2017.
Member, Department of Psychological and Brain Sciences, Technological Advisory Committee, 2015-2018
Member, Search Committee Developmental Area (*Successful hire of* Richard Betzel as IU faculty), 2017
Member, Search Committee Social PsychologyArea (*Successful hire of* Amanda Diekman and Kurt Hugenberg). 2016
Member, Executive Board, Indiana University Program in Neuroscience (PNS) 2018-2020
Member, Advisory Board, Indiana University Network Science Institute (IUNI). 2018-current
Manager, Indiana University Neuroimaging Center Database Management System. 2015-2017
Member, Hutton Honors College Selection Committee Undergraduate Awards, Indiana University 2016, 2018
Selected Rhodes Scholar Morgan Mohr honorsandawards.iu.edu/search-awards/honoree.shtml?honoreeID=8041

Professional Service

Editorial work

Editorial Board Member,	Journal: Scientific Data	*Springer: Nature,*	2018 – 2025
Editorial Board Member,	Journal: Scientific Reports	*Springer: Nature,*	2019 – 2025
Editorial Board Member,	Journal: Brain Structure and Function	*Springer*	2019, 2020
Acting Editor,	Journal: Proceedings of the National Academy of Science,		2019, 2021

International Boards and Service

Member	Steering Committee,	Brain Imaging Data Structure (BIDS)	2025 –
Chair	APS President and Board Selection,	Association for Psychological Science Committee	2023 – 2025
Member	Advisory Committee,	ACCESS-CI.org	2023 –
Chair	Infrastructure Committee,	The International Neuroinformatics Communication Facility	2024 –
Member	Teaching-Education Committee,	The International Neuroinformatics Communication Facility	2023 –
Chair	Data Sharing Working Group,	The International Brain Initiative,	2022 – 2023
Member	Advisory Board,	Implementing FAIR Workflows Project	2022 –
Member	Data Sharing Working Group,	The International Brain Initiative	2020 – 2022
Chair	Cognitive Area Program,	The Association for Psychological Science,	2019 – 2023

Peer reviewer (ad hoc since 2019)

- iScience
- PNAS Proceedings of the National Academy of Science
- Nature Neuroscience
- Nature Methods
- Nature Communications
- Scientific Reports
- Scientific Data
- Journal of Neuroscience
- Cerebral Cortex
- PLoS Biology
- PLoS Computational Biology
- Brain Structure and Function
- Human Brain Mapping
- Journal of Alzheimer's Disease
- Brain Imaging and Behavior
- Journal of Vision
- Vision Research
- Frontiers in Human Neuroscience
- Visual Neuroscience
- Neuroscience and Neuroeconomics
- Journal of Cognitive Psychology
- Neuroscience
- Investigative Ophthalmology & Visual Science
- NIPS (Neural Information processing systems)
- Journal of Magnetic Resonance Imaging
- Neuroimage
- Transaction in Medical Imaging
- Nature Reviews Neuroscience

Grant review panels

Panel member,	Study Section,	NIH	NINDS	BDMA,	2026
Panel member,	Study Section,	NIH	NINDS	BDMA,	2026
Panel member,	Study Section,	NIH	NINDS	BDMA,	2025
Panel member,	Special Emphasis Panel,	NIH	NINDS	BRAIN Initiative U24,	2025
Panel member,	Special Emphasis Panel,	NIH	NIMH	Brain-Behavior Quant & Synchronization,	2024
Reviewer,	Special Emphasis Panel,	NIH	NIMH	Board of Scientific Counselors (BSC),	2024
Panel member,	Study Section,	NIH	NIBIB	Biodata Management and Analysis (BDMA),	2024, 2023
"	Special Emphasis Panel,	NIH	NIBIB	Amyotrophic Lateral Sclerosis Consortium,	2023
"	Study Section,	NIH	NIBIB	Emerging Imaging Technologies (EITN)	2021, 2022
"	Special Emphasis Panel,	NIH	NIMH	Healthy Brain Network	2021
"	"	NIH	NIMH	BRAIN Initiative	2020
"	Various Panels,	NSF	SBE, CISE		2019
Grant Reviewer,	Various Programs,ERC	European Research Council Advanced Grants			2015-2019
"	*NSF Panel member.*	National Science Foundation (NSF).			2018,2016
"	Ad Hoc Reviewer	The Italian National Institute of Health (Ministero della Sanita).			2015-2018
"	Ad Hoc Reviewer	Israeli Science Foundation			2015, 2016

Service to professional societies

Chair,	Election Committee, Selection of President & Board,	The Association for Psychological Science,	2023, 2024
Member,	Rising Stars Award Selection Committee,	The Association for Psychological Science,	2019 – 2021

Organization of scientific meetings

Organizer	Hackathon	NIH BRAIN CONNECTS, Austin, TX,		2025
Organizer	Annual Meeting	NIH BRAIN CONNECTS, San Diego, CA,		2025
Organizer	Global Workshop	Wellcome Trust International Data Governance, Johannesburg, Soth Africa		2025
Organizer	Annual Assembly	The International Neuroinformatics Communication Facility, Austin, TX,		2024
Organizer	Global Workshop	Wellcome Trust International Data Governance, Austin, TX,		2024
Organizer	Talk Series	The University of Texas at Austin,	Cognitive Neuroscience Talk Series,	2024,2022
Chair	Annual Convention,	Association for Psychological Science,	Cognitive Psychology Program,	2019-2023
Organizer	Annual Meeting,	Society for Neuroscience,	NanoSymposium on International Data Governance,	2023
Organizer	Satellite Symposium,	Society for Neuroscience Annual Meeting,	International Brain Initiative,	2022
Organizer	NIH Workshop	The Brain Imaging Data Structure (BIDS) Brain Connectivity Workshop, Austin, TX,		2022
Organizer	"	Big Data Neuroscience Workshop,	Austin, TX,	2022
Organizer	"	"	Urbana-Champaign, IL	2021
Co-Organizer	Hackathon	BrainHack Global,	Bloomington, IN	2021
Organizer	"	"	Virtual Meeting	2020
Organizer	"	"	Ann Arbor, MI	2019
Organizer	*Workshop on Learning Human and Machines, Association For Psychological Science,*		Bloomington, IN	2019
Organizer	*Midwest Cognitive Science Conference, Cognitive Science Society,*		Bloomington, IN,	2019
Co-Organizer	Hackathon	BrainHack Global,	Bloomington, IN	2017
Organizer	*NSF Workshop on Big Data Neuroscience,*		Bloomington, IN,	2017
Organizer	*NSF Workshop on Big Data Neuroscience,*		Ann Arbor, MI,	2016
co-Organizer	*Advances in computational neuroanatomy: Japanese Neuroscience Society*		Yokohama, JAPAN	2016
co-Organizer	*Linking behavior to cortical activity, Vision Science Society*		St. Pete, FL,	2015
co-Organizer	The visual white-matter matters: Symposium, *Vision Science Society*,		St. Pete, FL,	2014

Organizer	Neurotechniques, Italian Academy for Advanced Studies, Columbia University, NY.	2010
Organizer	Vision Lunch, Department of Psychology, Stanford University, Stanford, CA.	2011-2014

Professional memberships

Organization for Human Brain Mapping, 2018–

Society for Neuroscience, 2015–

Association for Psychological Society, 2015

News and media

My work has been featured several times in the official Indiana University Psychological and Brain Sciences outreach magazine.

https://magazine.psych.indiana.edu/winter-2017/features/head-in-the-clouds.html

http://psych.indiana.edu/update-winter-2015/beyond-average-vision.html

2025

New National Data Coordination Center

https://liberalarts.utexas.edu/news/ut-professor-awarded-nih-center-grant-for-big-data-technology-to-map-the-brain

2024

Creating a Global 'BRIDGE' for Brain Research Data

https://www.psychologicalscience.org/publications/observer/bridge-brain-research-data.html

2023

UT researchers join collaborative research project to study brain connections

https://thedailytexan.com/2023/10/13/ut-researchers-join-collaborative-research-project-to-study-brain-connections/

Developing international governance frameworks for neuroscience data (Wellcome Trust Award)

https://liberalarts.utexas.edu/psychology/news/wellcome-trust-awards-funding-to-develop-international-governance-framework-for-neuroscience-data-sharing

A new undergraduate course in data science in the College of Liberal Arts

https://liberalarts.utexas.edu/psychology/news/a-new-course-psychological-data-science-foundations-ii-dives-into-complex-data-projects

2022

Developing international data governance and global consortium

https://liberalarts.utexas.edu/news/ut-austin-psychology-professor-receives-wellcome-trust-grant-to-create-international-governance-framework-for-sharing-neuroscience-and-mental-health-research

Connecting Neuroscience: Building a framework for international data governance

https://kavlifoundation.org/news/connecting-neuroscience

Improve International Data Governance in Neuroscience Research

https://liberalarts.utexas.edu/news/university-of-texas-at-austin-psychologist-receives-kavli-foundation-grant-to-improve-international-data-governance-in-neuroscience-research

2021

College of Liberal Arts The University of Texas at Austin: A Language for Big Data Neuroscience

https://lifeandletters.la.utexas.edu/2021/09/a-language-for-big-data-neuroscience/

Association For Psychological Science (APS). The Observer: Interview on brain networks and the human connectome

https://www.psychologicalscience.org/observer/totally-wired

Association For Psychological Science (APS). The Observer: Focus piece on new technologies for imaging

https://www.psychologicalscience.org/observer/cloud-platform-methods

Texas Advanced Computing Center (TACC). TACC's communication wrote a short piece on brainlife.io and the science that is being implemented using the platform and the TACC supercomputers.

https://www.tacc.utexas.edu/-/cloud-computing-expands-brain-sciences

https://www.technologynetworks.com/neuroscience/news/cloud-computing-drives-new-studies-of-childhood-brain-development-349733

https://www.news-medical.net/news/20210610/New-cloud-technologies-expand-brain-sciences.aspx

https://www.eurekalert.org/news-releases/499217

2020

Open Science and Inclusion and Participation

https://research.impact.iu.edu/our-strengths/science-technology/science-cultures.html

https://www.eurekalert.org/pub_releases/2020-09/iu-irt090920.php

https://phys.org/news/2020-09-outlines-cultures-science.html

Microsoft Faculty Fellowship

March 10, 2020 Mentioned in the American Psychological Association Newsletter https://www.apa.org/pubs/newsletters

https://news.iu.edu/stories/2020/02/iub/releases/27-neuroscientist-pestilli-microsoft-investigator-fellowship-cloud-computing.html

https://itnews.iu.edu/articles/2020/Pestilli-awarded-200,000-Microsoft-Investigator-Fellowship-.php

https://news.iu.edu/stories/2019/06/iub/04-tool-accelerates-brain-research.html

brainlife.io

https://www.hpcwire.com/off-the-wire/iu-to-acquire-fastest-university-owned-ai-supercomputer/

2019

The attentive brain

http://bpod.mrc.ac.uk/archive/2019/1/23

Research on big data in healthcare

https://news.iu.edu/stories/2019/09/iub/releases/20-health-care-industry-payments-medical-providers.html

2018

Midwest Cognitive Science Conference and Workshop on Learning in Human and Machines

https://news.iu.edu/stories/2018/05/iub/29-hosts-cutting-edge-conference-at-the-crossroads-of-human-and-machine-learning.html

Human brain shape analysis on supercomputers

https://itnews.iu.edu/articles/2018/IU%20PhD%20student%20set%20to%20understand%20the%20shape%20of%20human%20white%20matter%20through%20high-performance%20computing.php

BrainHack Global Event

https://news.iu.edu/stories/2018/05/iub/01-brainhack-global-conference.html

Sports related brain research

http://www.thehoosiertopics.com/news/2018-05-02/Front_Page/Brain_differences_in_contact_vs_noncontact_sports.html
https://www.technologynetworks.com/neuroscience/news/brain-differences-found-in-athletes-playing-contact-vs-noncontact-sports-299489

https://news.iu.edu/stories/2018/04/iub/releases/05-brain-differences-in-athletes-playing-contact-vs-noncontact-sports.html

2017

NSF BRAIN Initiative Award

https://www.nsf.gov/news/special_reports/brain/initiative/
https://news.iu.edu/stories/2017/08/iub/10-science-brain-initiative.html
https://www.psychologicalscience.org/policy/nsf-program-awards-1-million-in-research-grants-to-two-psychological-scientists.html

https://www.eurekalert.org/pub_releases/2017-08/nsf-nfn080817.php

Big Data for Psychological and Brain Science
https://magazine.psych.indiana.edu/features/head-in-the-clouds.html

Big Data for Psychological and Brain Science
https://magazine.psych.indiana.edu/features/head-in-the-clouds.html

Indiana University's University Information Technologies Services and Research Technologies
https://www.youtube.com/watch?v=lhp1HWPefk8

Microsoft Research Award
https://news.iu.edu/stories/2017/06/iub/12-science-azure-awards.html

https://www.microsoft.com/en-us/research/blog/nsf-big-data-innovation-hubs-collaboration

Indiana University Emerging Areas of Research
http://news.indiana.edu/releases/iu/2017/01/emerging-areas-of-research-award.shtml

2016

Association for Psychological Science Early Career Award

http://www.psychologicalscience.org/index.php/publications/observer/2016/may-june-16/aps-janet-taylor-spence-award-for-transformative-early-career-contributions-5.html

http://www.idsnews.com/article/2016/02/two-recognized-for-contributions-in-psychology

http://news.indiana.edu/releases/iu/2016/01/pestilli-lewis-association-for-psychological-science-honors.shtml

NSF Big Data Neuroscience Award

https://www.nsf.gov/news/news_summ.jsp?cntn_id=189864
https://www.hpcwire.com/2016/09/28/nsf-backs-big-data-spokes-10m-grants/
http://www.ncsa.illinois.edu/news/story/nsf_awards_connect_midwest_big_data_hub_and_scientists_to_solve_regional_ch

Precision brain science
http://psych.indiana.edu/update/beyond-average-vision.html

Peebles Memorial Lecture
https://www.youtube.com/watch?v=YaUetDHCpHs

White matter predicts economic decisions
http://news.stanford.edu/news/2016/january/addiction-brain-connection-010716.html

Re-discovering A Lost Part of the Brain
https://academicminute.org/2016/01/franco-pestilli-indiana-university-re-discovering-a-lost-part-of-the-brain
https://www.insidehighered.com/audio/2016/01/11/rediscovering-lost-part-brain

2015

Alzheimer's Disease and Aging (CTSI GLUE grant)

http://news.medicine.iu.edu/releases/2015/09/indiana-ctsi-glue-awards.shtml

A major human white matter pathway rediscovered

http://academicminute.org/2016/01/franco-pestilli-indiana-university-re-discovering-a-lost-part-of-the-brain/
http://news.indiana.edu/releases/iu/2015/09/lost-brain.shtml
http://www.theguardian.com/science/neurophilosophy/2014/nov/17/major-brain-pathway-rediscovered
http://news.stanford.edu/news/2014/november/mystery-brain-imaging-112014.html

White matter pathways dedicated to human face recognition

http://news.stanford.edu/news/2015/january/face-blind-brain-013015.html

Indiana University Faculty spotlight

http://inside.indiana.edu/spotlights-profiles/faculty-staff/2015-08-19-new-faculty.shtml

2014

Stanford University news: New technology to map the human connectome

http://news.stanford.edu/news/2014/september/brain-communicate-wandell-091014.html
http://medicalxpress.com/news/2014-09-scientists-white-human-brain.html
http://neurosciencenews.com/white-matter-brain-mapping-technology-1316

References

Ali Preston,	The University of Texas,	+1 (512) 475-7255.,	apreston@utexas.edu
Wilson Geisler,	-	+1 (512) 471-5380,	w.geisler@utexas.edu
Alexander Huk,	UCLA	+1 (512) 232-5729,	huk@ucla.edu
Olaf Sporns,	Indiana University,	+1 (812) 855-2772,	osporns@indiana.edu
Richard Shiffrin,	-	+1 (812) 855-4972,	shiffrin@indiana.edu
Linda Smith,	-	+1 (812) 855-6052,	smith4@indiana.edu
Robert Goldstone,	-	+1 (812) 855-4853,	rgoldsto@indiana.edu
Aina Puce,	-	+1 (812) 856-0417,	ainapuce@indiana.edu
Brian Wandell,	Stanford University,	+1 (650) 725 2466,	wandell@stanford.edu
Russell A. Poldrack,	-	+1 (650) 497-8488,	russpold@stanford.edu
Justin Gardner,	-	+1 (650) 725-2417,	jlg@stanford.edu

Kalanit Grill-Spector,	-	+1 (212) 998 7868,	kalanit@stanford.edu
Marisa Carrasco,	New York University,	+1 (212) 998 3828,	marisa.carrasco@nyu.edu
David Heeger,	-	+1 (212) 998 7868,	david.heeger@nyu.edu

Extra academic

2011-2014	Stanford University Alpine Club
2009-2010	Member, Columbia University Cycling Club
2001	Consultant ATEL, a boutique Information Technology consulting firm based in Italy.
1994	Finalist Track and Field, European Team Championships, Warsaw, Poland (4th position).
1991-1994	Gold Medalist Track & Field and Cross-country Nationals, Italy.