

Stanford

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CLINICAL OFFICE (PRIMARY)

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Bio

BIO

Gayle K. Deutsch, PhD, ABPP-CN is a Clinical Professor (Affiliated) in the Department of Neurology and Neurological Sciences. She is the lead neuropsychologist for the Stanford Neuropsychology Service. She received her doctoral degree in clinical psychology at Drexel University in 1994. She completed a pre-doctoral internship at the Brain Behavior Laboratory, Department of Psychiatry at the University of Pennsylvania and a post-doctoral fellowship at the Graduate Hospital in Philadelphia, PA. She obtained board certification in Clinical Neuropsychology in 2006 and subspecialty board certification in Pediatric Clinical Neuropsychology in 2016.

CURRENT ROLE AT STANFORD

Clinical Professor (Affiliated) Stanford Department of Neurology and Neurological Sciences

CLINICAL FOCUS

- Neuropsychology
- Pediatric Clinical Neuropsychology
- Clinical Neuropsychology

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Academy of Clinical Neuropsychology (2006 - present)
- Fellow, National Academy of Neuropsychology (2005 - present)
- Member, International Neuropsychological Society (1996 - present)

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Clinical Neuropsychology, American Board of Professional Psychology (2016)
- Board Certification: Clinical Neuropsychology, American Board of Professional Psychology (2006)
- PhD Training: Drexel University College of Medicine (1994) PA
- Fellowship, Graduate Hospital of the University of Pennsylvania , Clinical Neuropsychology (1995)
- Internship: Hospital of the University of Pennsylvania (1993) PA

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Publications

PUBLICATIONS

- **Intracranial recordings of the human orbitofrontal cortical activity during self-referential episodic and valenced self-judgments.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Iravani, B., Kaboodvand, N., Stieger, J. R., Liang, E. Y., Lusk, Z., Fransson, P., Deutsch, G. K., Gotlib, I. H., Parvizi, J.
2024
- **Prevalence, Demographic, and Clinical Factors Associated With Cognitive Dysfunction in Patients With Neuromyelitis Optica Spectrum Disorder.** *Neurology*
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- **Learning Spectral Fractional Anisotropy and Mean Diffusivity Features as Neuroimaging Biomarkers for Tracking White Matter Integrity Changes in Myotonic Dystrophy Type 1 Patients using Deep Convolutional Neural Networks.** *Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual International Conference*
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- **Long-Term Cognitive and Neuropsychiatric Outcomes in Adults Who Have Received Chimeric Antigen Receptor T-Cell (CAR-T) Therapy for Aggressive Lymphoma at Stanford - a Pilot Feasibility Study**
Scott, B. J., Murray, T., Deutsch, G. K., Lahijani, S., Frank, M. J., Monje, M.
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- **Cognitive Impairment Analysis of Myotonic Dystrophy via Weakly Supervised Classification of Neuropsychological Features.** *Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual International Conference*
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- **Brief assessment of cognitive function in myotonic dystrophy: multicenter longitudinal study using computer-assisted evaluation.** *Muscle & nerve*
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2022
- **Association of CSF Biomarkers with Hippocampal-dependent Memory in Preclinical Alzheimer Disease.** *Neurology*
Trelle, A. N., Carr, V. A., Wilson, E. N., Swarovski, M. S., Hunt, M. P., Toueg, T. N., Tran, T. T., Channappa, D. n., Corso, N. K., Thieu, M. K., Jayakumar, M. n., Nadiadwala, A. n., Guo, et al
2021
- **Toward Developing Robust Myotonic Dystrophy Brain Biomarkers using White Matter Tract Profiles Sub-Band Energy and A Framework of Ensemble Predictive Learning.** *Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual International Conference*
Kamali, T., Parker, D., Day, J. W., Sampson, J., Deutsch, G. K., Wozniak, J. R.
2021; 2021: 3838-3841
- **Safety of Plasma Infusions in Parkinson's Disease.** *Movement disorders : official journal of the Movement Disorder Society*
Parker, J. E., Martinez, A. n., Deutsch, G. K., Prabhakar, V. n., Lising, M. n., Kapphahn, K. I., Anidi, C. M., Neuville, R. n., Coburn, M. n., Shah, N. n., Bronte-Stewart, H. M.
2020
- **Hippocampal and cortical mechanisms at retrieval explain variability in episodic remembering in older adults.** *eLife*
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- **Tau PET imaging with 18F-PI-2620 in aging and neurodegenerative diseases.** *European journal of nuclear medicine and molecular imaging*
Mormino, E. C., Toueg, T. N., Azevedo, C. n., Castillo, J. B., Guo, W. n., Nadiadwala, A. n., Corso, N. K., Hall, J. N., Fan, A. n., Trelle, A. N., Harrison, M. B., Hunt, M. P., Sha, et al
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- **Hippocampal CA1 subfield predicts episodic memory impairment in Parkinson's disease** *NEUROIMAGE-CLINICAL*
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- **Learning Disabilities** *Handbook of Medical Neuropsychology*
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- **Repetitive transcranial magnetic stimulation directed to a seizure focus localized by high-density EEG: A case report.** *Epilepsy & behavior case reports*
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- **Neurocognitive Disorders** *APA Handbook of Psychopathology*
Yutsis, M. M., Rosen, A., Deutsch, G. K.
2018
- **Safety, Tolerability, and Feasibility of Young Plasma Infusion in the Plasma for Alzheimer Symptom Amelioration Study: A Randomized Clinical Trial.** *JAMA neurology*
Sha, S. J., Deutsch, G. K., Tian, L. n., Richardson, K. n., Coburn, M. n., Gaudioso, J. L., Marcal, T. n., Solomon, E. n., Boumis, A. n., Bet, A. n., Mennes, M. n., van Oort, E. n., Beckmann, et al
2018
- **Accuracy statistics in predicting Independent Activities of Daily Living (IADL) capacity with comprehensive and brief neuropsychological test batteries.** *Applied neuropsychology. Adult*
Karzmark, P. n., Deutsch, G. K.
2017: 1–9
- **Influenza-associated global amnesia and hippocampal imaging abnormality.** *Neurocase*
Lopez, J., Lomen-Hoerth, C., Deutsch, G. K., Kerchner, G. A., Koshy, A.
2014; 20 (4): 446-451
- **APOE {varepsilon}4 worsens hippocampal CA1 apical neuropil atrophy and episodic memory.** *Neurology*
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- **Shared vulnerability of two synaptically-connected medial temporal lobe areas to age and cognitive decline: a seven tesla magnetic resonance imaging study.** *Journal of neuroscience*
Kerchner, G. A., Bernstein, J. D., Fenesy, M. C., Deutsch, G. K., Saranathan, M., Zeineh, M. M., Rutt, B. K.
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- **Learning Disabilities Handbook of Medical Neuropsychology**
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- **Frontoparietal white matter diffusion properties predict mental arithmetic skills in children** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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- **Reading impairment in a patient with missing arcuate fasciculus** *NEUROPSYCHOLOGIA*
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- **Differential sensitivity to words and shapes in ventral occipito-temporal cortex** *CEREBRAL CORTEX*
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- **Functional and morphometric brain dissociation between dyslexia and reading ability** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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- **Neural correlates of rapid auditory processing are disrupted in children with developmental dyslexia and ameliorated with training: An fMRI study** *RESTORATIVE NEUROLOGY AND NEUROSCIENCE*
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- **Neural basis of dyslexia: A comparison between dyslexic and nondyslexic children equated for reading ability** *JOURNAL OF NEUROSCIENCE*
Hoeft, F., Hernandez, A., McMillon, G., Taylor-Hill, H., Martindale, J. L., Meyler, A., Keller, T. A., Siok, W. T., Deutsch, G. K., Just, M. A., Whitfield-Gabrieli, S., Gabrieli, J. D.
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- **Children's reading performance is correlated with white matter structure measured by diffusion tensor imaging** *CORTEX*
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- **Occipital-callosal pathways in children - Validation and atlas development** *Workshop on White Matter in the Cognitive Neurosciences*
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