

MARISA CARRASCO
Curriculum Vitae

CONTACT INFORMATION

Department of Psychology New York University 6 Washington Pl. NY, NY 10003 Office: (212) 998-8328 lab : (212) 998-3894 fax: (212) 995-4349 email: marisa.carrasco@nyu.edu	1 Washington Square Village Penthouse H NY, NY 10012 (212) 253-5333 Place of birth: Mexico City U.S. Permanent Resident - 10/1989 Married: James D. Fernández Children: Andrés (1992); Alejandro (1995)
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EDUCATION

1989	Ph.D. Psychology, Princeton University Specialization: Cognition & Perception
1986	M.A. Psychology, Princeton University Specialization: Cognition & Perception
1984	Licentiate in Psychology, Major: Human Experimental Psychology National University of Mexico (UNAM), Mexico City

PROFESSIONAL EXPERIENCE

2010 –	Director of Undergraduate Research, College of Arts and Science, NYU
2007 –	Collegiate Professor, NYU
2001 – 2007	Chair of Psychology, NYU
2002 –	Professor of Psychology and Neural Science, NYU
2000 – 2001	Associate Chair of Psychology, NYU
1995 – 2002	Associate Professor of Psychology and Neural Science, NYU
1989 – 1995	Assistant Professor, Psychology, Wesleyan University
1988 – 1989	Instructor, Psychology, Wesleyan University
1984 – 1987	Graduate Teaching Assistant, Princeton University Perception and Introduction to Psychology
1982 – 1983	Laboratory Instructor, Human Information Processing National University of Mexico (UNAM)
1982 – 1984	Research Assistant, Visual Cognition National University of Mexico (UNAM)

RESEARCH SUPPORT, HONORS & AWARDS

NIH Grant (2010-2014). "Attention and Perceptual Learning". (PI)

NIH Grant (2010-2015). "The Normalization model of attention: Theory, Psychophysics, and Neuroimaging" (PIs: Marisa Carrasco and David Heeger)

NSF ADVANCE (2010-2011). "Attention and Perceptual Learning" (awarded via NYU)

American Psychological Society, Fellow (2007).

NIH Grant (2006-2010). National Eye Institute. "Effects of covert attention on early visual processing" (PI)

Binational Science Foundation (US-Israel, 2002-2005). "Adaptability of attentional mechanisms" (PIs: Marisa Carrasco and Yaffa Yeshurun)

NSF Grant (2000-2003). "Effects of covert attention on early visual processing" (PI)

Guggenheim Fellow (1999-2000).

James McKeen Cattell Sabbatical Fellow (1999-2000).

NYU Curricular Development Grant (2000-2001). "Workshop on Cognitive Neural Imaging: fMRI technology"

NYU Challenge Fund (1999-2000). "Psychophysical and functional magnetic resonance imaging (fMRI) studies of visual attention"

NSF National Young Investigator Award (1993-1998; matching funds 1994-1999), "to scientists displaying excellent research and excellent teaching as well as potential for continued professional growth as a scientist and academic leader"

The NYU Margaret and Herman Sokol Science Research Fund (1998-1999)

The NYU Horace W. Goldsmith Neuroscience Research Fund (1997-1999)

American Fellowship from the American Association of University Women (AAUW) Educational Foundation (1991-1992)

Wesleyan University Project Grant (annually, 1989-1995)

Hughes Student-Faculty Fellowship in Neuroscience (annually, 1990-1993)

Ford Foundation Student-Faculty Fellowship (Summers 1989-1993)

Fellowship to attend the First McDonnell Summer Institute in Cognitive Neuroscience (1988), Harvard University, MA

Porter Ogden Jacobus Honorary Fellowship, The Graduate School of Princeton University (1987-1988) conferred "to that student who has displayed the highest scholarly excellence"

National University of Mexico (UNAM) International Graduate Fellowship (1985-1987)

Merit Fellowship, Graduate School of Princeton University (1984-1987)

Award for distinguished first year graduate students, Princeton University (1984-1985)

Highest Honors for Licentiate Thesis. Psychology, National University of Mexico (1984)

PROFESSIONAL AFFILIATIONS

American Association for the Advancement of Science (AAAS)
American Association of University Women (AAUW)
American Psychological Society (APS)
Association for Research in Vision & Ophthalmology (ARVO)
Cognitive Neuroscience Society (CNS)
Psychonomic Society
Sigma Xi Research Society
Society for Neuroscience (SfN)
Vision Sciences (VSS)

JOURNAL PUBLICATIONS [*undergraduate; #graduate students; ^postdoctoral fellow]

- White, A.L. #, Lunau, R. & **Carrasco, M.** (2013, July 22). The attentional effects of single cues and color singletons on visual sensitivity. *Journal of Experimental Psychology: Human Perception and Performance*, Advance online publication, doi: 10.1037/a0033775.
- Pomplun, M., Garaas, T. & **Carrasco, M.** (2013). The effects of task difficulty on visual search strategy in virtual 3D displays. *Journal of Vision*, 13(3), 1-22.
- Rolfs, M.^, Lawrence, B.M. & **Carrasco, M.** (2013). Reach preparation enhances visual performance and appearance. *Philosophical Transactions of the Royal Society: Biological Sciences*, 368, 1-8.
- Carrasco, M.**, Eckstein, M., Krauzlis, R. & Verghese, P. (2013). Editorial: Attentional modulation: Target selection, active search and cognitive processing. *Vision Research*, 85, 1-4.
- Anton-Erxleben, K.^, & **Carrasco, M.** (2013). Attentional enhancement of spatial resolution: Linking behavioral and neurophysiological evidence. *Nature Reviews Neuroscience*, 14, 188-200.
- White, A.#, Rolfs, M.^, & **Carrasco, M.** (2013). Adaptive deployment of spatial and feature-based attention before saccades. *Vision Research*, 85, 26-35.
- Anton-Erxleben, K.^, Herrmann, K., & **Carrasco, M.** (2013). Independent effects of adaptation and attention on perceived speed. *Psychological Science*, 24(2), 150-159.
- Grubb, M.#, Behrmann, M., Egan, R., Minshew, N.J., **Carrasco, M.** & Heeger, D.J. (2013). Endogenous spatial attention: evidence for intact functioning in adults with autism. *Autism Research*, 6, 108-118.
- Ferneyhough, E.#, Kim, M.K., Phelps E.A. & **Carrasco, M.** (2013). Anxiety modulates the effects of emotion and attention on early vision. *Cognition & Emotion*. 27(1): doi:10.1080/02699931.2012.68995.
- Rolfs, M.^ & **Carrasco, M.** (2012). Rapid simultaneous enhancement of visual sensitivity and perceived contrast during saccade preparation. *Journal of Neuroscience*, 34(40), 13744-13752.

- Perini, F., Cataneo, L., **Carrasco, M.** & Schwarzbach, J.V. (2012). Occipital TMS has an activity-dependent suppressive effect. *Journal of Neuroscience*, 32(36):12361-12365.
- Spering, M.^ & **Carrasco, M.** (2012). Similar effects of feature-based attention on motion perception and pursuit eye movements at different levels of awareness. *Journal of Neuroscience*. 32(22):7594-7601.
- Herrmann, K. #, Heeger, D. & **Carrasco, M.** (2012). Feature-based attention enhances performance by increasing response gain. *Vision Research* 74:10-20.
- Raio, C., Carmel, D.,^ **Carrasco, M.** & Phelps E.A. (2012). Nonconscious fear is quickly acquired but swiftly forgotten. *Current Biology*, 22(12): R477-R479.
- Barbot, A. #, Landy, M.S. & Carrasco, M. (2012). Differential effects of exogenous and endogenous attention on 2nd-order texture contrast sensitivity. *Journal of Vision*, 12(8):6, 1-15.
- Abrams, J.,# Nizam, A.* & **Carrasco, M.** (2012). Isoeccentric locations are not equivalent: The extent of the vertical meridian asymmetry. *Vision Research* 52(1), 70-78.
- Carrasco, M.** (2011). Visual Attention: The past 25 years. *Vision Research*, 51, 1484-1525.
- Pestilli, F., **Carrasco, M.**, Heeger, D.J., & Gardner, J.L. (2011). Attentional enhancement via selection and pooling of early sensory responses in visual cortex. *Neuron* 72, 832-846.
- Anton-Erxleben, K.,^ Abrams, J.,# & **Carrasco, M.** (2011). Equality judgments cannot distinguish between attention effects on appearance and criterion: A reply to Schneider (2011). *Journal of Vision*, 11(13):8, 1–8.
- White, A. # & **Carrasco, M.** (2011). Feature-based attention involuntarily and simultaneously improves visual performance across locations. *Journal of Vision*, 11(6):15, 1–10.
- Barbot, A. #, Landy, M. & **Carrasco, M.** (2011). Exogenous attention enhances 2nd-order contrast sensitivity" *Vision Research*, 51, 1086-1098.
- Corbett, J.E., ^ & **Carrasco, M.** (2011). Visual performance fields: Frames of reference. *PLoS ONE*, 6(9), 1-10.
- Spering, M., Pomplun, M. & **Carrasco, M.** (2011). Tracking without perceiving: a dissociation between motion perception and eye movements. *Psychological Science*. 22(2), 216-225.
- Anton-Erxleben, K.,^ Abrams, J.,# & **Carrasco, M.** (2010). Evaluating comparative and equality judgments in contrast perception: Attention alters appearance. *Journal of Vision*, 10(11):6, 1–22.
- Herrmann, K. #, Montaser-Kouhsari, L. #, **Carrasco, M.** & Heeger, D.J. (2010): When size matters: Attention affects performance by contrast or response gain. *Nature Neuroscience*, 13(12), 1554-1559.
- Abrams, J.,# Barbot, A.# & **Carrasco, M.** (2010) Voluntary attention increases perceived spatial frequency. *Attention, Perception & Psychophysics*, 17(4), 529-535.

- Ferneyhough, E.[#], Stanley, D.[^], Phelps, E.A. & **Carrasco, M.** (2010). Cueing effects of faces are dependent on handedness and visual field. *Psychonomic Bulletin Review*, 17(4), 529-535.
- Carrasco, M.** (2009). Cross-modal attention enhances perceived contrast. *Proceedings of the National Academy of Sciences*, 106(52), 22039-22040.
- Montaser-Kouhsari, L.[#] & **Carrasco, M.** (2009). Perceptual asymmetries are preserved in short-term memory tasks. *Attention, Perception, & Psychophysics*, 71(8), 1782-1792.
- Ling, S.[#], Liu, T.[^] & **Carrasco, M.** (2009). How spatial and feature based attention affect the gain and tuning of population responses. *Vision Research*, 49(10): 1194-1204.
- Pestilli, F.[#], Ling, S.[#] & **Carrasco, M.** (2009). A population-coding model of attention's influence on contrast response: estimating neural effects from psychophysical. *Vision Research*, 40(10), 1144-1153.
- Fuller, S.[#] & **Carrasco, M.** (2009). Perceptual consequences of visual performance fields: The case of the line motion illusion. *Journal of Vision*, 9(4): 13,1-17.
- Fuller, S.[#] Park, Y.* & **Carrasco, M.** (2009). Cue contrast modulates the effects of exogenous attention on appearance, *Vision Research*, 49: 1825-1837.
- Liu, T.[^], Abrams, J.[#] & **Carrasco, M.** (2009). Voluntary attention enhances contrast appearance. *Psychological Science*, 20(3): 354-362.
- Giordano, A.M.[#], McElree, B. & Carrasco, M. (2009). On the automaticity and flexibility of covert attention: A speed-accuracy trade-off analysis. *Journal of Vision*, 9 (3):30, 1–10.
- Montagna, B.[#], Pestilli, F.[#] & **Carrasco, M.** (2009). Attention trades off spatial acuity. *Vision Research*, 49, 735-745.
- Yeshurun, Y., **Carrasco, M.** & Maloney, L. (2008). Bias and sensitivity in two-interval forced choice procedures: Tests of the difference model. *Vision Research*, 48 (17): 1837-1851.
- Carrasco, M.**, Fuller, S.[#] & Ling, S.[#] (2008). Transient attention does increase perceived contrast of suprathreshold stimuli: A reply to Prinzmetal, Long and Leonhardt (2008). *Perception & Psychophysics* 70(7): 1151-1164.
- Yeshurun, Y., Montagna, B.[#] & **Carrasco, M.** (2008). On the flexibility of sustained attention and its effects on a texture segmentation task. *Vision Research*, 48 (1): 78-93.
- Fuller, S.[#], Rodriguez, R.* & **Carrasco, M.** (2008). Apparent contrast and the vertical meridian asymmetry: visual and attentional factors. *Journal of Vision*, 8 (1): 16, 1–16, <http://journalofvision.org/8/1/16/>, doi:10.1167/8.1.16.
- Yeshurun, Y. & **Carrasco, M.** (2008). The effects of transient attention on spatial resolution and the size of the attentional cue. *Perception & Psychophysics*, 70 (1): 104-113.
- Liu, T.[^], Larsson, J. & **Carrasco, M.** (2007). Feature-based attention modulates orientation-selective responses in human visual cortex. *Neuron*, 55, 313-323.

- Pestilli, F.[#] & Carrasco, M. (2007). How do attention and adaptation affect contrast sensitivity? *Journal of Vision*, 7 (7), 1-12.
- Ling, S.[#] & Carrasco, M. (2007). Transient covert attention does alter appearance: A reply to Schneider (2006) *Perception & Psychophysics*, 69, 1051-1058.
- Liu, T.,[^] Stevens, S.T.[#] & Carrasco, M. (2007). Comparing the time course and efficacy of spatial and feature-based attention. *Vision Research*, 47, 108-113.
- Ling, S.[#], & Carrasco, M. (2006). When sustained attention impairs perception. *Nature Neuroscience*, 9, 1243-1245.
- Liu, T.,[^] Heeger, D.J., & Carrasco, M. (2006). Neural correlates of the visual vertical meridian Asymmetry. *Journal of Vision*, 6(11), 1294-1306, <http://journalofvision.org/6/11/12/>.
- Carrasco, M.**, Loula, F.,[^] & Ho, Y.X.[#] (2006). How attention enhances spatial resolution: Evidence from selective adaptation to spatial frequency. *Perception & Psychophysics*, 68, 1004-1012.
- Liu, T.,[^] Fuller, S.[#], & Carrasco, M. (2006). Attention alters the appearance of motion coherence. *Psychonomic Bulletin & Review*, 13 (5).
- Fuller, S.[#] & Carrasco, M. (2006). Exogeneous attention and color perception: Performance and appearance of saturation and hue. *Vision Research*, 46, 4032-4047.
- Montagna, B.[#], & Carrasco, M. (2006). Transient covert attention and the perceived rate of flicker. *Journal of Vision*, 6, 955-965, <http://journalofvision.org/6/9/8/>, doi:10.1167/6.9.8.
- Phelps, E.A., Ling, S.[#], & Carrasco, M. (2006). Emotion facilitates perception and potentiates the perceptual benefit of attention. *Psychological Science*, 17, 292-299.
- Carrasco, M.**, Giordano, A.M.[#], & McElree, B. (2006). Attention speeds processing across eccentricity: feature and conjunction searches. *Vision Research*, 46, 2028-2040.
- Ballesteros, S., Reales, J.M., Garcia, E., & Carrasco, M. (2006). Selective attention affects implicit and explicit memory for familiar pictures at different delay conditions. *Psicothema*, 18, 88-99.
- Ling, S.[#] & Carrasco, M. (2006). Sustained and transient covert attention enhance the signal via different contrast response functions. *Vision Research*, 46, 1210-1220.
- Liu, T.[#], Pestilli, F.[#], & Carrasco, M. (2005). Transient attention enhances performance and fMRI response in human visual cortex. *Neuron*, 45, 469-477.
- Gobell, J.[#], & Carrasco, M. (2005). Attention alters the appearance of spatial frequency and gap size. *Psychological Science*, 16, 644-651.
- Pestilli, F.[#], & Carrasco, M. (2005) Contrast sensitivity is enhanced at cued locations and impaired at uncued locations. *Vision Research*, 45, 1867-1875.
- Carrasco, M.**, Ling, S.[#], & Read, S.* (2004). Attention alters appearance. *Nature Neuroscience*, 7, 308-313.

- Cameron, E.L., Tai, J.C.,[^] Eckstein, M.P., & **Carrasco, M.** (2004). Signal detection theory applied to three visual search tasks: Identification, Yes/No detection and localization. *Spatial Vision*, 17, 295-325.
- Talgar, C.P.[#], Pelli, D., & **Carrasco, M.** (2004). Covert attention enhances letter identification without affecting channel tuning. *Journal of Vision*, 4, 22-31.
- Carrasco, M.**, Giordano, A.M.[#], & McElree, B. (2004). Temporal performance fields: Visual and attentional factors. *Vision Research*, 44, 1351-1365.
- Carrasco, M.**, McElree, B., Denisova, K.^{*}, & Giordano, A.M.[#] (2003). Speed of visual processing increases with eccentricity. *Nature Neuroscience*, 6, 669-670.
- Carrasco, M.**, Williams, P.[#], & Yeshurun, Y. (2002). Covert attention increases spatial resolution with or without masking: Support for signal enhancement. *Journal of Vision*, 2, 467-479, <http://journalofvision.org/2/6/4/>, DOI 10.1167/2.6.4.
- Talgar, C.P.[#] & **Carrasco, M.** (2002). Vertical meridian asymmetry in spatial resolution: Visual and attentional factors. *Psychonomic Bulletin Review*, 9, 714-722.
- Cameron E.L.,[^] Tai, J., & **Carrasco, M.** (2002). Effects of covert attention on the psychometric function of contrast sensitivity. *Vision Research*, 42, 949-967.
- Carrasco, M.**, Penpeci-Talgar, C.[#], & Cameron, E.L.[^] (2001). Characterizing visual performance fields: Effects of transient covert attention, spatial frequency, eccentricity, task and set size. *Spatial Vision*, 15, 61-75.
- Carrasco, M.** & McElree, B. (2001). Covert attention speeds the accrual of visual information. *Proceedings of the National Academy of Science*, 98, 5363-5367.
- Yeshurun, Y.[#], & **Carrasco, M.** (2000). The locus of attentional effects in texture segmentation. *Nature Neuroscience*, 3, 622-627.
- Carrasco, M.**, Penpeci-Talgar, C.[#], & Eckstein, M. (2000). Spatial attention increases contrast sensitivity across the CSF: Support for signal enhancement. *Vision Research*, 40, 1203-1215.
- McElree, B. & **Carrasco, M.** (1999). Temporal dynamics of visual search: A speed-accuracy analysis of feature and conjunction searches. *Journal of Experimental Psychology: Human Perception and Performance*, 25, 1517-1539.
- Yeshurun, Y.[#] & **Carrasco, M.** (1999). Spatial attention improves performance in spatial resolution tasks. *Vision Research*, 39, 293-305.
- Seamon, J.G. & **Carrasco, M.** (1999). The effect of study time on priming possible and impossible figures in the object decision test. *Psicothema (Spain)*, 11, 801-813.
- Carrasco, M.**, & Yeshurun, Y.[#] (1998). The contribution of covert attention to the set-size and eccentricity effects in visual search. *Journal of Experimental Psychology: Human Perception and Performance*, 24, 673-692.

- Yeshurun, Y.[#], & **Carrasco, M.** (1998). Attention improves or impairs visual performance by enhancing spatial resolution. *Nature*, *396*, 72-75.
- Carrasco, M.**, McLean, T.L.[#], Katz, S.M.^{*}, & Frieder K.S.[#] (1998). Feature asymmetries in visual search: Effects of display duration, target eccentricity, orientation & spatial frequency. *Vision Research*, *38*, 347-374.
- Carrasco, M.**, Ponte, D., Rechea, C., & Sampedro, M.J.[#] (1998). The effects of practice and distractor grouping on a within-dimension conjunction search. *Perception & Psychophysics*, *60*, 1243-1258.
- Ganor-Stern, D.[#], Seamon, J.G., & **Carrasco, M.** (1998). The role of attention and study time in explicit and implicit memory for unfamiliar visual stimuli. *Memory & Cognition*, *26*, 1187-1195.
- Carrasco, M.**, & Frieder, K.S.[#] (1997). Cortical magnification neutralizes the eccentricity effect in visual search. *Vision Research*, *37*, 63-82.
- Carrasco, M.**, & Seamon, J.G. (1996). Priming impossible figures in the object decision task: The critical role of perceived stimulus complexity. *Psychological Bulletin & Review*, *3*, 344-351.
- Carrasco, M.**, Evert, D.L.[#], Chang, I.^{*}, & Katz, S.M.^{*} (1995). The eccentricity effect: Target eccentricity affects performance on conjunction searches. *Perception & Psychophysics*, *57*, 1241-1261.
- Carrasco, M.**, & Chang, I.^{*} (1995). The interaction of objective and subjective organizations in a localization search task. *Perception & Psychophysics*, *57*, 1134-1150.
- Carrasco, M.**, & Ridout J.B.^{*} (1993). Olfactory perception and olfactory imagery: A Multi-dimensional analysis. *Journal of Experimental Psychology: Human Perception and Performance*, *19*, 287-301.
- Carrasco, M.**, & Sekuler, E.B.^{*} (1993). An unreported size illusion. *Perception*, *22*, 383-405.
- Stuart, D.M., & **Carrasco, M.** (1993). On the semantic component of a cross-modal Stroop-like task. *American Journal of Psychology*, *106*, 383-405.
- Carrasco, M.**, Katz, S.M.^{*}, & Winter, J.^{*} (1993). Multidimensional scaling and experimental aesthetics: Escher's prints as a case study. *Empirical Studies of the Arts*, *11*, 1-23.
- Carrasco, M.** (1990). Visual space-time interactions: Effects of adapting to spatial frequencies on temporal sensitivity. *Perception & Psychophysics*, *48*, 488-496.
- Carrasco, M.**, Kinchla, R.A., & Figueroa, J.G. (1988). Visual letter-matching and the time course of visual and acoustic codes. *Acta Psychologica*, *69*, 1-17.
- Carrasco, M.**, Figueroa, J.G., & Willen, J.D.^{*} (1986). A test of the spatial frequency explanation of the Muller-Lyer illusion. *Perception*, *15*, 553-562.

BOOK CHAPTERS, EDITORIALS, ENCYCLOPEDIA ENTRIES & COMMENTS

- Carrasco, M.** (in press). Spatial Attention: Perceptual modulation. *The Oxford Handbook of Attention*. Kastner, S. & Nobre, A.C. (Eds.), Oxford University Press.
- Carrasco, M.,** Eckstein, M., Krauzlis, V. Verghese, P. (2013). Attentional modulation: Target selection, active search and cognitive processing. (Editorial for Special Issue on Visual Attention II). *Vision Research*, 85: 1-4.
- Carrasco, M.,** Eckstein, M., Krauzlis, V. Verghese, P. (2012). *Vision Research* special issue on "Visual attention" (Editorial for Special Issue on Visual Attention I). *Vision Research*, 74: 1.
- Carrasco, M.** (2010). Attention: Covert. *Encyclopedia of Perception*. In E.B. Goldstein (Ed.) SAGE Publications.
- Carrasco, M.** (2010). Attention: Effects on perception. *Encyclopedia of Perception*. In E.B. Goldstein (Ed.) SAGE Publications.
- Carrasco, M. &** Yeshurun, Y. (2009). Covert Attention Effects on Spatial Resolution. In N. Srinivasan (Ed.) *Progress in Brain Research*. Vol 176, ATTENTION, The Netherlands: Elsevier, pp. 65-86.
- Carrasco, M.** (2009). Cross-modal attention enhances perceived contrast. *Proceedings of the National Academy of Sciences*, 106(52), 22039-22040.
- Carrasco, M.,** Eckstein, M., Verghese, P., Boynton, G. & True, S. (2009). Visual attention: Neurophysiology, Psychophysics and Cognitive Neuroscience. (Editorial for Special Issue on Visual Attention, Special Issue Editor). *Vision Research*, 49(10): 1033-1036.
- Carrasco, M.** (2009). Attention, Psychophysical approaches. In *The Oxford Companion to Consciousness*. Bayne, A., Cleeremans & P. Wilken (Eds.), Oxford University Press.
- Carrasco, M.** (2009). Attention, cognitive models of. In *The Oxford Companion to Consciousness*. Bayne, A. Cleeremans & P. Wilken (Eds.), Oxford University Press.
- Carmel, D. & **Carrasco, M.** (2008). Preview: Perceptual learning and dynamic changes in primary visual cortex. *Neuron*, 57, 1-3.
- Carrasco, M.** (2007). Visual attention alters appearance: Psychophysical studies of subjective experience. In *The Oxford Companion to Consciousness*. Bayne, A. Cleeremans & P. Wilken (Eds.), Oxford University Press.
- Carrasco, M.** (2006). Covert attention increases contrast sensitivity: Psychophysical, neurophysiological, and neuroimaging studies. In S. Martinez-Conde, S.L. Macknik, L.M. Martinez, J.M. Alonso, & P.U. Tse (Eds.), *Progress in Brain Research*. Boston: Elsevier, pp. 33-70.
- Carrasco, M.** (2005). Transient covert attention increases contrast sensitivity and spatial resolution: support for signal enhancement. In L. Itti, G. Rees, & J.K. Tsotsos (Eds.), *Neurobiology of attention* (pp. 442-447). Boston: Academic Press.

Baldassi, S., Burr, D., **Carrasco, M.**, Eckstein, M., & Verghese, P. (2004). Visual attention (Editorial for Special Issue on Visual Attention). *Vision Research*, 44, 1189-1191.

Pelli, D. & **Carrasco, M.** (2000). Visual search and low vision. Report for the National Academy of Sciences' National Research Council: Committee on disability determination for individuals with visual impairments.

Carrasco, M. (2001). Atención y rendimiento visual. *Investigación y Ciencia* (Attention and visual performance. Spanish edition of *Scientific American*), 298, 31-33.

PAPERS DELIVERED AT MEETINGS OF LEARNED SOCIETIES

[* undergraduate or high-school; # graduate students]

Published Abstracts (since 2000)

Barbot, A.#, Bustamante, L.*, & Carrasco, M. (2013). Diverting attention impairs or improves performance by decreasing spatial resolution. European Conference on Visual Perception. Bremen, Germany.

Rolfs, M., Murray-Smith, N., & Carrasco, M. (2013). Perceptual learning through remapping: How presaccadic updating affects visual processing. European Conference on Visual Perception, Bremen, Germany.

Barbot, A.#, Bustamante, L.*, & Carrasco, M. (2013). When diverting attention improves performance: Attention trades off spatial resolution. *Journal of Vision*, 13(9), 639-639.

Cutrone, E.#, Heeger, D.J., & Carrasco, M. (2013). A normalization model of attention predicts enhanced contrast appearance. *Journal of Vision*, 13(9), 241-241.

Grubb, M.#, White, A.#, Heeger, D.J., & Carrasco, M. (2013). Does exogenous attention modulate endogenous attention. *Journal of Vision*, 13(9), 473-473.

Kiorpes, L., Pham, A.*, & Carrasco, M. (2013). Attention improves visual performances in amblyopic macaque monkeys. *Journal of Vision*, 13(9), 469-469.

Szinte, M., Rolfs, M., Carrasco, M., & Cavanagh, P. (2013). Remapping of attentionally tracked locations. *Journal of Vision*, 13(9), 109-109.

White, A.#, Lunau, R., & Carrasco, M. (2013). The attentional effects of single cues and singletons on visual sensitivity. *Journal of Vision*, 13(9), 88-88.

Barbot, A.#, & Carrasco, M. (2012). Emotion potentiates the effect of attention on appearance. *Perception*, 41, S28.

Rolfs, M., Murray-Smith, N.#, & Carrasco, M. (2012). Perceptual learning at the location of predictive remapping. *Perception*, 41, S55.

White, A.#, Rolfs, M., & Carrasco, M. (2012). The dynamics of spatial and feature-based attention during saccade preparation. Society for Neuroscience Meeting, New Orleans, LA

- Szpiro, S. #, Spering, M., & Carrasco, M. (2012) Perceptual training alters perceptual estimation and smooth pursuit eye movements but pursuit training does not. Society for Neuroscience Meeting, New Orleans, LA.
- Kiorpes, L., Pham, A. #, & Carrasco, M. (2012) Effects of attention on visual performance in amblyopic macaque monkeys (*Macaca nemestrina*). Society for Neuroscience Meeting, New Orleans, LA.
- Abrams, J. #, & Carrasco, M. (2012). Pre-cortical noise shapes visual performance fields. *Journal of Vision*, 12(9), 93-93.
- Barbot, A. #, Montagna, B. #, & Carrasco, M. (2012). Endogenous attention optimizes performance by adjusting spatial resolution: evidence from selective adaptation. *Journal of Vision*, 12(9), 387-387.
- Carmel, D., & Carrasco, M. (2012). Attention enhances perceptual learning and transfers it to untrained locations. *Journal of Vision*, 12(9), 1136-1136.
- Rolfs, M., Lawrence, B., & Carrasco, M. (2012). Changes in visual performance and appearance before manual reach movements. *Journal of Vision*, 12(9), 829-829.
- Szpiro, S. #, Spering, M., & Carrasco, M. (2012). Perceptual learning of motion directions transfers to smooth pursuit eye movements. *Journal of Vision*, 12(9), 1139-1139.
- White, A. #, Lunau, R., & Carrasco, M. (2012). Single cues enhance contrast sensitivity, but feature singletons do not. *Journal of Vision*, 12(9), 1344-1344.
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COURSES

NYU (1995-2013)

Collegiate Seminar: How We See
 Honors Seminar
 Perception
 Laboratory in Perception
 M.A. Perception
 Area Seminar in Perception

Graduate Seminar on Perception and Attention
Graduate core course on Attention
Directed 15 Undergraduate Honors Theses
Directed 6 MA Theses

Wesleyan University (1989-1995)

Honors Integrated Seminar
Mechanisms of the Mind: Cognitive Neuroscience
Perception
Practicum in Perception and Attention
Research Methods in Perception
Seminar on Perception
Seminar on Perception and Attention
Statistics and Statistics Lab
Individual Research Tutorials (20)
Directed 7 M.A. & 6 Undergraduate Honors Theses

PROFESSIONAL & ACADEMIC SERVICE

Service at NYU (1995–)

Member, Provostial Committee on Academic Priorities (2012–)
Member, Search Committee for Dean of College of Arts and Sciences (2012-13)
Member, Search Committee for Graduate School Dean of Arts and Sciences (2011-12)
Director of Undergraduate Research, College of Arts and Science (2010–)
Co-Chair, Committee of Policy and Planning (2008–09, 2009-10, 2010-11)
Member of Search Committee for Dean for Faculty of Arts and Sciences (2009–11)
Member, NYU Abu Dhabi Undergraduate Curriculum Advisory Committee (2009–2010)
Member, EQUAL Commission (2008–10)
Coordinator, Cognition & Perception Program, Department of Psychology (2008–09)
Member, Steering Committee, Women in Science Program, College of Arts and Science (2007–)
Member, Committee on Committees, Rules and Regulations (2007–2008)
Chair, Department of Psychology (2001–2007)
Coordinator, College of Arts and Sciences Heads (CASH, 2002–2007)
Member, University Honors Committee (2005–2007)
Member, University Committee for Undergraduate Studies (2002–2007)
Member, Science Planning Committee (2002–2003)
Member, Middle States Association Self-Study and Accreditation (2002–2003)
Associate Chair, Department of Psychology (2000–2001)
Member, Committee, Brain Imaging Center (2000–2007; 2008–09)
Member, University Committee on Student Discipline (1997–2000)
Member, Educational Policy Committee, Psychology Department (1996-1998)
Freshman Adviser for the Class 2000

Service at Wesleyan University (1989-1995)

Advisory Committee (Promotion & Tenure) to the President (1993-1994)
Committee on Faculty Development, Natural Sciences (1991-1993)
Freshman adviser for the Classes (1994, 1997)
Committee on Departmental Computers (1990-1995)
Committee on the Psychology M.A. Program (1989-1994)

Alumni Day Panel on Multiculturalism (Spring 1991)
Hispanic Alumni Day Panel (Spring 1991)
Student Admissions Panel (Fall 1990, Fall 1993)
Organizer of the Psychology Colloquium Series (1989-1991)

EDITORIAL COMMITTEES

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Journal of Vision (2006–); Associate Editor (2013–)
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Journal Reviewer

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President Elect (2010–2011)
Vision Sciences Society (elected 2008–2013)

Program Reviewer

ECVP
Vision Sciences Society

Conference Committee

Association for the Scientific Study of Consciousness
Vision Sciences

Workshop Co-organizer

Fifth Rovereto Attention Workshop, Rovereto, Italy (October 2013)
Fourth Rovereto Attention Workshop, Rovereto, Italy (October 2011)
Third International Workshop on Visual Attention, Alahabad, India (October 2011)
Third Rovereto Attention Workshop, Rovereto, Italy (October 2009)
Second Rovereto Attention Workshop, Rovereto, Italy (October 2008)
First Rovereto Attention Workshop, Rovereto, Italy (October 2007)
Second International Workshop on Visual Attention, Buenos Aires, Argentina (March 07)
First International Workshop on Visual Attention, San Miniato, Italy (March 2003)

Book Reviewer

CONACYT (Mexican National Council of Science & Technology)
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