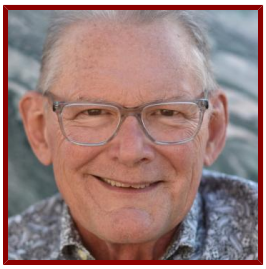
Stanford



Anthony Norcia

Professor (Research) of Psychology, Emeritus

Curriculum Vitae available Online

Bio

BIO

My research program centers around spatial vision and involves the use of behavioral, oculomotor, electrophysiological and functional MRI techniques in humans. My research has focused for many years on normal visual development as well as abnormal visual development in patients with strabismus, autism, cortical visual impairment and neuro-developmental disorders more broadly. To inform this work, I also work with normal adults and animal models. I have published over 30 papers on the normal developmental process, the first in 1977. In addition, I have published over 30 papers on abnormal visual development over the last 20 years and am an expert in the diagnostic classification and pathophysiology of disorders of binocular vision and developmental disorders. My goal has oftern been to translate basic science results into clinical applications. My laboratory has established numerous paradigms in which Visual Evoked Potentials have been used as objective measures of sensory and cognitive function. My group has published many papers in which we have related perceptual judgments to human brain activity. We have developed multiple generations of sophisticated and flexible instrumentation that we have shared with many other laboratories. Central to our research program is our integration of functional MRI and high-density EEG source imaging that allows us to relate brain electrical activity to identified visual areas with 1-2 cm accuracy in individual participants. The development of this technique involved the creation and management of a diverse team of experts in functional MRI, physics, biomedical engineering and visual physiology. This approach will be powerfully extended by the new Optically Pumped Magnetometer facility under construction at the Koret Human Neuroscience Community lab where I serve as a Faculty Co-Director. I have completed training of 18 post-doctoral fellows, 14 of whom have gone on to faculty positions or full-time research positions. I am currently training three post-docs and three graduate students. I have served on 12 Ph.D. thesis committees at Stanford. As a Research Professor, I am able to devote most of my time to direct mentoring of my trainees.

ACADEMIC APPOINTMENTS

- Professor Emeritus, Psychology
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Committee on Research, Stanford University, (2012-2015)

HONORS AND AWARDS

- William A. Kettlewell Chair of Research in Visual Science, Smith-Kettlewell Eye Research Institute (1992)

- Catherine Doyle Kettlewell Chair of Research in Visual Science, Smith-Kettlewell Eye Research Institute (2000)
- Edridge Green Lecturer, Royal College of Ophthalmology, UK (2008)
- Walt and Lilly Disney Award for Amblyopia, Research to Prevent Blindness (2008)
- Trimble Medalist, British Isles Paediatric Ophthalmology Association (2016)
- Inaugural Fellow, Association for Research in Vision and Ophthalmology (2009)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Director, Vision Sciences Society (2012 - 2016)
- President, Vision Sciences Society (2016 - 2016)
- Director, Vision4Children, UK (2010 - present)

PROFESSIONAL EDUCATION

- Ph.D, Stanford University , Physiological Psychology (1981)

LINKS

- Stanford Vision and Neurodevelopment Lab: https://svndl.stanford.edu/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Vision, development, functional imaging, systems analysis

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Alice Xue

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neurosciences (PhD Program)

Publications

PUBLICATIONS

- **Selective Attention Deficits in Mild Traumatic Brain Injury using Steady-State Visual Evoked Potentials; Neural Correlates of Attention.** *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology*
  Norouzpour, A., Haensel, J. X., Lee, M., Hu, A., Vandiver, T. J., Slinger, K. E., Ameyaw Baah, C. A., Leonen, J., Lew, C. Y., Srinivasan, G., Lumba-Brown, A., Gardner, J. L., Raghuram, et al
  2026; 192: 2112387

- **Upper vs lower visual field asymmetries in luminance contrast processing: SSVEP measuremen**
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- **Visual Spatial Attention in Mild Traumatic Brain Injury**
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- **Evidence That Cerebral Visual Impairment May Evolve After Initial Brain Injury.** *Ophthalmology*
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2026

- **Glaucoma Classification Through SSVEP-Derived ON- and OFF-Pathway Features.** *Translational vision science & technology*
  Scott, M. T., Xu, H., Yakovleva, A., Tibshirani, R., Goldberg, J. L., Norcia, A. M.
  2026; 15 (1): 2
- **Selective Attention Deficits in Mild Traumatic Brain Injury using Steady-State Visual Evoked Potentials; Neural Correlates of Attention** *Clinical Neurophysiology*
  Norouzpour, A., Haensel , J., Lee, M., Hu, A., Vandiver, T., Slinger, ., Ameyaw Baah, C., Leonen, J., Lew, C., Srinivasan, G., Lumba-Brown, ., Gardner, J., Raghuram, et al
  2026
- **Steady-state EEG captures how elementary classroom instruction drives plasticity for novel visual words.** *NPJ science of learning*
  Wang, F., Toomarian, E. Y., Gosavi, R. S., Kaneshiro, B., Norcia, A. M., McCandliss, B. D.
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- **Cortical latency predicts reading fluency from late childhood to early adolescence.** *Developmental cognitive neuroscience*
  Wang, F., Nguyen, Q. T., Kaneshiro, B., Norcia, A. M., McCandliss, B. D.
  2025; 77: 101616
- **Strong mnemonic prediction errors increase cognitive control, attention, and arousal.** *bioRxiv : the preprint server for biology*
  Xue, A. M., Jokhani, J., Norcia, A. M., Wagner, A. D.
  2025
- **Development of human binocular vision: An electrophysiological perspective.** *Vision research*
  Norcia, A. M.
  2025; 231: 108593
- **Effect of bilirubin on visuocortical development in preterm infants.** *Journal of perinatology : official journal of the California Perinatal Association*
  Good, W. V., Wong, R. J., Norcia, A. M., Hou, C., Cellucci, J., McGovern, M. Q., Wong-Kee-You, A., Acevedo Munares, G., Richburg, D., Loveridge-Easther, C., Lee, J. S., DeJesus, L., Slagle, et al
  2025
- **Late development of sensory thresholds for horizontal relative disparity in human visual cortex in the face of precocial development of thresholds for absolute disparity.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Norcia, A. M., Kaestner, M., Chen, Y. D., Clement, C. S.
  2025
- **The emergence of visual category representations in infants' brains.** *eLife*
  Yan, X., Tung, S. S., Fascendini, B., Chen, Y. D., Norcia, A. M., Grill-Spector, K.
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- **Visual Field Asymmetries in Responses to ON and OFF Pathway Biasing Stimuli.** *Visual neuroscience*
  Scott, M. T., Yakovleva, A., Norcia, A. M.
  2024; 41: E007
- **DETERMINING OPTIMAL PARAMETERS FOR NONINVASIVE THALAMIC NEUROMODULATION WITH TRANCRANIAL FOCUSED ULTRASOUND**
  Ash, R., Limon, P., Scott, M., Mohammadjavadi, M., Pauly, K., Norcia, A.
  SPRINGERNATURE.2024: 418
- **Glaucoma classification through SSVEP derived ON- and OFF-pathway features.** *medRxiv : the preprint server for health sciences*
  Scott, M. T., Xu, H., Yakovleva, A., Tibshirani, R., Goldberg, J. L., Norcia, A. M.
  2024
- **Trial Design for Identifying Biomarkers of Visual Function in Optic Pathway Gliomas Secondary to Neurofibromatosis Type 1**
  Johnson, T., Smith, Z., Garcia, A., Wink, S., Nunez, M., Wynne, N., Jiang, Y., Morgan, J., Norcia, A. M., Beres, S. J., Campen, C. J., Avery, R. A., Goldberg, et al
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Inter-subject correlation of electroencephalographic and behavioural responses reflects time-varying engagement with natural music.** *The European journal of neuroscience*

Kaneshiro, B., Nguyen, D. T., Norcia, A. M., Dmochowski, J. P., Berger, J.
2024

- **Two Disparity Channels in Human Visual Cortex With Different Contrast and Blur Sensitivity.** *Translational vision science & technology*
  Kaestner, M., Chen, Y. D., Clement, C., Hodges, A., Norcia, A. M.
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- **Poster Session I: Noninvasive neuromodulation of subcortical visual pathways with transcranial focused ultrasound.** *Journal of vision*
  Ash, R., Mohammadjavadi, M., Butts Pauly, K., Norcia, A.
  2023; 23 (15): 23
- **Mouse visual cortex as a limited resource system that self-learns an ecologically-general representation.** *PLoS computational biology*
  Nayebi, A., Kong, N. C., Zhuang, C., Gardner, J. L., Norcia, A. M., Yamins, D. L.
  2023; 19 (10): e1011506
- **Stability of steady-state visual evoked potential contrast response functions.** *Psychophysiology*
  Ash, R. T., Nix, K. C., Norcia, A. M.
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- **Progress in elementary school reading linked to growth of cortical responses to familiar letter combinations within visual word forms.** *Developmental science*
  Wang, F., Kaneshiro, B., Toomarian, E. Y., Gosavi, R. S., Hasak, L. R., Moron, S., Nguyen, Q. T., Norcia, A. M., McCandliss, B. D.
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- **Different contrast response functions for sawtooth stimulation favoring ON vs OFF visual pathways in the upper and lower visual fields**
  Scott, M., Yakovleva, A., Norcia, A.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **NOIR: Neural Signal Operated Intelligent Robots for Everyday Activities**
  Zhang, R., Lee, S., Hwang, M., Hiranaka, A., Wang, C., Ai, W., Tan, J., Gupta, S., Hao, Y., Levine, G., Gao, R., Norcia, A., Li Fei-Fei, et al
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  JMLR-JOURNAL MACHINE LEARNING RESEARCH.2023
- **Lexical and sublexical cortical tuning for print revealed by Steady-State Visual Evoked Potentials (SSVEPs) in early readers.** *Developmental science*
  Wang, F., Nguyen, Q. T., Kaneshiro, B., Hasak, L., Wang, A. M., Toomarian, E. Y., Norcia, A. M., McCandliss, B. D.
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  Chen, Y. D., Kaestner, M., Norcia, A. M.
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  Vildavski, V. Y., Lo Verde, L., Blumberg, G., Parsey, J., Norcia, A. M.
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- **Automatic retinal layer segmentation of visible-light optical coherence tomography images using deep learning**
  Gopal, B., Zhang, T., Norcia, A., Goldberg, J. L., Dubra, A., Zhang, H., Soetikno, B.
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- **Bilirubin-induced neurotoxicity and visuocortical dysfunction.** *Journal of perinatology : official journal of the California Perinatal Association*
  Good, W. V., Wong, R. J., Norcia, A. M., Stevenson, D. K., Slagel, T., Hou, C., Bhutani, V. K.
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  Manning, C., Hassall, C. D., Hunt, L. T., Norcia, A. M., Wagenmakers, E., Evans, N. J., Scerif, G.

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  Kaestner, M., Evans, M. L., Chen, Y. D., Norcia, A. M.
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- **Increasing neural network robustness improves match to macaque V1 eigenspectrum, spatial frequency preference and predictivity.** *PLoS computational biology*
  Kong, N. C., Margalit, E., Gardner, J. L., Norcia, A. M.
  2022; 18 (1): e1009739
- **Transcranial ultrasound neuromodulation of the thalamic visual pathway in a large animal model and the dose#response relationship with MR#ARFI** *Scientific Reports*
  Mohammadjavadi, M., Ash, R. T., Li, N., Gaur, P., Kubanek, J., Saenz, Y., Glover, G. H., Popelka, G. R., Norcia, A. M., Butts Pauly, K.
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- **Stability and Plasticity of Steady-State Visual-Evoked Potential Contrast-Response Functions**
  Ash, R., Nix, K., Lee, M., Pauly, K., Williams, N., Norcia, A.
  SPRINGERNATURE.2021: 507
- **Symmetry Processing in the Macaque Visual Cortex.** *Cerebral cortex (New York, N.Y. : 1991)*
  Audurier, P., Hejja-Brichard, Y., De Castro, V., Kohler, P. J., Norcia, A. M., Durand, J., Cottereau, B. R.
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- **Distinct neural sources underlying visual word form processing as revealed by steady state visual evoked potentials (SSVEP).** *Scientific reports*
  Wang, F., Kaneshiro, B., Strauber, C. B., Hasak, L., Nguyen, Q. T., Yakovleva, A., Vildavski, V. Y., Norcia, A. M., McCandliss, B. D.
  2021; 11 (1): 18229
- **Global motion evoked potentials in autistic and dyslexic children: a cross-syndrome approach**
  Toffoli, L., Scerif, G., Snowling, M. J., Norcia, A. M., Manning, C.
  SAGE PUBLICATIONS LTD.2021: 578-579
- **A case-control study of visual, auditory and audio-visual sensory interactions in children with autism spectrum disorder.** *Journal of vision*
  Norcia, A. M., Lee, A., Meredith, W. J., Kohler, P. J., Pei, F., Ghassan, S. A., Libove, R. A., Phillips, J. M., Hardan, A. Y.
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  Chandna, A., Nichiporuk, N., Nicholas, S., Kumar, R., Norcia, A. M.
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- **Visual motion and decision-making in dyslexia: Reduced accumulation of sensory evidence and related neural dynamics.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
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- **Global motion evoked potentials in autistic and dyslexic children: A cross-syndrome approach.** *Cortex; a journal devoted to the study of the nervous system and behavior*
  Toffoli, L., Scerif, G., Snowling, M. J., Norcia, A. M., Manning, C.
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  Duan, Y. n., Thatte, J. n., Yaklovleva, A. n., Norcia, A. M.
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  Madore, K. P., Khazenzon, A. M., Backes, C. W., Jiang, J., Uncapher, M. R., Norcia, A. M., Wagner, A. D.

2020

- **Neural sources of letter and Vernier acuity.** *Scientific reports*
  Barzegaran, E., Norcia, A. M.
  2020; 10 (1): 15449
- **Dynamics of Contrast Decrement and Increment Responses in Human Visual Cortex.** *Translational vision science & technology*
  Norcia, A. M., Yakovleva, A., Hung, B., Goldberg, J. L.
  2020; 9 (10): 6
- **Discovery and clinical translation of novel glaucoma biomarkers.** *Progress in retinal and eye research*
  Beykin, G., Norcia, A. M., Srinivasan, V. J., Dubra, A., Goldberg, J. L.
  2020: 100875
- **Time-resolved correspondences between deep neural network layers and EEG measurements in object processing.** *Vision research*
  Kong, N. C., Kaneshiro, B., Yamins, D. L., Norcia, A. M.
  2020; 172: 27–45
- **Corrigendum to "Neural dynamics underlying coherent motion perception in children and adults" [Dev. Cogn. Neurosci. 38 (August) (2019) 100670].** *Developmental cognitive neuroscience*
  Manning, C. n., Kaneshiro, B. n., Kohler, P. J., Duta, M. n., Scerif, G. n., Norcia, A. M.
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- **Natural music evokes correlated EEG responses reflecting temporal structure and beat.** *NeuroImage*
  Kaneshiro, B. n., Nguyen, D. T., Norcia, A. M., Dmochowski, J. P., Berger, J. n.
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- **Relative contributions to vergence eye movements of two binocular cues for motion-in-depth.** *Scientific reports*
  Giesel, M., Yakovleva, A., Bloj, M., Wade, A. R., Norcia, A. M., Harris, J. M.
  2019; 9 (1): 17412
- **Differential Experience-Dependent Plasticity of Form and Motion Mechanisms in Anisometropic Amblyopia.** *Investigative ophthalmology & visual science*
  Chen, S. I., Chandna, A., Nicholas, S., Norcia, A. M.
  2019; 60 (13): 4109–19
- **Humans perceive binocular rivalry and fusion in a tristable dynamic state.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Riesen, G., Norcia, A. M., Gardner, J. L.
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  Barzegaran, E., Bosse, S., Norcia, A. M.
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- **Contrast decrement vs increment responsiveness in glaucoma**
  Norcia, A., Yakovleva, A., Goldberg, J. L.
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- **Image Segmentation Based on Relative Motion and Relative Disparity Cues in Topographically Organized Areas of Human Visual Cortex.** *Scientific reports*
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  Manning, C., Kaneshiro, B., Kohler, P. J., Duta, M., Scerif, G., Norcia, A. M.
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- **Autism sensory dysfunction in an evolutionarily conserved system.** *Proceedings. Biological sciences*
  Vilidaite, G., Norcia, A. M., West, R. J., Elliott, C. J., Pei, F., Wade, A. R., Baker, D. H.

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  Schurr, R., Duan, Y., Norcia, A. M., Ogawa, S., Yeatman, J. D., Mezer, A. A.
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- **Revisiting the functional significance of binocular cues for perceiving motion-in-depth.** *Nature communications*
  Kohler, P. J., Meredith, W. J., Norcia, A. M.
  2018; 9 (1): 3511
- **The neural basis of visual symmetry and its role in mid- and high-level visual processing** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*
  Bertamini, M., Silvanto, J., Norcia, A. M., Makin, A. D. J., Wagemans, J.
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  Goldberg, J. L., Yakovleva, A., Hung, B., Norcia, A.
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- **Measuring Integration Processes in Visual Symmetry with Frequency-Tagged EEG** *SCIENTIFIC REPORTS*
  Alp, N., Kohler, P., Kogo, N., Wagemans, J., Norcia, A.
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- **Electrophysiological Correlates of Motion Processing and Decision-Making in Children and Adults**
  Manning, C., Scerif, G., Norcia, A.
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  Padmanaban, N., Ruban, T., Sitzmann, V., Norcia, A. M., Wetzstein, G.
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- **Detection of Amblyopia Using Sweep VEP Vernier and Grating Acuity** *INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE*
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  Duan, Y., Yakovleva, A., Norcia, A. M.
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  Kohler, P. J., Cottereau, B. R., Norcia, A. M.
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- **Distinct Representations of Magnitude and Spatial Position within Parietal Cortex during Number-Space Mapping** *JOURNAL OF COGNITIVE NEUROSCIENCE*
  Kanayet, F. J., Mattarella-Micke, A., Kohler, P. J., Norcia, A. M., McCandliss, B. D., McClelland, J. L.
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2017

- **Development of contrast normalization mechanisms during childhood and adolescence** *VISION RESEARCH*
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