Stanford

Tirin Moore

Ben Barres Professor

Neurobiology

Bio

ACADEMIC APPOINTMENTS

- Professor, Neurobiology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Andrew Carnegie Prize in Mind and Brain Sciences, Carnegie Mellon University (2023)
- Golden Brain Award, Minerva Foundation (2021)
- Member, National Academy of Sciences (2021)
- Member, American Academy of Arts and Sciences (2021)
- Pradel Research Award, National Academy of Sciences (2021)
- Member, National Academy of Medicine (2017)
- Investigator, Howard Hughes Medical Institute (2014-)
- Early Career Scientist, Howard Hughes Medical Institute (2009-2014)
- Troland Award, National Academy of Sciences (2009)
- CAREER Award, National Science Foundation (2006-2011)
- McKnight Scholar Award, McKnight Endowment Fund (2006-2009)
- Pew Scholar, Pew Charitable Trust (2004-2008)

PROFESSIONAL EDUCATION

- Ph.D., Princeton , Neuroscience (1995)
- Postdoc, M.I.T. , Neuroscience

LINKS

- MooreLab Webpage: https://www.moorelabstanford.com

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

We study neural mechanisms of visual-motor integration and the neural basis of perception and cognition (e.g. attention). For example, we study the activity of single neurons in visual and motor structures within the brain, examine how perturbing that activity affects neurons in other brain structures, and also how it affects the perceptual and motor performance of behaving animals. Questions currently addressed by our group include:

(1) How are signals conveyed by visual cortical neurons used to guide movements?

(2) How does motor feedback affect processing in sensory cortex?

(3) What is the impact of planned movements on sensory perception?

(4) What are the neural circuit-level mechanisms underlying executive functions, e.g. attention and working memory?

Our laboratory is also driven to develop more powerful approaches to systems-level neurobiological questions (e.g. large-scale electrophysiological recordings).

Teaching

COURSES

2025-26

- Neuroscience Systems Core: NEPR 203 (Spr)

2024-25

- Neuroscience Systems Core: NEPR 203 (Spr)

2023-24

- Neuroscience Systems Core: NEPR 203 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Kyrus Mama

Postdoctoral Faculty Sponsor

Francesco Lanfranchi

Doctoral Dissertation Advisor (AC)

Shreyas Muralidharan, Ethan Trepka

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Bioengineering (Phd Program)
- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **Neuropixels reveal laminar microcircuit organization in monkey V1 in vivo.** *Proceedings of the National Academy of Sciences of the United States of America*
  Carr, N., Zhu, S., Chen, X., Lee, E. K., Perliss, A., Moore, T., Chandrasekaran, C.
  2026; 123 (8): e2521556123

- **A System for Live Sorting of Neuronal Spiking Activity from Large-scale Recordings.** *bioRxiv : the preprint server for biology*
  Muralidharan, S., Leng, C., Orts, L., Trepka, E., Zhu, S., Panichello, M., Jonikaitis, D., Pennington, J., Pachitariu, M., Moore, T.
  2026

- **Dependence of contextual modulation in macaque V1 on interlaminar signal flow** *ELIFE*
  Zhu, S., Oh, Y., Trepka, E. B., Chen, X., Moore, T.
  2026; 13

- **Pupil size predicts exploration through critical slowing in prefrontal dynamics.** *Communications biology*
  Shourkeshti, A., Abbaszadeh, M., Marrocco, G., Jurewicz, K., Moore, T., Ebitz, R. B.
  2025

- **Large-scale high-density brain-wide neural recording in nonhuman primates.** *Nature neuroscience*
  Trautmann, E. M., Hesse, J. K., Stine, G. M., Xia, R., Zhu, S., O'Shea, D. J., Karsh, B., Colonell, J., Lanfranchi, F. F., Vyas, S., Zimnik, A., Amematsro, E., Steinemann, et al
  2025

- **High-resolution laminar recordings reveal structure-function relationships in monkey V1.** *bioRxiv : the preprint server for biology*
  Carr, N., Zhu, S., Lee, K., Xia, R., Chen, X., Perliss, A., Moore, T., Chandrasekaran, C.
  2025

- **Robust encoding of stimulus-response mapping by neurons in visual cortex.** *Proceedings of the National Academy of Sciences of the United States of America*
  Jonikaitis, D., Xia, R., Moore, T.
  2025; 122 (9): e2408079122

- **Neural mechanisms underlying robust target selection in response to microstimulation of the oculomotor system.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Rakhshan, M., Schafer, R. J., Moore, T., Soltani, A.
  2024

- **Intermittent rate coding and cue-specific ensembles support working memory.** *Nature*
  Panichello, M. F., Jonikaitis, D., Oh, Y. J., Zhu, S., Trepka, E. B., Moore, T.
  2024

- **Comparison of orientation encoding across layers within single columns of primate V1 revealed by high-density recordings.** *Frontiers in neural circuits*
  Zhu, S., Xia, R., Chen, X., Moore, T.
  2024; 18: 1399571

- **Common and distinct neural mechanisms of attention.** *Trends in cognitive sciences*
  Xia, R., Chen, X., Engel, T. A., Moore, T.
  2024

- **Dissociable components of attention exhibit distinct neuronal signatures in primate visual cortex.** *Science advances*
  Chandrasekaran, A. N., Vermani, A., Gupta, P., Steinmetz, N., Moore, T., Sridharan, D.
  2024; 10 (5): eadi0645

- **Dissociating the Contributions of Frontal Eye Field Activity to Spatial Working Memory and Motor Preparation.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Jonikaitis, D., Noudoost, B., Moore, T.

2023

- **Dissociating the Contributions of Frontal Eye Field Activity to Spatial Working Memory and Motor Preparation.** *bioRxiv : the preprint server for biology*
  Jonikaitis, D., Noudoost, B., Moore, T.
  2023
- **Pupil size predicts the onset of exploration in brain and behavior.** *bioRxiv : the preprint server for biology*
  Shourkeshti, A., Marrocco, G., Jurewicz, K., Moore, T., Ebitz, R. B.
  2023
- **Intrinsic timescales in the visual cortex change with selective attention and reflect spatial connectivity.** *Nature communications*
  Zeraati, R., Shi, Y. L., Steinmetz, N. A., Gieselmann, M. A., Thiele, A., Moore, T., Levina, A., Engel, T. A.
  2023; 14 (1): 1858
- **Functional interactions among neurons within single columns of macaque V1.** *eLife*
  Trepka, E. B., Zhu, S., Xia, R., Chen, X., Moore, T.
  2022; 11
- **Cortical state dynamics and selective attention define the spatial pattern of correlated variability in neocortex.** *Nature communications*
  Shi, Y., Steinmetz, N. A., Moore, T., Boahen, K., Engel, T. A.
  1800; 13 (1): 44
- **Working memory gates visual input to primate prefrontal neurons.** *eLife*
  Noudoost, B., Clark, K. L., Moore, T.
  2021; 10
- **Frontotemporal coordination predicts working memory performance and its local neural signatures.** *Nature communications*
  Rezayat, E., Dehaqani, M. A., Clark, K., Bahmani, Z., Moore, T., Noudoost, B.
  2021; 12 (1): 1103
- **Top-down coordination of local cortical state during selective attention.** *Neuron*
  van Kempen, J., Gieselmann, M. A., Boyd, M., Steinmetz, N. A., Moore, T., Engel, T. A., Thiele, A.
  2020
- **Separable Influences of Reward on Visual Processing and Choice.** *Journal of cognitive neuroscience*
  Soltani, A., Rakhshan, M., Schafer, R. J., Burrows, B. E., Moore, T.
  2020: 1–16
- **Primate Frontal Eye Field Neurons Selectively Signal the Reward Value of Prior Actions.** *Progress in neurobiology*
  Chen, X., Zirnsak, M., Vega, G. M., Moore, T.
  2020: 101881
- **Remote, brain region-specific control of choice behavior with ultrasonic waves.** *Science advances*
  Kubanek, J. n., Brown, J. n., Ye, P. n., Pauly, K. B., Moore, T. n., Newsome, W. n.
  2020; 6 (21): eaaz4193
- **Dopamine Receptor Expression Among Local and Visual Cortex-Projecting Frontal Eye Field Neurons** *CEREBRAL CORTEX*
  Mueller, A., Krock, R. M., Shepard, S., Moore, T.
  2020; 30 (1): 148–64
- **Parietal Cortex Regulates Visual Salience and Salience-Driven Behavior.** *Neuron*
  Chen, X. n., Zirnsak, M. n., Vega, G. M., Govil, E. n., Lomber, S. G., Moore, T. n.
  2020
- **Differences in Noradrenaline Receptor Expression Across Different Neuronal Subtypes in Macaque Frontal Eye Field.** *Frontiers in neuroanatomy*
  Lee, M., Mueller, A., Moore, T.
  2020; 14: 574130
- **The interdependence of attention, working memory and gaze control: behavior and neural circuitry** *CURRENT OPINION IN PSYCHOLOGY*

Jonikaitis, D., Moore, T.
2019; 29: 126–34

- **Prefrontal Contributions to Attention and Working Memory.** *Current topics in behavioral neurosciences*
  Bahmani, Z., Clark, K., Merrikhi, Y., Mueller, A., Pettine, W., Isabel Vanegas, M., Moore, T., Noudoost, B.
  2019
- **The interdependence of attention, working memory and gaze control: behavior and neural circuitry.** *Current opinion in psychology*
  Jonikaitis, D., Moore, T.
  2019; 29: 126–34
- **Both a Gauge and a Filter: Cognitive Modulations of Pupil Size** *FRONTIERS IN NEUROLOGY*
  Ebitz, R., Moore, T.
  2019; 9
- **Laminar segregation of sensory coding and behavioral readout in macaque V4.** *Proceedings of the National Academy of Sciences of the United States of America*
  Pettine, W. W., Steinmetz, N. A., Moore, T. n.
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- **Prefrontal Contributions to Attention and Working Memory** *PROCESSES OF VISUOSPATIAL ATTENTION AND WORKING MEMORY*
  Bahmani, Z., Clark, K., Merrikhi, Y., Mueller, A., Pettine, W., Vanegas, M., Moore, T., Noudoost, B.
  edited by Hodgson, T.
  2019; 41: 129-153
- **Robust Online Spike Recovery for High-Density Electrode Recordings using Convolutional Compressed Sensing**
  Weingartner, S., Chen, X., Akcakaya, M., Moore, T., IEEE
  IEEE.2019: 1015–20
- **Visions for the Future of Neuroscience** *NEURON*
  Moore, T., Chestek, C., Polley, D., Chen, A., Hippenmeyer, S., Anikeeva, P.
  2018; 98 (3): 464–65
- **Dissonant Representations of Visual Space in Prefrontal Cortex during Eye Movements** *CELL REPORTS*
  Chen, X., Zirnsak, M., Moore, T.
  2018; 22 (8): 2039–52
- **Differential Expression of Dopamine D5 Receptors across Neuronal Subtypes in Macaque Frontal Eye Field** *FRONTIERS IN NEURAL CIRCUITS*
  Mueller, A., Shepard, S. B., Moore, T.
  2018; 12: 12
- **Both a Gauge and a Filter: Cognitive Modulations of Pupil Size.** *Frontiers in neurology*
  Ebitz, R. B., Moore, T.
  2018; 9: 1190
- **Exploration Disrupts Choice-Predictive Signals and Alters Dynamics in Prefrontal Cortex** *NEURON*
  Ebitz, R., Albarran, E., Moore, T.
  2018; 97 (2): 450-+
- **Subclusters of Autistic Traits: Links With Looking at the Eyes, and Face Identity Recognition Ability**
  Palermo, R., Davis, J., Zirnsak, M., Moore, T., O'Kearney, R., Apthorp, D., McKone, E.
  SAGE PUBLICATIONS LTD.2017: 19-20
- **Linking ADHD to the Neural Circuitry of Attention** *TRENDS IN COGNITIVE SCIENCES*
  Mueller, A., Hong, D. S., Shepard, S., Moore, T.
  2017; 21 (6): 474-488
- **Selective Modulation of the Pupil Light Reflex by Microstimulation of Prefrontal Cortex.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Ebitz, R. B., Moore, T.

2017; 37 (19): 5008-5018

- **Spatial working memory alters the efficacy of input to visual cortex** *NATURE COMMUNICATIONS*
  Merrikhi, Y., Clark, K., Albarran, E., Parsa, M., Zirnsak, M., Moore, T., Noudoost, B.
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- **Social and attention-to-detail subclusters of autistic traits differentially predict looking at eyes and face identity recognition ability** *BRITISH JOURNAL OF PSYCHOLOGY*
  Davis, J., McKone, E., Zirnsak, M., Moore, T., O'Kearney, R., Apthorp, D., Palermo, R.
  2017; 108 (1): 191-219
- **Does the Superior Colliculus Control Perceptual Sensitivity or Choice Bias during Attention? Evidence from a Multialternative Decision Framework.** *journal of neuroscience*
  Sridharan, D., Steinmetz, N. A., Moore, T., Knudsen, E. I.
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- **Neural Mechanisms of Selective Visual Attention.** *Annual review of psychology*
  Moore, T., Zirnsak, M.
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- **Two Types of Receptive Field Dynamics in Area V4 at the Time of Eye Movements?** *Frontiers in systems neuroscience*
  Hartmann, T. S., Zirnsak, M., Marquis, M., Hamker, F. H., Moore, T.
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- **Neural Mechanisms of Selective Visual Attention** *ANNUAL REVIEW OF PSYCHOLOGY, VOL 68*
  Moore, T., Zirnsak, M.
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- **Selective modulation of cortical state during spatial attention** *SCIENCE*
  Engel, T. A., Steinmetz, N. A., Gieselmann, M. A., Thiele, A., Moore, T., Boahen, K.
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- **Visual sensitivity of frontal eye field neurons during the preparation of saccadic eye movements** *JOURNAL OF NEUROPHYSIOLOGY*
  Krock, R. M., Moore, T.
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- **The What and Where of Visual Attention.** *Neuron*
  Moore, T., Zirnsak, M.
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- **Copula Regression Analysis of Simultaneously Recorded Frontal Eye Field and Inferotemporal Spiking Activity during Object-Based Working Memory** *JOURNAL OF NEUROSCIENCE*
  Hu, M., Clark, K. L., Gong, X., Noudoost, B., Li, M., Moore, T., Liang, H.
  2015; 35 (23): 8745-8757
- **Copula regression analysis of simultaneously recorded frontal eye field and inferotemporal spiking activity during object-based working memory.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Hu, M., Clark, K. L., Gong, X., Noudoost, B., Li, M., Moore, T., Liang, H.
  2015; 35 (23): 8745-57
- **Diverse coupling of neurons to populations in sensory cortex** *NATURE*
  Okun, M., Steinmetz, N. A., Cossell, L., Iacaruso, M. F., Ko, H., Bartho, P., Moore, T., Hofer, S. B., Mrsic-Flogel, T. D., Carandini, M., Harris, K. D.
  2015; 521 (7553): 511-U189
- **Combined contributions of feedforward and feedback inputs to bottom-up attention** *FRONTIERS IN PSYCHOLOGY*
  Khorsand, P., Moore, T., Soltani, A.
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- **Saccades and shifting receptive fields: anticipating consequences or selecting targets?** *TRENDS IN COGNITIVE SCIENCES*
  Zirnsak, M., Moore, T.

2014; 18 (12): 621-628

- **Eye movement preparation modulates neuronal responses in area v4 when dissociated from attentional demands.** *Neuron*
  Steinmetz, N. A., Moore, T.
  2014; 83 (2): 496-506
- **Persistent Spatial Information in the FEF during Object-based Short-term Memory Does Not Contribute to Task Performance** *JOURNAL OF COGNITIVE NEUROSCIENCE*
  Clark, K. L., Noudoost, B., Moore, T.
  2014; 26 (6): 1292-1299
- **Global selection of saccadic target features by neurons in area v4.** *journal of neuroscience*
  Burrows, B. E., Zirnsak, M., Akhlaghpour, H., Wang, M., Moore, T.
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- **Visual space is compressed in prefrontal cortex before eye movements.** *Nature*
  Zirnsak, M., Steinmetz, N. A., Noudoost, B., Xu, K. Z., Moore, T.
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- **A distinct contribution of the frontal eye field to the visual representation of saccadic targets.** *journal of neuroscience*
  Noudoost, B., Clark, K. L., Moore, T.
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- **Latency of chromatic information in area V4.** *Journal of physiology, Paris*
  Chang, M., Xian, S., Rubin, J., Moore, T.
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- **Distinguishing bias from sensitivity effects in multialternative detection tasks.** *Journal of vision*
  Sridharan, D., Steinmetz, N. A., Moore, T., Knudsen, E. I.
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- **The Influence of Gaze Control on Visual Perception: Eye Movements and Visual Stability.** *Cold Spring Harbor symposia on quantitative biology*
  Krock, R. M., Moore, T.
  2014; 79: 123-130
- **Distinguishing bias from sensitivity effects in multialternative detection tasks.** *Journal of vision*
  Sridharan, D., Steinmetz, N. A., Moore, T., Knudsen, E. I.
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- **Prefrontal contributions to visual selective attention.** *Annual review of neuroscience*
  Squire, R. F., Noudoost, B., Schafer, R. J., Moore, T.
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  Soltani, A., Noudoost, B., Moore, T.
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- **Parietal and prefrontal neurons driven to distraction.** *Nature neuroscience*
  Noudoost, B., Moore, T.
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- **Persistent Spatial Information in the Frontal Eye Field during Object-Based Short-Term Memory** *JOURNAL OF NEUROSCIENCE*
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- **Lumping and Splitting the Neural Circuitry of Visual Attention** *NEURON*
  Steinmetz, N. A., Moore, T.
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- **Dissociation of Response Variability from Firing Rate Effects in Frontal Eye Field Neurons during Visual Stimulation, Working Memory, and Attention** *JOURNAL OF NEUROSCIENCE*
  Chang, M. H., Armstrong, K. M., Moore, T.
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- **The role of neuromodulators in selective attention** *TRENDS IN COGNITIVE SCIENCES*
  Noudoost, B., Moore, T.
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- **Selective Attention from Voluntary Control of Neurons in Prefrontal Cortex** *SCIENCE*
  Schafer, R. J., Moore, T.
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- **Control of visual cortical signals by prefrontal dopamine** *NATURE*
  Noudoost, B., Moore, T.
  2011; 474 (7351): 372-375
- **A reliable microinjectrode system for use in behaving monkeys (vol 194, pg 218, 2011)** *JOURNAL OF NEUROSCIENCE METHODS*
  Noudoost, B., Moore, T.
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- **Probing neural circuitry and function with electrical microstimulation** *PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
  Clark, K. L., Armstrong, K. M., Moore, T.
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  Noudoost, B., Moore, T.
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- **Top-down control of visual attention** *CURRENT OPINION IN NEUROBIOLOGY*
  Noudoost, B., Chang, M. H., Steinmetz, N. A., Moore, T.
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- **Changes in the Response Rate and Response Variability of Area V4 Neurons During the Preparation of Saccadic Eye Movements** *JOURNAL OF NEUROPHYSIOLOGY*
  Steinmetz, N. A., Moore, T.
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- **Selection and Maintenance of Spatial Information by Frontal Eye Field Neurons** *JOURNAL OF NEUROSCIENCE*
  Armstrong, K. M., Chang, M. H., Moore, T.
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- **Influence and Limitations of Popout in the Selection of Salient Visual Stimuli by Area V4 Neurons** *JOURNAL OF NEUROSCIENCE*
  Burrows, B. E., Moore, T.
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  Han, X., Xian, S. X., Moore, T.
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  Gilja, V., Moore, T.
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- **Temporal patterning of saccadic eye movement signals** *JOURNAL OF NEUROSCIENCE*
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