



Kalanit Grill-Spector

Professor of Psychology

CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

Kalanit Grill-Spector is a Professor in Psychology and the Stanford Neurosciences Institute. Her research examines how the brain processes visual information and perceives it. She uses functional imaging techniques to visualize the living brain in action and understand how it functions to recognize people, objects and places. Additionally, she investigates how the anatomical and functional properties of the brain change from infancy to childhood through adulthood, and how this development is related to improved visual recognition abilities.

She received her PhD from the Weizmann Institute of Science in Israel and was a postdoctoral fellow in Brain and Cognitive Sciences at MIT before joining Stanford University. She has received several awards and honors including the Human Sciences Frontier Fellowship, the Sloan Fellowship, and the Klingenstein Fellowship in Neuroscience. She has served as an Editor for the Journal of Vision and Neuropsychologia. Presently, she has an active and diverse laboratory at the Psychology Department at Stanford University, she is a leader on the Wu Tsai Big idea project on Neurodevelopment, a board member of the Center for Cognitive and Neurobiological Imaging at Stanford University, and is the director of the graduate studies in the Department of Psychology.

ACADEMIC APPOINTMENTS

- Professor, Psychology
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Wu Tsai Institute Bi-Annual Retreat Organizing Committee, co-chair, Wu Tsai Neurosciences Institute, (2018- present)
- Director of Graduate Studies, Department of Psychology, (2018- present)
- Graduate Program Committee Chair, Department of Psychology, Stanford University, (2017- present)
- Neurosciences Institute Annual Retreat Organizing Committee, Stanford Neurosciences Institute, (2017-2018)
- Center for Neurobiological Imaging (CNI), Board member, CNI, Stanford, (2012- present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Reviewing Editor, PLoS Biology (2018 - 2018)
- Editor, Neuropsychologia (2016 - 2018)
- Editor, Journal of Vision (2008 - 2012)
- Editorial Board, NeuroImage (2005 - 2008)

PROGRAM AFFILIATIONS

- Symbolic Systems Program

LINKS

- Vision and Perception Neuroscience Lab: <http://vpnl.stanford.edu>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

For humans, recognition is a natural, effortless skill that occurs within a few hundreds of milliseconds, yet it is one of the least understood aspects of visual perception. Our research utilizes functional imaging (fMRI), diffusion weighted imaging (DWI), computational techniques, and behavioral methods to investigate the neural mechanisms underlying visual recognition in humans. We also examine the development of these mechanisms from childhood to adulthood as well as between populations.

Teaching

COURSES

2019-20

- Computational Neuroimaging: PSYCH 204B (Spr)
- Mapping the human visual system: PSYCH 224 (Win)

2018-19

- Computational Neuroimaging: PSYCH 204B (Spr)
- High-level Vision: From Neurons to Deep Neural Networks: CS 431, PSYCH 250 (Spr)
- Introduction to Perception: PSYCH 30 (Aut)

2017-18

- Computational Neuroimaging: Methods & Analyses: PSYCH 204B (Spr)
- Cortical Plasticity: Perception and Memory: PSYCH 206 (Win)
- Introduction to Perception: PSYCH 30 (Aut)

2016-17

- High-level Vision: From Neurons to Deep Neural Networks: PSYCH 250 (Spr)
- High-level Vision: From Neurons to Deep Neural Networks: PSYCH 250A (Spr)
- Human Neuroimaging Methods: PSYCH 204B (Spr)
- Introduction to Perception: PSYCH 30 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Marc Harrison, Katherine Hermann, Akshay Jagadeesh, Arielle Keller, Shao-Fang Wang, Chengxu Zhuang

Postdoctoral Faculty Sponsor

Mareike Grotheer, Marisa Nordt, Xiaoqian Yan

Doctoral Dissertation Advisor (AC)

Dawn Finzi, Insub Kim, Emily Kubota, Mona Rosenke

Doctoral Dissertation Co-Advisor (AC)

Eshed Margalit

Doctoral (Program)

Dawn Finzi, Mona Rosenke

Postdoctoral Research Mentor

Marisa Nordt, Sonia Poltoratski, Xiaoqian Yan

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **Combined Neural Tuning in Human Ventral Temporal Cortex Resolves the Perceptual Ambiguity of Morphed 2D Images.** *Cerebral cortex (New York, N.Y. : 1991)*
Rosenke, M., Davidenko, N., Grill-Spector, K., Weiner, K. S.
2020
- **Ultra-high-resolution fMRI of human ventral temporal cortex reveals differential representation of categories and domains.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Margalit, E., Jamison, K. W., Weiner, K. S., Vizioli, L., Zhang, R., Kay, K. N., Grill-Spector, K.
2020
- **X-chromosome insufficiency alters receptive fields across the human early visual cortex.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Green, T., Hosseini, H., Piccirilli, A., Ishak, A., Grill-Spector, K., Reiss, A. L.
2019
- **Neural adaptation to faces reveals racial outgroup homogeneity effects in early perception.** *Proceedings of the National Academy of Sciences of the United States of America*
Hughes, B. L., Camp, N. P., Gomez, J., Natu, V. S., Grill-Spector, K., Eberhardt, J. L.
2019
- **Extensive childhood experience with Pokemon suggests eccentricity drives organization of visual cortex** *NATURE HUMAN BEHAVIOUR*
Gomez, J., Barnett, M., Grill-Spector, K.
2019; 3 (6): 611–24
- **Differential sustained and transient temporal processing across visual streams.** *PLoS computational biology*
Stigliani, A., Jeska, B., Grill-Spector, K.
2019; 15 (5): e1007011
- **Separate lanes for adding and reading in the white matter highways of the human brain.** *Nature communications*
Grotheer, M., Zhen, Z., Lerma-Usabiaga, G., Grill-Spector, K.
2019; 10 (1): 3675
- **Apparent thinning of human visual cortex during childhood is associated with myelination.** *Proceedings of the National Academy of Sciences of the United States of America*

- Natu, V. S., Gomez, J., Barnett, M., Jeska, B., Kirilina, E., Jaeger, C., Zhen, Z., Cox, S., Weiner, K. S., Weiskopf, N., Grill-Spector, K.
2019
- **Development of population receptive fields in the lateral visual stream improves spatial coding amid stable structural-functional coupling.** *NeuroImage*
Gomez, J., Drain, A., Jeska, B., Natu, V., Barnett, M., Grill-Spector, K.
2018
 - **The functional neuroanatomy of face perception: from brain measurements to deep neural networks**
Grill-Spector, K., Weiner, K. S., Gomez, J., Stigliani, A., Natu, V. S.
ROYAL SOC.2018
 - **A preference for mathematical processing outweighs the selectivity for Arabic numbers in the inferior temporal gyrus.** *NeuroImage*
Grotheer, M., Jeska, B., Grill-Spector, K.
2018; 175: 188–200
 - **On object selectivity and the anatomy of the human fusiform gyrus** *NEUROIMAGE*
Weiner, K. S., Natu, V. S., Grill-Spector, K.
2018; 173: 604–9
 - **Development differentially sculpts receptive fields across early and high-level human visual cortex** *Nature Communications*
Gomez, J., Natu, V., Jeska, B., Barnett, M., Grill-Spector, K.
2018; 9: 788
 - **Development differentially sculpts receptive fields across early and high-level human visual cortex.** *Nature communications*
Gomez, J., Natu, V., Jeska, B., Barnett, M., Grill-Spector, K.
2018; 9 (1): 788
 - **The functional neuroanatomy of face perception: from brain measurements to deep neural networks.** *Interface focus*
Grill-Spector, K., Weiner, K. S., Gomez, J., Stigliani, A., Natu, V. S.
2018; 8 (4): 20180013
 - **Learning to Read Increases the Informativeness of Distributed Ventral Temporal Responses.** *Cerebral cortex (New York, N.Y. : 1991)*
Nordt, M., Gomez, J., Natu, V., Jeska, B., Barnett, M., Grill-Spector, K.
2018
 - **Data on a cytoarchitectonic brain atlas: effects of brain template and a comparison to a multimodal atlas.** *Data in brief*
Rosenke, M., Weiner, K. S., Barnett, M. A., Zilles, K., Amunts, K., Goebel, R., Grill-Spector, K.
2017; 12: 327-332
 - **Defining the most probable location of the parahippocampal place area using cortex-based alignment and cross-validation.** *NeuroImage*
Weiner, K. S., Barnett, M. A., Withoft, N., Golarai, G., Stigliani, A., Kay, K. N., Gomez, J., Natu, V. S., Amunts, K., Zilles, K., Grill-Spector, K.
2017
 - **Task alters category representations in prefrontal but not high-level visual cortex.** *NeuroImage*
Bugatus, L., Weiner, K. S., Grill-Spector, K.
2017
 - **A cross-validated cytoarchitectonic atlas of the human ventral visual stream.** *NeuroImage*
Rosenke, M., Weiner, K. S., Barnett, M. A., Zilles, K., Amunts, K., Goebel, R., Grill-Spector, K.
2017
 - **Experience Shapes the Development of Neural Substrates of Face Processing in Human Ventral Temporal Cortex** *CEREBRAL CORTEX*
Golarai, G., Liberman, A., Grill-Spector, K.
2017; 27 (2): 1229-1244
 - **Microstructural proliferation in human cortex is coupled with the development of face processing** *SCIENCE*
Gomez, J., Barnett, M. A., Natu, V., Mezer, A., Palomero-Gallagher, N., Weiner, K. S., Amunts, K., Zilles, K., Grill-Spector, K.
2017; 355 (6320): 68-?
 - **The Cytoarchitecture of Domain-specific Regions in Human High-level Visual Cortex** *CEREBRAL CORTEX*
Weiner, K. S., Barnett, M. A., Lorenz, S., Caspers, J., Stigliani, A., Amunts, K., Zilles, K., Fischl, B., Grill-Spector, K.

2017; 27 (1): 146-161

- **The Functional Neuroanatomy of Human Face Perception.** *Annual review of vision science*
Grill-Spector, K., Weiner, K. S., Kay, K., Gomez, J.
2017; 3: 167-96
- **Encoding model of temporal processing in human visual cortex.** *Proceedings of the National Academy of Sciences of the United States of America*
Stigliani, A., Jeska, B., Grill-Spector, K.
2017; 114 (51): E11047-E11056
- **Two New Cytoarchitectonic Areas on the Human Mid-Fusiform Gyrus** *CEREBRAL CORTEX*
Lorenz, S., Weiner, K. S., Caspers, J., Mohlberg, H., Schleicher, A., Bludau, S., Eickhoff, S., Grill-Spector, K., Zilles, K., Amunts, K.
2017; 27 (1): 373-385
- **The Cytoarchitecture of Domain-specific Regions in Human High-level Visual Cortex.** *Cerebral cortex*
Weiner, K. S., Barnett, M. A., Lorenz, S., Caspers, J., Stigliani, A., Amunts, K., Zilles, K., Fischl, B., Grill-Spector, K.
2016: -?
- **Development of Neural Sensitivity to Face Identity Correlates with Perceptual Discriminability.** *journal of neuroscience*
Natu, V. S., Barnett, M. A., Hartley, J., Gomez, J., Stigliani, A., Grill-Spector, K.
2016; 36 (42): 10893-10907
- **The Face-Processing Network Is Resilient to Focal Resection of Human Visual Cortex.** *journal of neuroscience*
Weiner, K. S., Jonas, J., Gomez, J., Maillard, L., Brissart, H., Hossu, G., Jacques, C., Loftus, D., Colnat-Coulbois, S., Stigliani, A., Barnett, M. A., Grill-Spector, K., Rossion, et al
2016; 36 (32): 8425-8440
- **Learning the 3-D structure of objects from 2-D views depends on shape, not format** *JOURNAL OF VISION*
Tian, M., Yamins, D., Grill-Spector, K.
2016; 16 (7)
- **Corresponding ECoG and fMRI category-selective signals in human ventral temporal cortex.** *Neuropsychologia*
Jacques, C., Withoft, N., Weiner, K. S., Foster, B. L., Rangarajan, V., Hermes, D., Miller, K. J., Parvizi, J., Grill-Spector, K.
2016; 83: 14-28
- **Introduction to the special issue on functional selectivity in perceptual and cognitive systems--a tribute to Shlomo Bentin (1946-2012).** *Neuropsychologia*
Deouell, L. Y., Grill-Spector, K., Malach, R., Murray, M. M., Rossion, B.
2016; 83: 1-4
- **Experience Shapes the Development of Neural Substrates of Face Processing in Human Ventral Temporal Cortex.** *Cerebral cortex*
Golarai, G., Liberman, A., Grill-Spector, K.
2015
- **Two New Cytoarchitectonic Areas on the Human Mid-Fusiform Gyrus.** *Cerebral cortex*
Lorenz, S., Weiner, K. S., Caspers, J., Mohlberg, H., Schleicher, A., Bludau, S., Eickhoff, S. B., Grill-Spector, K., Zilles, K., Amunts, K.
2015
- **Temporal Processing Capacity in High-Level Visual Cortex Is Domain Specific.** *journal of neuroscience*
Stigliani, A., Weiner, K. S., Grill-Spector, K.
2015; 35 (36): 12412-12424
- **The evolution of face processing networks.** *Trends in cognitive sciences*
Weiner, K. S., Grill-Spector, K.
2015; 19 (5): 240-241
- **Attention reduces spatial uncertainty in human ventral temporal cortex.** *Current biology*
Kay, K. N., Weiner, K. S., Grill-Spector, K.
2015; 25 (5): 595-600
- **Feature saliency and feedback information interactively impact visual category learning** *FRONTIERS IN PSYCHOLOGY*
Hammer, R., Sloutsky, V., Grill-Spector, K.

2015; 6

- **Functionally defined white matter reveals segregated pathways in human ventral temporal cortex associated with category-specific processing.** *Neuron*
Gomez, J., Pestilli, F., Witthoft, N., Golarai, G., Liberman, A., Poltoratski, S., Yoon, J., Grill-Spector, K.
2015; 85 (1): 216-227
- **Spatiotemporal information during unsupervised learning enhances viewpoint invariant object recognition** *JOURNAL OF VISION*
Tian, M., Grill-Spector, K.
2015; 15 (6)
- **Electrical Stimulation of the Left and Right Human Fusiform Gyrus Causes Different Effects in Conscious Face Perception** *JOURNAL OF NEUROSCIENCE*
Rangarajan, V., Hermes, D., Foster, B. L., Weiner, K. S., Jacques, C., Grill-Spector, K., Parvizi, J.
2014; 34 (38): 12828-12836
- **Electrical stimulation of the left and right human fusiform gyrus causes different effects in conscious face perception.** *journal of neuroscience*
Rangarajan, V., Hermes, D., Foster, B. L., Weiner, K. S., Jacques, C., Grill-Spector, K., Parvizi, J.
2014; 34 (38): 12828-12836
- **Where Is Human V4? Predicting the Location of hV4 and VO1 from Cortical Folding.** *Cerebral cortex*
Witthoft, N., Nguyen, M. L., Golarai, G., LaRocque, K. F., Liberman, A., Smith, M. E., Grill-Spector, K.
2014; 24 (9): 2401-2408
- **The functional architecture of the ventral temporal cortex and its role in categorization.** *Nature reviews. Neuroscience*
Grill-Spector, K., Weiner, K. S.
2014; 15 (8): 536-548
- **The mid-fusiform sulcus: A landmark identifying both cytoarchitectonic and functional divisions of human ventral temporal cortex** *NEUROIMAGE*
Weiner, K. S., Golarai, G., Caspers, J., Chuapoco, M. R., Mohlberg, H., Zilles, K., Amunts, K., Grill-Spector, K.
2014; 84: 453-465
- **Abstracts of Presentations at the International Conference on Basic and Clinical Multimodal Imaging (BaCI), a Joint Conference of the International Society for Neuroimaging in Psychiatry (ISNIP), the International Society for Functional Source Imaging (ISFSI), the International Society for Bioelectromagnetism (ISBEM), the International Society for Brain Electromagnetic Topography (ISBET), and the EEG and Clinical Neuroscience Society (ECNS), in Geneva, Switzerland, September 5-8, 2013.** *Clinical EEG and neuroscience*
He, B. J., Nolte, G., Nagata, K., Takano, D., Yamazaki, T., Fujimaki, Y., Maeda, T., Satoh, Y., Heckers, S., George, M. S., Lopes Da Silva, F., De Munck, J. C., van Houdt, et al
2013: -?
- **Global Similarity and Pattern Separation in the Human Medial Temporal Lobe Predict Subsequent Memory** *JOURNAL OF NEUROSCIENCE*
LaRocque, K. F., Smith, M. E., Carr, V. A., Witthoft, N., Grill-Spector, K., Wagner, A. D.
2013; 33 (13): 5466-5474
- **Neural representations of faces and limbs neighbor in human high-level visual cortex: evidence for a new organization principle** *PSYCHOLOGICAL RESEARCH-PSYCHOLOGISCHE FORSCHUNG*
Weiner, K. S., Grill-Spector, K.
2013; 77 (1): 74-97
- **Electrical Stimulation of Human Fusiform Face-Selective Regions Distorts Face Perception** *JOURNAL OF NEUROSCIENCE*
Parvizi, J., Jacques, C., Foster, B. L., Witthoft, N., Rangarajan, V., Weiner, K. S., Grill-Spector, K.
2012; 32 (43): 14915-14920
- **Face-likeness and image variability drive responses in human face-selective ventral regions** *HUMAN BRAIN MAPPING*
Davidenko, N., Remus, D. A., Grill-Spector, K.
2012; 33 (10): 2334-2349
- **White matter microstructure on diffusion tensor imaging is associated with conventional magnetic resonance imaging findings and cognitive function in adolescents born preterm** *DEVELOPMENTAL MEDICINE AND CHILD NEUROLOGY*
Feldman, H. M., Lee, E. S., Loe, I. M., Yeom, K. W., Grill-Spector, K., Luna, B.
2012; 54 (9): 809-814

- **The improbable simplicity of the fusiform face area** *TRENDS IN COGNITIVE SCIENCES*
Weiner, K. S., Grill-Spector, K.
2012; 16 (5): 251-254
- **The Interplay between Feature-Saliency and Feedback Information in Visual Category Learning Tasks.** *CogSci ... Annual Conference of the Cognitive Science Society. Cognitive Science Society (U.S.). Conference*
Hammer, R., Sloutsky, V., Grill-Spector, K.
2012; 2012: 420-425
- **Synchrony upon repetition: One or multiple neural mechanisms?** *Cognitive neuroscience*
Weiner, K. S., Grill-Spector, K.
2012; 3 (3-4): 243-44
- **Not one extrastriate body area: Using anatomical landmarks, hMT+, and visual field maps to parcellate limb-selective activations in human lateral occipitotemporal cortex** *NEUROIMAGE*
Weiner, K. S., Grill-Spector, K.
2011; 56 (4): 2183-2199
- **Sparsely-distributed organization of face and limb activations in human ventral temporal cortex** *NEUROIMAGE*
Weiner, K. S., Grill-Spector, K.
2010; 52 (4): 1559-1573
- **fMRI-Adaptation and Category Selectivity in Human Ventral Temporal Cortex: Regional Differences Across Time Scales** *JOURNAL OF NEUROPHYSIOLOGY*
Weiner, K. S., Sayres, R., Vinberg, J., Grill-Spector, K.
2010; 103 (6): 3349-3365
- **The Fusiform Face Area is Enlarged in Williams Syndrome** *JOURNAL OF NEUROSCIENCE*
Golarai, G., Hong, S., Haas, B. W., Galaburda, A. M., Mills, D. L., Bellugi, U., Grill-Spector, K., Reiss, A. L.
2010; 30 (19): 6700-6712
- **Controlling stimulus variability reveals stronger face-selective responses near the average face** *17th Annual Meeting on Object Perception, Attention and Memory*
Davidenko, N., Grill-Spector, K.
PSYCHOLOGY PRESS.2010: 122-26
- **Differential development of the ventral visual cortex extends through adolescence.** *Frontiers in human neuroscience*
Golarai, G., Liberman, A., Yoon, J. M., Grill-Spector, K.
2010; 3: 80-?
- **Deos the Bairn Not Raed Ervey Lteter by Istlef, but the Wrod as a Wlohe?** *NEURON*
Grill-Spector, K., Withoft, N.
2009; 62 (2): 161-162
- **The representation of object viewpoint in human visual cortex** *NEUROIMAGE*
Andresen, D. R., Vinberg, J., Grill-Spector, K.
2009; 45 (2): 522-536
- **Fine-Scale Spatial Organization of Face and Object Selectivity in the Temporal Lobe: Do Functional Magnetic Resonance Imaging, Optical Imaging, and Electrophysiology Agree?** *JOURNAL OF NEUROSCIENCE*
Op de Beeck, H. P., DiCarlo, J. J., Goense, J. B., Grill-Spector, K., Papanastassiou, A., Tanifuji, M., Tsao, D. Y.
2008; 28 (46): 11796-11801
- **Relating retinotopic and object-selective responses in human lateral occipital cortex** *JOURNAL OF NEUROPHYSIOLOGY*
Sayres, R., Grill-Spector, K.
2008; 100 (1): 249-267
- **Developmental neuroimaging of the human ventral visual cortex** *TRENDS IN COGNITIVE SCIENCES*
Grill-Spector, K., Golarai, G., Gabrieli, J.
2008; 12 (4): 152-162

- **Object recognition: Insights from advances in fMRI methods** *CURRENT DIRECTIONS IN PSYCHOLOGICAL SCIENCE*
Grill-Spector, K., Sayres, R.
2008; 17 (2): 73-79
- **Representation of shapes, edges, and surfaces across multiple cues in the human visual cortex** *JOURNAL OF NEUROPHYSIOLOGY*
Vinberg, J., Grill-Spector, K.
2008; 99 (3): 1380-1393
- **Differential development of high-level visual cortex correlates with category-specific recognition memory** *NATURE NEUROSCIENCE*
Golarai, G., Ghahremani, D. G., Whitfield-Gabrieli, S., Reiss, A., Eberhardt, J. L., Gabrieli, J. D., Grill-Spector, K.
2007; 10 (4): 512-522
- **Autism and the development of face processing.** *Clinical neuroscience research*
Golarai, G., Grill-Spector, K., Reiss, A. L.
2006; 6 (3): 145-160
- **Autism and the development of face processing** *85th Annual Conference of the Association-for-Reseach-in-Nervous-and-Mental-Disease*
Golarai, G., Grill-Spector, K., Reiss, A. L.
ELSEVIER SCI LTD.2006: 145-60
- **High-resolution imaging reveals highly selective nonface clusters in the fusiform face area** *NATURE NEUROSCIENCE*
Grill-Spector, K., Sayres, R., Ress, D.
2006; 9 (9): 1177-1185
- **Object-selective cortex exhibits performance-independent repetition suppression** *JOURNAL OF NEUROPHYSIOLOGY*
Sayres, R., Grill-Spector, K.
2006; 95 (2): 995-1007
- **Selectivity of adaptation in single units: Implications for fMRI experiments** *NEURON*
Grill-Spector, K.
2006; 49 (2): 170-171
- **Repetition and the brain: neural models of stimulus-specific effects** *TRENDS IN COGNITIVE SCIENCES*
Grill-Spector, K., Henson, R., Martin, A.
2006; 10 (1): 14-23
- **Visual recognition - As soon as you know it is there, you know what it is** *PSYCHOLOGICAL SCIENCE*
Grill-Spector, K., Kanwisher, N.
2005; 16 (2): 152-160
- **The fusiform face area subserves face perception, not generic within-category identification** *NATURE NEUROSCIENCE*
Grill-Spector, K., Knouf, N., Kanwisher, N.
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- **The human visual cortex** *ANNUAL REVIEW OF NEUROSCIENCE*
Grill-Spector, K., Malach, R.
2004; 27: 649-677
- **The neural basis of object perception** *CURRENT OPINION IN NEUROBIOLOGY*
Grill-Spector, K.
2003; 13 (2): 159-166
- **fMR-adaptation: a tool for studying the functional properties of human cortical neurons** *ACTA PSYCHOLOGICA*
Grill-Spector, K., Malach, R.
2001; 107 (1-3): 293-321
- **The lateral occipital complex and its role in object recognition** *VISION RESEARCH*
Grill-Spector, K., Kourtzi, Z., Kanwisher, N.
2001; 41 (10-11): 1409-1422

- **The dynamics of object-selective activation correlate with recognition performance in humans** *NATURE NEUROSCIENCE*
Grill-Spector, K., Kushnir, T., Hendler, T., Malach, R.
2000; 3 (8): 837-843
- **Differential processing of objects under various viewing conditions in the human lateral occipital complex** *NEURON*
Grill-Spector, K., Kushnir, T., Edelman, S., Avidan, G., Itzhak, Y., Malach, R.
1999; 24 (1): 187-203
- **Toward direct visualization of the internal shape representation space by fMRI** *PSYCHOBIOLOGY*
Edelman, S., Grill-Spector, K., Kushnir, T., Malach, R.
1998; 26 (4): 309-321
- **Cue-invariant activation in object-related areas of the human occipital lobe** *NEURON*
Grill-Spector, K., Kushnir, T., Edelman, S., Itzhak, Y., Malach, R.
1998; 21 (1): 191-202
- **A sequence of object-processing stages revealed by fMRI in the human occipital lobe** *HUMAN BRAIN MAPPING*
Grill-Spector, K., Kushnir, T., Hendler, T., Edelman, S., Itzhak, Y., Malach, R.
1998; 6 (4): 316-328