

Aaron Seitz
Professor
University of California Riverside

CURRICULUM VITAE

Contact Information

Aaron Seitz
Department of Psychology
University of California – Riverside
Riverside, CA, 92521

tel: 951-827-6422 (office)
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Education

1998 - 2003 Ph.D. in Cognitive and Neural Systems, Boston University.
Topic: self organizing models of cortical development.
Advisor: Prof. Stephen Grossberg

1995-1997 Post-baccalaureate work in Cognitive Psychology,
University of Washington, Seattle, WA.
Research with: Prof. Elizabeth Loftus, Jeanette Norris

1991-1994 B.A. in Mathematics, Reed College, Portland, OR.

Current Position

2014-present	Professor	University of California - Riverside
2014-present	Director	UCR Brain Game Center For Mental Fitness and Wellbeing

Past Positions

2012-2014	Associate Professor	University of California - Riverside
2008-2012	Assitant Professor	University of California - Riverside
2006-2010	Faculty	CELEST
2005-2008	Research Assitant Professor	Boston University
2005-2008	Visiting Scientist	Martinos Center, Mass General Hospital
2002-2005	Research Fellow	Harvard Medical School
2004-2005	Research Fellow	Boston University
2004	Visiting Researcher	ATR Comp. Neurosci. Labs, Japan
1998-2002	Research Assistant	Boston University
1996-1997	Research Assistant	University of Washington
1992-1994	Software Engineer	WRQ (Seattle, WA)

Affiliated Departments

Psychology, Neuroscience, Biomedical Engineering, Biomedical Sciences

Reviewer

Journals

Acta Psychologica, Behavioral Neuroscience, Attention, AP&P, Cognition, Cognitive Neurodynamics, Cerebral Cortex, Current Biology, Ergonomics, JASA, Journal of Cognitive Neuroscience, Journal of Neuroscience, Journal of Neurophysiology, Journal of Experimental Psychology, Journal of Vision, Neural Networks, Neuron, PLoS One, PLoS Computational Biology, PNAS, Psychological Science, Perception & Psychophysics, Springer Books, Systems, Man and Cybernetics, TopiCS, Vision Research

Grants

NSF/PAC College of Reviewers (2013-2015)
NIH – Central Visual Processing (CVP)
NSF - Cognitive Neuroscience
Netherlands Institute for Scientific Research
Research Foundation Flanders
Complexity

Other

Vision Sciences Society Annual Conference, 2013 Review Committee

Editorial Positions

Reviewing Editor – Frontiers in Integrative Neuroscience
Reviewing Editor – Frontiers in Perception Science

Funded Grants

External

National Institute of Health 1R01EY023582 (2013-2018; \$1,777,418) – Integrating Perceptual Learning Approaches into Effective Therapies for Low Vision

National Science Foundation BCS-1057625 (2011-2014; \$238,675.00) – Collaborative Research: Multisensory Perceptual Learning

Marie Curie (2010 – 2013, EUR 151,200) – Learn 2 Hear & See

PIs: Norbert Kopco, Peggy Series, Barbara Shinn-Cunningham, Aaron Seitz

National Institute Health (2004-2007; \$847,875) -The Mechanisms of Perceptual Learning

PI: Takeo Watanabe (Boston University); Co-PI: Aaron Seitz

National Institute Health (R21 2006-2008; \$440,000) – Effects of Reward on Visual Processing and Plasticity

PI: Takeo Watanabe (Boston University); Co-PI: Aaron Seitz

Nation Science Foundation (2006-2009; \$500,000) – Neural Basis and Mechanisms of Task-Irrelevant Perceptual Learning

PI: Takeo Watanabe (Boston University); Co-PI: Aaron Seitz

Human Frontier Science group grant (2004-2007; \$480, 000) (PI – Watanabe)

Co-PIs: Wolfram Schultz (University of Cambridge), Rufin Vogels (University of Leuven), Masamichi Sakagami (Tamagawa University)

Internal

UCR Seed Grant (2013-14) - Aaron Seitz and Victor Zordan, "The University of California Riverside Brain Game Center for Mental Fitness and Wellbeing", \$70,000

UCR Seed Grant (Summer 2013) - Aaron Seitz and Victor Zordan, "Video Game for Memory Improvement", \$15,924

UCR Senate COR Fellowship (2012-14) – Aaron Seitz, "Development of Perceptual Learning Approaches for Low Vision Populations", \$7,500

Chancellor's Strategic Investment Funds (2011-12) – Aaron Seitz, \$27,000

Chancellor's Strategic Investment Funds (2011-13) – Christian Chiarello and Aaron Seitz, Seed money of UC Riverside Human Imaging Center, \$94,000

UCR Academic Senate - Regents Faculty Fellowship (2009-10) – Aaron Seitz, "Effect of Caffeine and Nicotine on the Consolidation of Learning and Memory", \$9,500

Honors and Awards

NIH Postdoctoral Training Grant (2003-2005)

Sigma Xi Award (2002)

Presidential University Graduate Fellowship, Boston University (1998-2002)

Professional Societies

American Association for Advancement of Science

American Psychological Society

International Neural Network Society

Society for Neuroscience

Sigma Xi

Vision Sciences Society

Publications

1. Barakat, **Seitz** and Shams (2014). "Visual Rhythm Perception Improves Through Auditory, But Not Visual, Training", *Current Biology*, Vol. 25, Issue 2, R60-R61
2. Deveau, Jaeggi, Zordan, Phung, and **Seitz** (2014). "How to build better memory training games", *Frontiers in Systems Neuroscience*, doi: 10.3389/fnsys.2014.00243
3. Kim, Seitz, Watanabe (2015). "Visual perceptual learning by operant conditioning training follows rules of contingency", *Visual Cognition*, in press
4. Hoffing and **Seitz** (2014). "Pupillometry as a glimpse into the neurochemical basis of human memory encoding", *Journal of Cognitive Neuroscience*, Vol. 27, No. 4: 765-774

5. Hung and **Seitz** (2014). "Prolonged Training at Threshold Promotes Robust Retinotopic Specificity in Perceptual Learning", *Journal of Neuroscience*, 34(25): 8423-8431
6. Leclercq, Hoffing, **Seitz** (2014). "Uncertainty in fast-task-irrelevant perceptual learning boosts learning of images in women but not men." *Journal of Vision*, 14(12):26, 1-12
7. Deveau and **Seitz** (2014). "Applying Perceptual Learning to achieve practical changes in vision.", *Frontiers in Psychology*, 5:1166. doi: 10.3389/fpsyg.2014.01166
8. Sotiropoulos, **Seitz**, Series (2014). "Contrast dependency and prior expectations in human speed perception", *Vision Research*, Vol 97, 16-23
9. Deveau, Lovcik, and **Seitz** (2014). "Applications of Perceptual Learning to Ophthalmology", *Ophthalmology*
10. Deveau, Lovcik, and **Seitz** (2014). "The therapeutic benefits of perceptual learning", *Current Trends in Neurology*, Vol 7, 39-49.
11. Yarrow, Razak, **Seitz**, and Series (2014). "Detecting and Quantifying Topography in Neural Maps", *PLoS ONE*, DOI: 10.1371/journal.pone.0087178
12. Deveau, Ozer and **Seitz** (2014). "Improved Vision and On Field Performance in Baseball through Perceptual Learning", *Current Biology*, 24(4), R146-7
13. Leclercq, Le Dantec, and **Seitz** (2014). "Encoding of episodic information through fast Task-Irrelevant Perceptual Learning", *Vision Research*, Jun;99:5-11.
14. Deveau, Lovcik, and **Seitz** (2014). "Broad-based visual benefits from training with an integrated perceptual-learning video game", *Vision Research*, Jun;99:134-40.
15. Yarrow, Razak, **Seitz**, and Series (2013). "Detecting and Quantifying Topography in Neural Maps", *PLoS ONE*, in press.
16. Holloway, Nanez and **Seitz** (2013). "Word-decoding as a function of temporal processing in the visual system", *PLoS ONE*, in press.
17. Leclercq, Le Dantec, and **Seitz** (2013). "Encoding of episodic information through fast Task-Irrelevant Perceptual Learning", *Vision Research*, in press.
18. Barakat, **Seitz**, and Shams (2013). "The effect of statistical learning on internal stimulus representations: Predictable items are enhanced even when not predicted", *Cognition*, in press.
19. Series and **Seitz** (2013). "Learning what to expect (in visual perception)", *Frontiers in Human Neuroscience*, doi: 10.3389/fnhum.2013.00668.
20. Leclercq, Le Dantec, and **Seitz** (2013). "Encoding of episodic information through fast Task-Irrelevant Perceptual Learning", *Vision Research*, in press.
21. Hládek, Le Dantec, Kopčo, and **Seitz** (2013). "Ventriloquism effect and aftereffect in the

distance dimension", Proceedings of Meetings on Acoustics, 19, 050042:1-6.

22. Welch and **Seitz** (2013). "Processing Irrelevant Location Information: Practice and Transfer Effects in a Simon task", PLoS ONE, in press.
23. Jackson, Cook, **Seitz** (2013). "Context is quick, knowledge is slow: rapid time-course of contextual modulations in the horizontal-vertical illusion", Perception and Motor Skills, in press.
24. Gekas, Chalk, **Seitz** and Seriès (2013), "Complexity and specificity of experimentally induced expectations in motion perception", *Journal of Vision*, in press
25. **Seitz** (2013). "Cognitive Neuroscience: Targeting Neuroplasticity with Neural Decoding and Biofeedback", *Current Biology*, in press
26. Leclercq and **Seitz** (2012). "The impact of orienting attention in fast task-irrelevant perceptual learning", *Attention, Perception, & Psychophysics*, May, 74(4), 658-60.
27. Le Dantec and **Seitz** (2012). "High Resolution, High Capacity, Spatial Specificity in Perceptual Learning", *Frontiers in Psychology*, July 3(222), 1-7.
28. Leclercq and **Seitz** (2012). "Enhancement from targets and suppression from cues in fast task-irrelevant perceptual learning", *Acta Psychologica*, Sept. 141(1), 31-8.
29. Leclercq and **Seitz** (2012). "Fast-TIPL Occurs for Salient Images Without a Memorization Requirement in Men but not in Women", *PLoS ONE*, Apr. 7(4):e36228. Epub 2012.
30. Le Dantec, Melton, and **Seitz** (2012). "A triple dissociation between learning of target, distractors and spatial contexts", *Journal of Vision*, Feb 3;12(2).
31. Kaufman, Green, **Seitz**, and Burgess (2012). "Using a Self-Organizing Map (SOM) and the Hyperspace Analog to Language (HAL) model to identify patterns of syntax and structure in the songs of humpback whales", *International Journal of Comparative Psychology*, 25, 237-275.
32. Vlahou, Protopapas, **Seitz** (2012). "Implicit Training of Nonnative Speech Stimuli", *Journal of Experimental Psychology: General*, May;141(2):363-81.
33. Sotiropoulos, **Seitz**, Series (2011). "Changing expectations about speed alters perceived motion directions", *Current Biology*, Volume 21, Issue 21, R883-R884.
34. **Seitz** (2011). "Perceptual Learning; Stimulus Specific Learning From Low-level Visual Plasticity?", *Current Biology*, Volume 21, Issue 19, R814-R815
35. Shams, Wozny, Kim, **Seitz** (2011). "Influences of multisensory experience on subsequent unisensory processing", *Frontiers in Perception Science*, 2:264.

36. Yotsumoto, **Seitz**, Shimojo, Sakagami, Watanabe, Sasaki (2011). "Performance dip in motor response induced by task-irrelevant weaker coherent visual motion signals", *Cerebral Cortex*, Aug, 22 (8), 1887-93.
37. Batson, Beer, **Seitz**, Watanabe (2011). "Spatial Shifts of Audio-visual Interactions by Perceptual Learning Are Specific to the Trained Orientation and Eyes", *Seeing and Perceiving*, 24(6):579-94.
38. Hung and **Seitz** (2011). "Retrograde Interference in Perceptual Learning of a Peripheral Hyperacuity Task", *PLoS ONE* 6(9): e24556.
39. Leclercq and **Seitz** (2011). "Fast task-irrelevant perceptual learning is disrupted by sudden onset of central task elements", *Vision Research*, May 15;61:70-6.
40. Grady, Marie-Pierre, **Seitz** (2011). "Segmentation from a box", *ICCV. 2011*.
41. Sotiropoulos, **Seitz**, Series (2011). "Perceptual learning in visual hyperacuity: A reweighting model", *Vision Research*, Volume 51, Issue 6, 25 March 2011, Pages 585-599.
42. **Seitz** (2011). "Task-Irrelevant Perceptual Learning", *Encyclopedia of the Sciences of Learning*, in press.
43. Dobres and **Seitz** (2010). "Perceptual Learning of Oriented Gratings as Revealed by Classification Images", *Journal of Vision*, Vol. 10, No. 13, DOI: 10.1167/10.13.8.
44. **Seitz** (2010). "Sensory Learning: Rapid Extraction of Meaning from Noise", *Current Biology*, Volume 20, Issue 15, R643-R644
45. Chalk¹, **Seitz**¹, Series (2010). "Rapidly learned stimulus expectations alter perception of motion", *Journal of Vision*, 10(8), 2.
46. **Seitz**¹, Protopapas¹, Tsushima¹, Vlahou, Gori, Grossberg, Watanabe (2010). "Unattended exposure to components of speech sounds yields same benefits as explicit auditory training", *Cognition*, 115(3), 435-443
47. Pilly, Grossberg, **Seitz** (2009). "Low-level sensory plasticity during task-irrelevant perceptual learning: Evidence from conventional and double training procedures", *Vision Research* 50(4), 424-432.
48. **Seitz** and Watanabe (2009). "The Phenomenon of Task-Irrelevant Perceptual Learning", *Vision Research*, Vol 49 (21), Oct. 2009, Pages 2604-2610
49. Choi, **Seitz**, Watanabe (2009). "When Attention Interrupts Learning: Inhibitory Effects of Attention on TIPL", *Vision Research*, *Vision Research*, Vol 49 (21), Oct. 2009, Pages 2604-2610
50. Franko, **Seitz**, Vogels (2009). "Dissociable neural effects of long term stimulus-reward pairing in macaque visual cortex", *Journal of Cognitive Neuroscience*, July 2010, Vol. 22, No. 7, Pages 1425-1439.

51. Kim, **Seitz**, Feenstra, Shams (2009). "Testing Assumptions of Statistical Learning: Is it Long-term and Implicit?", *Neuroscience Letters*, 461(2), 11 Sept. 2009, Pages 145-149
52. Pilly and **Seitz** (2009). "What a difference a parameter makes: a psychophysical comparison of random dot motion algorithms", *Vision Research*, Vol 49, Issue 13, July 2009, Pages 1599-1612
53. **Seitz**¹, Kim¹, Watanabe (2009). "Rewards Evoke Learning of Unconsciously Processed Visual Stimuli in Adult Humans", *Neuron*, March, 12; 61, 700-7
54. **Seitz** and Watanabe (2008). "Is Task-Irrelevant Learning really Task-Irrelevant?", *PLoS ONE*, 3(11): e3792. doi:10.1371/journal.pone.0003792
55. Shams and **Seitz** (2008). "Benefits of multisensory learning", *Trends in Cognitive Science*, Nov (Vol 12(11) 411-417
56. **Seitz**, Pilly, Pack (2008). "Interactions between contrast and spatial displacement in visual motion processing", *Current Biology*, Oct 14;18(19):R904-6
57. Tsushima¹, **Seitz**¹ and Watanabe (2008). "Task-irrelevant learning occurs only when the irrelevant feature is weak", *Current Biology*, Jun (Vol 18 (12) R516-7)
58. Kim¹, **Seitz**¹, and Shams (2008). "Benefits of Stimulus Congruency for Multisensory Facilitation of Visual Learning", *PLoS ONE*, 3(1): e1532. doi:10.1371/journal.pone.0001532
59. Nishina¹, **Seitz**¹, Kawato, Watanabe (2007). "Effect of spatial distance to the task stimulus on task-irrelevant perceptual learning of static Gabors", *Journal of Vision*, 7(13):2, 1-10
60. **Seitz**, Kim, Van Wassenhove, and Shams (2007). "Simultaneous and Independent Acquisition of Multisensory and Unisensory Associations" *Perception*, 36, 1445 - 1453.
61. **Seitz** and Dinse (2007), "A Common Framework for Perceptual Learning", *Current Opinion of Neurobiology*, April (17(2) 148-153)
62. **Seitz** (2007), Book review of "Visual Masking Time Slices Through Conscious and Unconscious Vision", *Neural Networks* by Bruno Breitmeyer and Haluk Ogmen, doi:10.1016/j.neunet.2007.05.002
63. **Seitz**, Nanez, Holloway, and Watanabe (2006). "Perceptual learning of motion leads to faster flicker perception", *PLoS ONE* 1(1): e28. doi:10.1371/journal.pone.0000028
64. **Seitz**, Nanez, Holloway, Tsushima, and Watanabe (2006). "Two cases requiring external reinforcement in perceptual learning", *Journal of Vision*, 6(9), 966-973
65. **Seitz**¹, Kim¹, Shams, (2006). Sound Facilitates Visual Learning, *Current Biology*, Jul (Vol 16 (14) 1422-1427)

66. Lee¹, Seitz¹, and Assad (2006), "Activity of Tonicly Active Neurons in the Monkey Putamen during Initiation and Withholding of Movement", *J. Neurophys*, Jan (Vol 95 2391-2403)
67. Seitz¹, Yamagishi¹, Werner¹, Goda, Kawato, Watanabe (2005). "Task specific disruption of perceptual learning", *PNAS*, Oct 3; 10.1073/pnas.0505765102
68. Seitz, Lefebvre, Watanabe, and Jolicoeur (2005). "The requirement of high-level processing in subliminal learning", *Current Biology*, Sep (Vol 15(18) R753-755).
69. Seitz and Watanabe (2005). "A unified model of task-irrelevant and task-relevant perceptual learning", *Trends in Cognitive Science*, Jul (Vol 9(7) 329-334).
70. Seitz, Nanez, Holloway, Koyama, and Watanabe, "Seeing what isn't there; the costs of perceptual learning", *PNAS*, Jun 21;102(25):9080-5
71. Seitz, Nanez, Holloway, and Watanabe (2005). "The effects of experience on Critical Flicker Fusion Thresholds", *Hum Psychopharmacol Clin Exp*, 20: 55-60.
72. Seitz and Watanabe (2003). "Is subliminal learning really passive?" *Nature*, Mar 6 (Vol 422(6927): 36).
73. *Grossberg and Seitz (2003). "Laminar Development of Receptive Fields, Maps, and Columns in Visual Cortex: The Coordinating Role of the Subplate." *Cerebral Cortex*, Aug (Vol (8): 852-863).
74. Mazzoni, Loftus, Seitz, and Lynn, (1999). "Changing beliefs and memories through dream Interpretation." *Applied Cognitive Psychology*, Apr (Vol 13(2): 125-144).

¹ Co-First Authors *Authorship is in Alphabetical order

Symposia Talks

"How attention and reinforcement guide perceptual learning." APCV, 2013

"How attention and reinforcement guide perceptual learning." Workshop on attention and learning, 2013

"Psychophysics: How attention and reinforcement guide perceptual learning." International Graduate School of Neuroscience, Ruhr University Bochum, 2013

"Mechanisms of Human Perceptual Learning." Brain Awareness Day, UCR, 2013

"When science meets gaming; a novel visual therapy." ESCONS, 2013

"Task-Irrelevant Auditory Learning", ESCOP, 2011.

"Disruption and Transfer of Perceptual Learning for Visual Hyperacuity", VSS, 2011.

"Overcoming the Difficulties of Perceptual Learning", VSS, 2006.

“How We Can Learn to See What Isn't There”, Implicit Processing in Visual Perception, Decision Making and Learning, APA, 2005.

“Rethinking the roles of attention in perceptual learning”, Windows into the dynamic brain *A mini-Symposium*, Department of Biomedical Engineering, Boston University, 2005.

Invited Talks

University of Washington, Department of Psychology, 2014

University of Southern California, Department of Neuroscience, 2013

University of California, Los Angeles, Department of Psychology, 2013

University of California, Berkeley, Oxyopia Lecture 2013

University of California, Irvine, Department of Cognitive Science, 2013

Peking University, Department of Psychology, 2013

University of Leuven, Belgium 2013

Riverside STEM Academy, 2013

Western School of Optometry, 2012

University of California, Riverside, Program in Video Bioinformatics, 2012

University of California, Irvine, Department of Cognitive Science, 2011

University of California, San Diego, Department of Psychology 2011

University of California, Riverside, Department of Psychology 2011

Ruhr University Bochum, Institut für Neuroinformatik, 2010

University of Birmingham, School of Psychology, 2009

Newcastle University, Institute of Neuroscience, 2009

Ecole Polytechnique Federale Lausanne, Switzerland 2009

Ruhr University Bochum, International Graduate School of Neuroscience, 2009

University of Edinburgh, DTC Workshop Series, 2009

University of California, Santa Barbara, Department of Psychology 2009

University of California, Berkeley, Oxyopia Lecture 2009

University of California, Riverside, Neuroscience Seminar 2008

University of California San Diego, Department of Cognitive Sciences 2008

University of California Riverside, Department of Psychology 2008

University of Leuven, Belgium 2008

Massachusetts Institute of Technology, Department Brain and Cognitive Sciences 2007

University of Rochester, CVS Boynton Colloquium Series Presentation 2007

Ohio State University, Department of Psychology, 2007

University of California, Los Angeles, Department of Psychology, 2007

Tamagawa University, Japan 2006

University of California, Los Angeles, Department of Psychology, 2006

University of California, Los Angeles, Department of Psychology, 2005

Martinos Center, Massachusetts General Hospital, 2005

Cambridge University, England UK 2005

Advanced Telecommunications Research Institute International, Japan 2005

Denso Corporation, Japan, 2005

Boston University, Department of Psychology 2002

Conference Presentations

Barakat, Seitz and Shams (2013), Visual rhythm perception is facilitated by multisensory (but not unisensory) training, SFN

Bays, Bula, LeDantec and Seitz (2013), BDNF val66met polymorphism is associated with differential learning in a statistical learning paradigm

Hladek, Le Dantec, Kopco, and Seitz (2013), "Ventriloquism effect and aftereffect in the distance dimension", ASA

Hladek, Tomonova, Seitz and Kopco (2013), "Rapid recalibration of auditory distance perception in reverberant environments", ARO

Welch and Seitz (2014), "Practice and Transfer Effects: Implications for development of computer-based training." ADEA

Hung and Seitz (2013), "Spatial Specificity in a 3-dot Hyperacuity Task after Double Training", VSS

Deveua, Lovcik, and Seitz (2013), "Visual Improvements Through the Perceptual Learning Based Training Program ULTIMEYESTM", VSS

Bays, Turk-Browne, and Seitz (2013), Dissociating Behavioral Outcomes of Visuo-temporal Statistical Learning", VSS

Yarrow, Razak, Seitz, Series (2013), "Detecting and quantifying topographic order in neural maps" COSYNE

Deveau, Lovcik, Seitz (2013), "Visual Improvements Through the Perceptual Learning Based Training Program UltimEyes", ESCONs 2.0

Seitz (2012), “Two Stories of Fast-Implicit Learning”, 3rd International Workshop on Perceptual Learning

Seitz (2012), “The Phenomenon of Task-Irrelevant Perceptual Learning”, CVS Symposium on Computational Foundations of Perception and Action

Seitz and Leclercq (2012), “Fast Task-Irrelevant Learning: How different types of attention and task-relevance impact memorization of rapidly presented images”, VSS

Barakat, Seitz, and Shams (2012), “There is more to statistical learning than associative learning; Predictable items are enhanced even when not predicted”, VSS

Gekas, Seitz, and Series (2012), “Investigating the specificity of experimentally induced expectations in motion perception”, VSS

Sotiropoulos, Seitz and Series (2012), “How plastic is the “slow speeds prior” Cosyne

LeDantec and Seitz (2011), “Orientation and location specificities in the co-development of perceptual learning and contextual learning”, ECVF

LeDantec and Seitz (2011), “Perceptual and contextual learning of a visual search”, VSS

Kopčo, Silvera, Tskhay, Tomoriová, and Seitz (2011), “Learning of reverberation cues for auditory distance perception in rooms”, ASA

Klein, Carney, Levi, Yu, Seitz (2011), “Modelfest for Perceptual Learning”, VSS

Kim, Berard, Seitz, Watanabe (2011), “The role of contiguity and contingency in visual perceptual learning”, VSS

Seitz, “Task-Irrelevant Auditory Learning” (2011), 2nd International Workshop on Perceptual Learning

LeDantec and Seitz (2010), “Perceptual and contextual learning of a visual search”, SFN

LeDantec and Seitz (2010), “The co-development of Perceptual Learning and Contextual Learning in a visual search task”, ECVF

Seitz, Chalk, Series (2010), “Rapidly learned expectations alter perception of motion”, VSS

Kim, Seitz, Watanabe (2010), “Different properties between reward-driven exposure-based and erward-driven task involved perceptual learning”, VSS

Náñez, Reyes, Fabian, Ojeda, Dominguez, Berber, Gil-Faddis, Ucelo, Davis, and Seitz (2010), “Effects of Trial Number and Time Differences on Visual Perceptual Learning”, WPA

Razak and Seitz (2010). “A cortical population code for sound locations”, ARO

Khafi and Seitz (2010), “The Effects of Caffeine And Nicotine On Learning”, UCR Undergraduate Research Symposium

Sotiropoulos, Seitz, Series (2009), "Perceptual learning in visual hyperacuity: a reweighting model", BCCN

Chalk, Seitz, Series (2009), "Feature-based attention biases perception of motion direction" BCCN

Pilly, Seitz and Grossberg (2009). Contrast polarity-specific learning of motion in the absence of attention. Proceedings of the 13th International Conference on Cognitive and Neural Systems (ICCNS), Boston MA, May.

Seitz, Pilly and Pack, C.C. (2009). Can lowering the contrast of a moving stimulus improve the perception of its motion direction? Proceedings of the 13th International Conference on Cognitive and Neural Systems (ICCNS), Boston MA, May.

Dobres and Seitz (2009) "Perceptual Learning of Noisy Oriented Gratings as Revealed by Classification Images" VSS

Pilly, Seitz and Grossberg (2009). "Where in the motion pathway does task-irrelevant perceptual learning occur?" VSS

Seitz, Pilly and Pack (2009) "Reducing contrast improves direction estimation at low speeds", VSS

Vlahou, Seitz, Protopapas (2009), Implicit learning of non-native speech stimuli, ASA

Tsushima, Seitz, and Watanabe (2008). The role of attention in perceptual learning. NIN, Amsterdam, Netherlands

Seitz (2008). The role of reward in perceptual learning, First Annual Workshop in Perceptual Learning, Beijing China.

Wozny, Seitz, & Shams (2008) Learning associations between simple visual and auditory features, VSS

Kim, Seitz, & Watanabe (2008) Reward contingency on perceptual learning does not follow rules of classical conditioning, VSS

Tsushima, Seitz, & Watanabe (2008) Task-irrelevant perceptual learning occurs only when the irrelevant feature is weak, VSS

Kim, Seitz, & Shams (2008) Neural mechanisms of multisensory perceptual learning, VSS

Seitz, Kim, Watanabe, (2007), "Reward driven, ocular specific, learning of orientation in the absence of awareness", SFN

Franko, Seitz, Vogels, (2007), "Effect of stimulus-reinforcement pairing on the local field potentials for suprathreshold, ipsilateral stimuli in macaque visual cortex"

Kim, Seitz, Shams, (2007), "Congruent sound facilitates visual perceptual learning", SFN

Bartfield, Jourdani, Yorio, Zanutto, Seitz, (2007), “Reward driven learning of associative-rules in the absence of awareness”, SFN

Kim, Seitz, Watanabe, (2007), “Effect of Reward on Perceptual Learning”, VSS

Batson, Beer, Seitz, Watanabe, (2007), “Specificity of Crossmodal Links in Exogenous Covert Orienting”, VSS

Kim, Seitz, Shams (2007), “Visual Perceptual Learning Enhanced with Congruent Sound”, VSS

Nishina, Seitz, Kawato, Watanabe (2007), “Subliminal visual feature is learned better when spatially closer to attended task”, VSS

Franko, Seitz, and Vogels (2006), “Effect of stimulus-reinforcement pairing on the local field potentials in macaque visual cortex” SFN

Seitz (2006), “Reinforcement and Blinks in Perceptual Learning” ASIC

Holloway, Tsushima, Nanez, Watanabe, Seitz (2006), “Two Cases of a Requirement of External Reinforcement in Perceptual Learning”, VSS

Kim, Seitz and Shams (2006), “Multisensory perceptual learning”, VSS

Náñez Sr., Holloway, Donahoe, & Seitz (2006), “Flicker Fusion as a Correlate of Word Decoding Ability”, VSS

Shams, Wassenhove, Seitz (2006), “Audio-Visual Statistical Learning”, VSS

Nishina, Seitz, Kawato, Watanabe (2006), “The spatio-temporal window of task-irrelevant perceptual learning”, VSS

Seitz, Náñez Sr., Holloway, and Watanabe (2006), “Perception learning of motion leads to faster-flicker perception”, VSS

Yotsumoto, Seitz, Sasaki, Shimojo, Yamamoto, Kogure, Sakagami and Watanabe (2006), “Greater response conflict from weaker visual signals”, VSS

Nishina, Seitz, Kawato, Watanabe (2005). “The spatial spread of task-irrelevant perceptual learning”, SFN.

Holloway, Nanez, Seitz and Watanabe (2005). “The Relationship between Flicker Fusion and Subliminally Induced Neural Plasticity”, OSA.

Holloway, Seitz, Nanez and Watanabe (2005). “Dorsal Stream Perceptual Learning is Highly Related to Critical Flicker Fusion Thresholds”, OSA.

Holloway, Seitz, Náñez. Watanabe (2005). “A Subliminal Experience can alter Critical Flicker Fusion”, APS.

Seitz, Nanez, Holloway, Koyama, Watanabe (2005). "Seeing what isn't there; the costs of perceptual learning", VSS.

Lefebvre, Seitz, Watanabe, Jolicoeur (2005). "Learning Blinks During the Attentional Blink", VSS

Nanez, Seitz, Holloway, Koyama, Watanabe (2005). "Subliminal Perceptual Learning of Motion Results in Improvements of Critical Flicker Fusion Thresholds", VSS.

Yamagishi, Seitz, Werner, Kawato, Watanabe (2005). "Task specific disruption of perceptual learning", VSS.

Holloway, Seitz, Nanez, Engles. Watanabe (2004). "Critical Flicker Fusion Threshold as a Function of Subliminal Neural Plasticity", NAN.

Seitz, Nanez, Sasaki, Engles, Holloway, and Watanabe (2003). "Learning spillover to invisible dots?", ECVF.

Seitz and Watanabe (2003). How can subliminal perceptual learning be active? *Journal of Vision*, 3(9), 177a.

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