



## CURRICULUM VITAE

# LAURENCE T MALONEY

## PROFESSOR, PSYCHOLOGY & NEURAL SCIENCE

### EDUCATION

Yale University	Mathematics	BA	1970-73
Stanford University	Mathematical Statistics	MS	1979-82
Stanford University	Psychology	PhD	1979-85

### APPOINTMENTS

2004 – <i>present</i>	Professor, Psychology and Neural Science, New York University
1990 – 2004	Associate Professor, Psychology and Neural Science, New York University
1988 – 1990	Assistant Professor, Psychology and Neural Science, New York University
1985 – 1990	Assistant Professor, Psychology and EECS, University of Michigan, Ann Arbor
1984 – 1985	Research Scientist, NASA-Ames Research Center, Mountain View, California
1973 – 1979	Computer Scientist. Most recently employed at Bolt Beranek and Newman Inc., Cambridge, Massachusetts.

### AWARDS, HONORS & FELLOWSHIPS

Humboldt Research Award of the Alexander von Humboldt Foundation, Germany, 2008.  
 Troland Research Award of the National Academy of Sciences, USA, 1987.  
 Fellow, Society for Experimental Psychology, elected 2009.  
 Fellow, Zentrum für interdisziplinäre Forschung, Bielefeld, Germany, 1995 - 1996.  
 Erasmus Mundus CIMET Scholar, University of Granada, Spain, 2009-2010.  
 WICN Visiting Scholar, Wales Institute of Cognitive Neuroscience, Bangor University, Bangor, Wales, 2009.  
 Associate, National Research Council, National Academy of Sciences, USA, 1984 – 1985.  
 Forchheimer Visiting Professor, Computer Science, Hebrew University, Jerusalem, 1999.  
 Professore d'Eccellenza, Università di Padova, Padova, Italy, 2010.  
 Professeur invité, Institut de Psychologie, Université de Paris V, 2006.  
 Gastdozent, University of Freiburg, Freiburg, Germany, 1998-1999.  
 Fellow, Deutscher Akademischer Austausch Dienst, 1997.  
 Whitehead Presidential Fellow, New York University, 1990 - 1991.  
 Golden Dozen Teaching Award, New York University, 1994.

## GRANTS

- Consequences of visual uncertainty in visual perception and action, \$903,595 direct + indirect costs, PI, National Institutes of Health/National Eye Institute, EY019889, 2011-2014.
- Surface color and material perception in dynamic 3D scenes, \$324,060 direct + indirect costs, PI, National Science Foundation, NSF1059166, 2011-2013.
- Perception and action: Ideal observers and actors. \$1,200,000 direct + indirect costs, co-PI (Michael Landy, PI), National Institutes of Health/National Eye Institute, EY08266, 2004-2008.
- Depth and surface properties: Perception and action, \$722,000 direct + indirect costs, co-PI (Michael Landy, PI), National Institutes of Health/National Eye Institute, EY08266, 2001-2004.
- OPTOTRAK motion measurement system. \$107,782, direct costs (no indirect), co-PI (Karen Adolph, PI), National Institutes of Health/NCRR.
- The representations underlying perceptual judgment and action, \$600,000 direct + indirect costs, co-PI (Pascal Mamassian, University of Glasgow, PI), Human Frontiers Science Program, RG0109/1999-B, 1999-2003.
- Perception of Depth and Surface Properties, \$699,387 direct, \$1,058,221 direct + indirect costs, co-PI (M. S. Landy, PI), National Institutes of Health, 1995-2000.
- Neural development and chromatic aberration, \$113,417 direct and indirect costs, Principal Investigator, 25% effort Academic, 67% Summer, Air Force Office of Scientific Research F49620-92-J-0187, 1992-1994.
- Shape representation and multiple depth cues, \$279,301 direct costs, co-PI (M. S. Landy, PI), National Institutes of Health, 1992-1995.
- Fusion and calibration of multiple depth cues, \$208,940 direct costs, co-PI (M. S. Landy, PI), National Institutes of Health EY08266, 1989-1992.

## TEACHING EXPERIENCE [ REPRESENTATIVE COURSES ]

### *Graduate*

Math Tools for Cognitive Science and Neuroscience  
Simulation and Data Analysis  
Mathematical Statistics  
Multivariate Statistics  
Linear Systems  
Decision Making  
Mathematical Psychology

### *Undergraduate*

Introductory Statistics  
Cognitive Science  
Cognition  
Perception

## PROFESSIONAL SERVICE

Associate Editor, *PLoS Computational Biology*, 2010-

Associate Editor, *Frontiers in Perception Science*, 2009 -

Editorial Board, *Journal of Vision*, January, 2005 -

Editorial Board, *Psychological Science*, Jan 2007 – Dec 2008, Jan 2011 -

Feature Editor (with David Brainard), Special issue: "Color and material properties in complex 3D scenes" *Journal of Vision*, 2009-2010.

Feature Editor (with James Elder, Sergei Gepshtein), Special issue: "Perceptual organization and neural computation", *Journal of Vision*, 2007-2008.

Feature Editor (with David C. Knill, Julia Trommershäuser), Special issue: "Sensori-motor processing and goal-directed movement", *Journal of Vision*, 2006-2007.

Feature Editor (with David Brainard), Special issue: "Color and material perception in complex scenes" *Journal of Vision*, 2003-2004.

Feature Editor (with James Schirillo), Special issue: "Articulation" *Perception*, 2002.

Feature Editor (with Rainer Mausfeld & Dieter Heyer), Special issue: "The case for cognitive universals" *Behavioral & Brain Sciences*, 2002.

Organizer (with David Brainard, Anya Hurlbert), Workshop on "Surface color and material perception," University of Pennsylvania, October, 2008.

Organizer (with Sergei Gepshtein), Satellite symposium on "Visual organization and computation", VSS Meeting, Sarasota, FL, May, 2007.

Organizer (with David Brainard), Workshop on "Color and lightness in complex scenes", New York University, New York, New York, October 2003.

Organizer (with Michael Landy), Workshop on "Perception, action, and statistical decision theory", New York, New York, June 2003.

Supervisor, Conference on *Visual Information Assimilation in Man and Machine*, Ann Arbor, Michigan, June 1990.

Program Chair, *Neural Networks Symposium*, at the Annual Meeting of the Optical Society of America, Santa Clara, California, October 1988.

Organizer, Workshop on "Exploratory vision: The active eye" Ann Arbor, Michigan, June 1988.

Member, College of Reviewers, Canada Research Chair, 2006-present.

Advisory Board, DIRAC Project, IST-FP6 (Information Society Technologies, Framework Project 6, European Union), Martigny, CH, 2006-2010

Scientific Committee, International Color Association, AIC2005 Quadrennial Meeting, Granada, Spain, May, 2005.

Member, NSF Review Panel "Collaborative research in computational neuroscience" (Panel D: P081120), March 31-April 1, 2008, February 22-23, 2010.

Member, Study Panel on Augmented Cognition, DARPA/ISAT, August, 2001.

Member, Study Panel on Expert Systems, National Research Council of the National Academy of Sciences, November, 1986.

Program Committee, ISMB/ECCB, 2011.

Program Committee, Cognitive Science 2010, 2011.

Program Committee, CoSyNe, 2011.

Program Committee, Vision Sciences Society, 2010, 2011.

Site Reviewer, Science Foundation of Ireland, Trinity College, Dublin, April, 2009.

## BOOKS

3. Gepshtein, S. & **Maloney, L. T.** (2012), *Oxford Handbook of Computational Perceptual Organization: Vision*. New York: Oxford University Press, in preparation.
2. Knoblauch, K. & **Maloney, L. T.** (2011), *Modeling Psychophysical Data in R*. New York: Springer-Verlag, expected Fall, 2011.
1. Landy, M. S., **Maloney, L. T.**, and Pavel, M. [Eds] (1996), *Exploratory Vision: The Active Eye*. New York: Springer-Verlag.

## ARTICLES, CHAPTERS & PROCEEDINGS

*Authors in italics* were pre- or post-doctoral students working with me.

### Under review

- Warren, P. A., Graf, E. W., Champion, R. & **Maloney, L. T.** (2011), Extrapolation under risk: estimating and compensating for exogeneous uncertainty. *Proceedings of the Royal Society, Series B*, under review, 4/28/2011.
- Hudson, T. E., Wolfe, U., **Maloney, L. T.** (2011), Speeded reaching movements around invisible obstacles. *Journal of Neuroscience*, under review, 4/30/2011.
- Morvan, C. & **Maloney, L. T.** (2011), Human visual search does not maximize the post-saccadic probability of identifying targets. *PLoS Computational Biology*, under review, 4/30/2011.
- Charrier, C., Knoblauch, K., **Maloney, L. T.**, Bovik, A. C. & Morthy, A. (2011), Optimizing multi-scale SSIM via MLDS. *IEEE: Transactions on image processing*. under review, 12/2010.
- Glaser, C. Trommershäuser, J., Mamassian, P. & **Maloney, L. T.** (2011), Comparison of distortion of probability information in decision under risk and in an equivalent visual task. *Psychological Science*, under revision following review.
- Zhang, H. & **Maloney, L.T.** (2011), Distortions of perceived relative frequency. *Proceedings of the National Academy of Sciences, USA*, under revision following review.
- Fulvio, J. M., Schrater, P. & **Maloney, L. T.** (2011), Model-based extrapolation of circular motion: Observers select extrapolation models matched to their visual capabilities. under revision following review.

### 2011 and in press

131. Wu, S.-W., Delgado, M. R. & **Maloney, L. T.** (2011), The neural correlates of subjective utility of monetary outcome and probability weight in economic and in motor decision under risk. *Journal of Neuroscience*, in press,, 4/27/2011.
130. Charrier, C., Knoblauch, K., **Maloney, L. T.**, & Bovik, A. C. (2011), Calibrating MS-SSIM for compression distortions using MLDS. *18<sup>th</sup> IEEE International Conference on Image Processing (ICIP 2011)*, accepted 4/17/2011.
129. Brainard, D. H. & **Maloney, L. T.** (2011), Surface color perception and equivalent illumination models. *Journal of Vision*, in press, 2/23/2011.

128. Fujikake, H., Higuchi, T., Imanaka, K., & **Maloney, L. T.** (2011), Directional bias in the body while walking through a doorway: Its association with motor and cognitive factors. *Experimental Brain Research, under review following revision*, 1/28/2011.
127. Fleming, R. W., Jäkel, F., **Maloney, L. T.** (2011) Visual perception of transparent materials. *Psychological Science, in press*, 1/24/2011.
126. Juni, M. Z., Gureckis, T. M. & **Maloney, L. T.** (2011), Don't stop 'til you get enough: adaptive information sampling in a visuomotor estimation task. *Proceedings of the Cognitive Science Society, CogSci 2011, in press*.
125. **Maloney, L. T.**, Gerhard, H. E., Boyaci, H. & Doerschner, K. (2011), Surface color perception and light field estimation in 3D scenes. In Harris, L. R. & Jenkin, M. R. M. [Eds], *Vision in 3D environments*. Cambridge, UK: Cambridge University Press, pp. 280-307.

### 2009-2010

124. Zhang, H., Maddula, S. & **Maloney, L.T.** (2010), Planning routes across economic terrains: maximizing utility, following heuristics. *Frontiers in Cognitive Science, 1*, 1-10.
123. Juni, M. Z., Singh, M. & **Maloney, L. T.** (2010), Robust visual estimation as source separation. *Journal of Vision, 10(14):2*, 1-20.
122. Zhang, H., Morvan, C. & **Maloney, L. T.** (2010), Gambling in the visual periphery: a conjoint-measurement analysis of human ability to judge visual uncertainty. *PLoS Computational Biology, 6(12): e1001023*, 1-10.
121. **Maloney, L. T.** & Zhang, H. (2010), Decision-theoretic models of visual perception and action. *Vision Research, 50*, 2362-2374.
120. Doerschner, K., **Maloney, L. T.** & Boyaci, H. (2010), Perceived glossiness in high dynamic range scenes. *Journal of Vision, 10(9):11*, 1-11.
119. Gerhard, H. E. & **Maloney, L. T.** (2010) Estimating changes in lighting direction in binocularly-viewed three-dimensional scenes. *Journal of Vision, 10(9):14*, 1-22.
118. Dal Martello, M. F. & **Maloney, L. T.** (2010), Lateralization of kin recognition signals in the human face. *Journal of Vision, 10(8):9*, 1-10.
117. Gerhard, H. E. & **Maloney, L. T.** (2010) Detection of light transformations and concomitant changes in surface albedo. *Journal of Vision, 10(9):1*, 1-14.
116. Zhang, H., Wu, S.-W. & **Maloney, L. T.** (2010), Planning multiple movements within a fixed time limit: The cost of active time allocation in a visuo-motor task. *Journal of Vision, 10(6):1*, 1-17.
115. Emrith, K., Chantler, M. J., Green, P. R., **Maloney, L. T.** & Clarke, A. D. F. (2010), Measuring perceived differences in surface texture due to changes in higher order statistics, *Journal of the Optical Society of America A, 27(5)*, 1232-1244. [Included in Virtual Journal for Biomedical Optics, 5\(9\)](#), July 6, 2010.
114. Doerschner, K., Boyaci, H. & **Maloney, L. T.** (2010), Estimating the glossiness transfer function induced by illumination change and testing its transitivity. *Journal of Vision, 10(4):8*, 1-9.
113. **Maloney, L. T.** & Brainard, D. H. (2010), Perception of color and material in complex scenes: achievements and challenges. *Journal of Vision, 9(19)*, 1-6.

112. Kwon, O. S., Gerhard, H. E. & Maloney, L. T. (2010), Surface reflectance models based on characteristic functions. *CGIV'2010, in press, 2/2010*.
111. Maloney, L. T. & Hempel de Ibarra, N. (2010), Commentary on Blacklawton, P. S. et al. *Biology Letters, in press, 11/22/2010*.
110. Maloney, L. T. & Brainard, D. H. (2010), Perception of color and material properties in complex scenes [special issue introduction], *Journal of Vision*, 10(9):i.
109. Landy, M. S., Ho, Y.-X., Serwe, S., Trommershäuser, J., & Maloney, L. T. (2010), Cues and pseudo-cues in shape and texture perception. In Trommershäuser, J., Körding, K. P. & Landy, M. S. [Eds] (2010), *Sensory Cue Integration*, New York: Oxford University Press, in press.
108. Charrier, C., Knoblauch, K., Morthy, A. Bovik, A. C. & Maloney, L. T. (2010), On the comparison of image quality assessment algorithms, Electronic Imaging '10: Image quality and system performance. San Jose, CA, January, 2010, IS&T/SPIE Paper Number 7529-10.
107. Wu, S.-W., Dal Martello, M. F. & Maloney, L. T. (2009), Sub-optimal tradeoff of time in sequential movements. *PLoS ONE*, 4(12): e8228, 1-13.
106. Ho, Y.-X., Serwe, S., Trommershäuser, J., Maloney, L. T. & Landy, M. S. (2009), The role of visuo-haptic experience in visually perceived depth. *Journal of Neurophysiology*, 101(6), 2789-2801.
105. Wu, S.-W., Delgado, M. & Maloney, L. T. (2009), Economic decision-making compared to an equivalent motor task, *Proceedings of the National Academy of Sciences, USA*, 106(15), 6088-6093.
104. Glanzer, M., Hilford, A. & Maloney, L. T. (2009), Likelihood ratio decisions in memory: Three implications. *Psychonomic Bulletin & Review*, 16(3), 431-455.
103. Fulvio, J. M., Singh, M. & Maloney, L. T. (2009), An experimental criterion for consistency in the interpolation of partially-occluded contours. *Journal of Vision*, 9(4):5, 1-19.
102. Maloney, L. T. & Mamassian, P. (2009), Bayesian decision theory as a model of visual perception: Testing Bayesian transfer. *Visual Neuroscience*, 26, 147-155.
101. Maloney, L. T. (2009), Perceptual-motor integration. In Goldstein, E. B. [Ed], *Encyclopedia of Perception*, Sage Publications, in press, 2/2009.
100. Maloney, L. T. (2009), Surface material properties perception. In Goldstein, E. B. [Ed], *Encyclopedia of Perception*, Sage Publications, in press, 1/2009.
99. Maloney, L. T. (2009), Book review: Introduction to probability with R by Kenneth Baclawski, *Journal of Statistical Software*, 30:BR1, 1-3.

### 2007-2008

98. Knoblauch, K. & Maloney, L. T. (2008), Estimating classification images with generalized additive models. *Journal of Vision*, 8(16):10, 1-19, <http://journalofvision.org/8/16/10/>, doi:10.1167/8.16.10.
97. Hudson, T. E., Maloney, L. T. & Landy, M. S. (2008), Optimal compensation for temporal uncertainty in movement planning. *PLoS Computational Biology*, 4(7):e100130, 1-9.
96. Trommershäuser, J., Maloney, L. T. & Landy, M. S. (2008), Decision making, movement planning and statistical decision theory. *Trends in Cognitive Science*, 12(8), 291-297.
95. Ho, Y.-H., Landy, M. S. & Maloney, L. T. (2008), Conjoint measurement of gloss and surface texture. *Psychological Science*, 19(2), 196-204.

94. Kitazaki, M., Kobiki, H. & **Maloney, L. T.** (2008), The effect of pictorial depth cues, binocular disparity and motion parallax depth cues on lightness perception in three-dimensional virtual scenes, *PLoS ONE*, **3(9)**: e3177, 1-9.
93. Yeshurun, Y., Carrasco, M. & **Maloney, L. T.** (2008), Bias and sensitivity in two-interval forced-choice procedures, *Vision Research*, **48**, 1837-1851.
92. Cohen, E. H., Singh, M. & **Maloney, L. T.** (2008), Perceptual segmentation and the perceived orientation of dot clusters: The role of robust statistics. *Journal of Vision*, **8(7)**, 1-13.
91. Tokunaga, R., Logvinenko, A. D. & **Maloney, L. T.** (2008), Multidimensional scaling of dissimilarities between yellow-blue surfaces rated under neutral light sources. *Visual Neuroscience*, **25**, 395-398.
90. Fulvio, J. M., Singh, M. & **Maloney, L. T.** (2008), Precision and consistency of location and gradient judgments of visually-interpolated contours, *Vision Research*, **48(6)**, 831-849.
89. Knoblauch, K. & **Maloney, L. T.** (2008), MLDS: Maximum likelihood difference scaling in R. *Journal of Statistical Software*, **25(2)**, 1-26.
88. Logvinenko, A., Petrini, K. & **Maloney, L. T.** (2008), A scaling analysis of the snake lightness illusion. *Perception & Psychophysics*, **70(5)**, 828-840.
87. Gepshtein, S., Elder, J. & **Maloney, L. T.** (2008), Perceptual organization and neural computation [special issue introduction], *Journal of Vision*, **8(7):i**, 1-4.
86. Trommershäuser, J., **Maloney, L. T.** & Landy M. S. (2008), The expected utility of movement. In Glimcher, P. W., Camerer, C., Fehr, E. & Poldrack, R. A. (Eds), *Neuroeconomics*. New York: Academic Press, pp. 95-111.
85. Hudson, T. E., **Maloney, L. T.** & Landy, M. S. (2007), Movement planning with probabilistic target information. *Journal of Neurophysiology*, **98**, 3034-3046.
84. Doerschner, K., Boyaci, H. & **Maloney, L. T.** (2007), Testing limits on matte surface color perception in three-dimensional scenes with complex light fields, *Vision Research*, **47**, 3409-3423.
83. Charrier, C., **Maloney, L. T.**, Cherifi, H. & Knoblauch, K., (2007), Maximum likelihood difference scaling of image quality in compression-degraded images. *Journal of the Optical Society of America A*, **24**, 3814-3826.
82. Dean, M., Wu, S.-W. & **Maloney, L. T.** (2007), Trading off speed and accuracy in rapid, goal directed movements, *Journal of Vision*, **7(5):10**, 1-12.
81. Rhodes, G., **Maloney, L. T.**, Turner, J. & Ewing, L. (2007), Adaptive face coding and discrimination around the average face, *Vision Research*, **47**, 974-989.
80. Ho, Y.-X., **Maloney, L. T.** & Landy, M. S. (2007), The effect of viewpoint on perceived visual roughness, *Journal of Vision*, **7**, 1-16.
79. Knill, D. C., **Maloney, L. T.** & Trommershäuser, J. (2007), Sensorimotor processing and goal-directed movement [special issue introduction], *Journal of Vision*, **7(5):i**, 1-2.
78. **Maloney, L. T.**, Trommershäuser, J. & Landy, M. S. (2007), Questions without words: A comparison between decision making under risk and movement planning under risk. In Gray, W. (Ed), *Integrated Models of Cognitive Systems*. New York, NY: Oxford University Press, pp. 297-315.

[2005-2006](#)

77. *Trommershäuser, J., Landy, M. S. & Maloney, L. T.* (2006), Humans rapidly estimate expected gain in movement planning. *Psychological Science*, **17**, 981-988.
76. Dal Martello, M. F. & **Maloney, L. T.** (2006), Where are kin recognition signals in the human face? *Journal of Vision*, **6**, 1356-1366.
75. *Trommershäuser, J., Mattis, J., Landy, M. S. & Maloney, L. T.* (2006), Limits to human movement planning with delayed and unpredictable onset of needed information. *Experimental Brain Research*, **175**, 276-284.
74. *Schultz, S., Doerschner, K., & Maloney, L. T.* (2006), Color constancy and hue scaling. *Journal of Vision*, **6**, 1102-1116.
73. *Boyaci, H., Doerschner, K., Snyder, J. L. & Maloney, L. T.* (2006), Surface color perception in three-dimensional scenes. *Visual Neuroscience*, **23**, 311-321.
72. **Maloney, L. T.** & Dal Martello, M. F. (2006), Kin recognition and the perceived facial similarity of children, *Journal of Vision*, **6**, 1047-1056.
71. *Fulvio, J. M., Singh, M. & Maloney, L. T.* (2006), Combining achromatic and chromatic cues to transparency, *Journal of Vision*, **6**, 760-776.
70. Logvinenko, A. D. & **Maloney, L. T.** (2006), The proximity structure of achromatic surface colors and the impossibility of asymmetric lightness matching. *Perception & Psychophysics*, **68**, 76-83.
69. *Ho, Y.-X., Landy, M. S. & Maloney, L. T.* (2006), How direction of illumination affects perceived visual roughness, *Journal of Vision*, **6**, 634-648.
68. *Wu, S.-W., Trommershäuser, J., Maloney, L. T. & Landy, M. S.* (2006), Limits to human movement planning in tasks with asymmetric gain landscapes. *Journal of Vision*, **6**, 53-63.
67. *Boyaci, H., Doerschner, K., & Maloney, L. T.* (2006), Cues to an equivalent lighting model, *Journal of Vision*, **6**, 106-118.
66. **Maloney, L. T.** (2006), Perception of surface color in three-dimensional scenes: Outside the Mondrian singularity. *Transactions of the Technical Committee on Psychological and Physiological Acoustics*, Acoustical Society of Japan, **36**, 753-758.
65. *Fulvio, J.M., Singh, M., & Maloney, L.T.* (2006). Testing the relatability hypothesis: Inducer offset, not turning angle, is critical for visual interpolation. *Visual Cognition (Object Perception, Attention, and Memory (OPAM) 2006 Conference Report)*, **15**(1), 83-87.
64. *Fulvio, J. M., Singh, M. & Maloney, L. T.* (2006), Consistency of location and gradient judgments of visually-interpolated contours. *Computer Vision and Pattern Recognition, Proceedings '06*, 0-7695-2646-2/06.
63. **Maloney, L. T.**, Dal Martello, M. F., Sahm, C. & Spillmann, L. (2005), Past trials influence perception of ambiguous motion quartets through pattern completion. *Proceedings of the National Academy of Sciences, USA*, **102**, 3164-3169.
62. *Trommershäuser, J., Gepshtein, S., Maloney, L. T., Landy, M. S. & Banks, M. S.* (2005), Compensation for changes in effective movement variability. *Journal of Neuroscience*, **25**, 7169-7178.
61. Graf, E. W., Warren, P. A. & **Maloney, L. T.** (2005), Explicit estimation of visual uncertainty in human motion processing. *Vision Research*, **45**, 3050-3059.
60. *Snyder, J. L., Doerschner, K., & Maloney, L. T.* (2005), Illumination estimation in three-dimensional scenes with and without specular cues, *Journal of Vision*, **5**, 863-877.

59. Wolfe, U., **Maloney, L. T.** & Tam, M. (2005), Distortions of perceived length in the fronto-parallel plane: Tests of perspective theories, *Perception & Psychophysics*, **67**, 967-979.

58. **Maloney, L. T.**, Boyaci, H. & Doerschner, K. (2005), Surface color perception as an inverse problem in biological vision. *Proceedings of the SPIE - IS & T Electronic Imaging*, **5674**, 15-26.

#### 2003-2004

57. Boyaci, H., Doerschner, K. & **Maloney, L. T.** (2004), Perceived surface color in binocularly-viewed scenes with two light sources differing in chromaticity. *Journal of Vision*, **4**, 664-679.

56. Warren, P.A. **Maloney, L. T.** & Landy, M. S. (2004), Interpolating sampled contours in 3D: Perturbation analyses. *Vision Research*, **44**, 815-832.

55. Doerschner, K., Boyaci, H. & **Maloney, L. T.** (2004), Human observers compensate for secondary illumination originating in nearby chromatic surfaces, *Journal of Vision*, **4**, 92-105.

54. Brainard, D. H. & **Maloney, L. T.** (2004), Perception of color and material properties in complex scenes [special issue introduction], *Journal of Vision*, **4**, ii-iv.

53. Trommershäuser, J., **Maloney, L. T.** & Landy, M. S. (2003), The consistency of bisection judgments in visual grasp space. *Journal of Vision*, **3**, 795-807.

52. Oruç, I., **Maloney, L. T.**, & Landy, M. S. (2003), Weighted linear cue combination with possibly correlated error, *Vision Research*, **43**, 2451-2468.

51. Trommershäuser, J., **Maloney, L. T.** & Landy, M. S. (2003), Statistical decision theory and the selection of rapid, goal-directed movements. *Journal of the Optical Society A*, **20**, 1419-1433. Included in *Virtual Journal of Biological Physics Research*, July 15, 2003.

50. **Maloney, L. T.** & Yang, J. N. (2003), Maximum likelihood difference scaling. *Journal of Vision*, **3**, 573-585.

49. Boyaci, H., **Maloney, L. T.** & Hersh, S. (2003), The effect of perceived surface orientation on perceived surface albedo in three-dimensional scenes, *Journal of Vision*, **3**, 541-553.

48. Trommershäuser, J., **Maloney, L. T.** & Landy, M. S. (2003), Statistical decision theory and tradeoffs in motor response. *Spatial Vision*, **16**, 255-275.

47. **Maloney, L. T.** & Yang, J. N. (2003), The illumination estimation hypothesis and surface color perception. Mausfeld, R., & Heyer, D. [Eds], *Colour: Connecting the Mind to the Physical World*. Oxford: Oxford University Press, pp. 335-358.

46. **Maloney, L. T.** (2003), Surface color perception and environmental constraints. In Mausfeld, R., & Heyer, D. [Eds], *Colour: Connecting the Mind to the Physical World*. Oxford: Oxford University Press, pp. 279-299.

45. **Maloney, L. T.** (2003), Surface color perception in constrained environments [commentary]. *Behavioral & Brain Sciences*, **26**, 38-39.

44. **Maloney, L. T.** (2003). Statistical decision theory and evolution [research focus]. *Trends in Cognitive Science*, **7**, 473-475.

43. **Maloney, L. T.** (2003). The processing of chromatic information [commentary]. In Mausfeld, R., & Heyer, D. [Eds], *Colour: Connecting the Mind to the Physical World*. Oxford: Oxford University Press, pp. 153-154.

42. **Maloney, L. T.** (2003). The importance of realistic models of surface and light in the study of human colour vision [commentary]. In Mausfeld, R., & Heyer, D. [Eds], *Colour: Connecting the Mind to the Physical World*. Oxford: Oxford University Press, pp. 243-246.

41. **Maloney, L. T.** (2003). Fitting linear models to data [commentary]. In Mausfeld, R., & Heyer, D. [Eds], *Colour: Connecting the Mind to the Physical World*. Oxford: Oxford University Press, pp. 275-278.
40. **Maloney, L. T.** (2003). Surface colour perception and its environments [commentary]. In Mausfeld, R., & Heyer, D. [Eds], *Colour: Connecting the Mind to the Physical World*. Oxford: Oxford University Press, pp. 329-330.

### 1997-2002

39. **Maloney, L. T.** (2002), Illuminant estimation as cue combination. *Journal of Vision*, **2**, 493-504.
38. *Warren, P. A., Maloney, L. T., & Landy, M. S.* (2002), Interpolating sampled contours in 3D: Analyses of variability and bias. *Vision Research*, **42**, 2431-2446.
37. **Maloney, L. T.** & Schirillo, J. A. (2002), Color constancy, lightness constancy, and the articulation hypothesis [special issue introduction], *Perception*, **31**, 135-139.
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### 1991-1996

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1. Wandell, B. A., Sanchez, J., and **Maloney, L. T.** (1982), Adaptation in the long-wavelength pathways. *Vision Research*, **22**, 1071-1074.

## INVITED CONFERENCE AND WORKSHOP PRESENTATIONS [ 2005 - PRESENT ]

- Maloney, L. T.** (2012), Statistical decision theory, perception and action. European Summer School, "Visual neuroscience: from spikes to awareness", Rauschholzhausen, Germany, August 19-31, 2012.
- Maloney, L. T.** (2011), Decision making, perception and action. Workshop: "Probabilistic models of cognition." International Conference on Decision Making, Centre of Behavioural and Cognitive Sciences, University of Allahabad, Allahabad, India, December 9-12, 2011.
- Maloney, L. T.** (2011), Decision-theoretic models of action in space. Workshop: "Probabilistic models of cognition." Sestri Levante, Liguria, Italy, July 19-21, 2011.
- Maloney, L. T.** (2011), Decision-theoretic models of perception and action. Graduate Summer School: "Probabilistic models of cognition." Institute for Pure and Applied Mathematics, University of California, Los Angeles, July 6-16, 2011.
- Maloney, L. T.** (2011), Surface color and material perception and measurement theory, Workshop on "Perception of Material Properties and Color". Rauschholzhausen, Germany, June 1-5, 2011.
- Maloney, L. T.** (2011), Perception, action, and uncertainty, Fifteenth International Conference on Cognitive and Neural Systems, Boston, MA, May 11-14, 2011.
- Maloney, L. T.** (2011), Learning and knowing, The Snowbird Learning Workshop, Ft. Lauderdale, FL, April 13-16, 2011.
- Maloney, L. T.** (2011), Distortions of probability information in human judgment: ubiquitous log odds. 2011 Minerva Workshop, Technion, Haifa, Israel, January 14, 2011.
- Maloney, L. T.** (2010), Statistical decision theory, perception and action. European Summer School, "Visual neuroscience: from spikes to awareness", Rauschholzhausen, Germany, August-September, 2010.
- Maloney, L. T.** (2010), Decision under risk, movement under risk. Plenary Address, Mathematical Psychology 2010, August 7-10, 2010, Portland, OR.
- Maloney, L. T.** (2010), Perception of color and material in 3D. Keynote address, Innovative Manufacturing Research Conference, Heriot-Watt University, Edinburgh, Scotland, July, 2010.
- Maloney, L. T.** (2009), Estimating and discounting the light field: perception of surface color in three-dimensional virtual scenes. Symposium on Color Constancy, OSA Fall Vision Meeting, Seattle, WA, September 24-27, 2009. Presentation T20.
- Maloney, L. T., Trommershäuser, J. & Daw, N. C.** (2009), Learned and prior structure in the selection of movements, European Science Foundation Workshop: "Computational principles of sensorimotor learning", Kloster Irsee, Germany, September, 2009.
- Maloney, L. T.** (2009), Statistical models of perception and action. European Research Training Network CODDE, "Computational Vision", Rauschholzhausen, Germany, August, 2009.
- Maloney, L. T.** (2009), Illuminant estimation as cue combination. CVR Vision Conference: Vision in 3D Environments. York, ON Canada, June 23-26, 2009.
- Maloney, L. T.** (2009), Perception, action, uncertainty. WICN Public Lecture, University of Bangor, Bangor, Wales, June, 2009.
- Maloney, L. T.** (2009), Measuring and modeling the visual appearance of surfaces. Symposium "Modern approaches to modeling visual data" at the Vision Sciences Society Meeting, Naples, FL, May, 2009.

- Maloney, L. T.** (2008), Perception of transformations induced by changing scene illumination. Workshop: "Surface color and material perception", University of Pennsylvania, Philadelphia, PA, October, 2008.
- Maloney, L. T.** (2008), Unnatural tasks, unnatural scenes: Testing Bayesian models of perception and action. European Summer School, "Visual neuroscience: from spikes to awareness", Rauischholzhausen, Germany, August-September, 2008.
- Maloney, L. T.** (2008), Testing Bayesian models of perception, action and cognition: The importance of unnatural scenes. Gordon Research Conference: Sensory coding and the natural environment, Lucca (Barga), Italy, July, 2008.
- Maloney, L. T.** (2008), Surface color perception in three-dimensional scenes. Symposium: "The appearance of colored objects" International Congress of Psychology, Berlin, Germany, July, 2008.
- Maloney, L. T.** (2008), Decision making under risk, movement planning under risk. Symposium: Perception and performance in real, complex environments. International Congress of Psychology, Berlin, Germany, July, 2008.
- Maloney, L. T.** (2008), Multiple material surface properties, multiple visual cues. Symposium S8 "Surface material perception" at the Vision Sciences Society Meeting, Naples, FL, May, 2008.
- Maloney, L. T.** (2008), Bayesian decision theory, visual perception and the planning of movement. Workshop: "Natural environments, tasks and intelligence," *Center for Perceptual Systems*, University of Texas, Austin, March, 2008.
- Maloney, L. T.** (2008), Anthropocentric realism in three-dimensional scenes. Conference: "The horizons of vision research", *Center for Cognitive Science*, California State University, Long Beach, CA March, 2008.
- Maloney, L. T.** (2007), Bayesian decision theory, visual perception and the planning of movement. "NSF Conference on mathematics and psychology" Institute for Mathematical Behavioral Sciences, Irvine, CA, November, 2007.
- Maloney, L. T.** (2007), Perception of surface color and material in three-dimensional scenes. Workshop: "Perception and performance in real, complex environments," Kyushu University, Kyushu, Japan, October, 2007.
- Maloney, L. T.** (2007), Statistical decision theory as a framework for cognition and action. Graduate Summer School: "Probabilistic models of cognition: The mathematics of mind." Institute for Pure and Applied Mathematics, University of California, Los Angeles, July, 2007.
- Maloney, L. T.** (2007), Decision making under risk, movement planning under risk. Tübinger Neurokolloquium, Eberhard-Karls-Universität, Tübingen, Germany, May, 2007
- Maloney, L. T.** (2006), Perception of surface color in three-dimensional scenes; outside the Mondrian singularity. *Invited address, Annual Meeting of the Virtual Reality Society of Japan*, Acoustical Society of Japan, Fukuoka, Kyushu University, Kyushu, Japan, December, 2006.
- Maloney, L. T.** (2006), Decision making under risk, movement planning under risk *Jacob Marschak Interdisciplinary Colloquium* University of California, Los Angeles, Los Angeles, CA, October, 2006.
- Maloney, L. T., Boyaci, H., Doerschner, K. & Snyder, J. L.** (2006), Surface color perception in three-dimensional scenes. *Color Vision Symposium, Tagung experimentell arbeitender Psychologen: TeaP2006*, Mainz, Germany, March, 2006.
- Maloney, L. T. Dean, M. & Wu, S.-W.** (2006) Mixing memory and desire: Bayesian decision theory as a framework for perception and action and an experimental test of the framework. *Workshop: Bridging the gap between sensation and motor control: from computation to behavior*, Rauischholzhausen, Germany, July, 2006.

- Maloney, L. T.** (2006) The economics of movement planning. Keynote address, *Tagung experimentell arbeitender Psychologen: TeaP2006*, Mainz, Germany, March 2006.
- Maloney, L. T., Boyaci, H., Doerschner, K. & Snyder, J. L.** (2006), Surface color perception in three-dimensional scenes. *Color Vision Symposium, Tagung experimentell arbeitender Psychologen: TeaP2006*, Mainz, Germany, March, 2006.
- Maloney, L. T., Boyaci, H. & Doerschner, K.** (2006), Representing and estimating illumination in complex, three-dimensional scenes. *Institute for Mathematics and its Applications: Workshop on Natural Images*, University of Minnesota, Minneapolis, Minnesota, March, 2006.
- Maloney, L. T., Dean, M. & Wu, S.-W.** (2006) Movement planning and speed-accuracy tradeoffs. *Workshop: Bridging the gap between sensation and motor control: from computation to behavior*, Université de Paris V, Paris, France, February, 2006.
- Maloney, L. T.** (2005), Surface color perception with spatially non-uniform illumination. keynote address, *Conference of the International Colour Vision Society*, Lyon, France, July, 2005.
- Maloney, L. T.** (2005), Speeded decision making, *AFOSR Workshop: Integrated Models of Cognitive Systems*, Saratoga Springs, New York, March, 2005.
- Maloney, L. T., Boyaci, H. & Doerschner, K.** (2005), Surface color perception as an inverse problem in biological vision, keynote address, *IS&T/SPIE Conference on Electronic Imaging: Science and Technology*, San Jose, California, January, 2005.

## RECENT CONFERENCE ABSTRACTS [ 2005-PRESENT ]

[Authors in italics were pre- or post-doctoral students working with me]

### 2011

Knoblauch, K. & **Maloney, L. T.** (2011), Mixed-effects maximum likelihood difference scaling. *UserR! 2011, University of Warwick, Coventry, UK, August 16-18, 2011, under review.*

*Juni, M. Z.*, Gureckis, T. M. & **Maloney, L. T.** (2011), Don't stop 'til you get enough: adaptive information sampling in a visuomotor estimation task. *Cognitive Sciences 201, in press.*

Charrier, C., Knoblauch, K., **Maloney, L. T.**, & Bovik, A. C. (2011), Calibrating MS-SSIM for compression distortions using MLDS. *18<sup>th</sup> IEEE International Conference on Image Processing (ICIP 2011)*, Brussels, Belgium, *accepted, 4/18/2011.*

Knoblauch, K. & **Maloney, L. T.** (2011), Estimating perceptual scales with interval properties. PsychoCo 2011: International Workshop on psychometric computing, Tübingen, Germany, February 24-25, 2011, *accepted.*

*Juni, M. Z.*, Gureckis, T. M. & **Maloney, L. T.** (2011), Adaptive cue combination in a visual estimation task. Paper 63.319 presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *forthcoming.*

*Zhang, H.*, Daw, N. & **Maloney, L. T.** (2011), Testing whether humans have an accurate model of their own motor uncertainty in a speeded reaching task. Paper 55.12 presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *forthcoming.*

**Maloney, L. T.** & Dal Martello, M. F. (2011), Kin recognition based on viewing photographs of children's faces is not affected by facial inversion. Paper 61.26 presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *forthcoming.*

### 2010

**Maloney, L. T.** & *Zhang, H.* (2010), Control and prediction of probability distortion in human judgment, Paper presented at the annual meeting of the Society for Judgment and Decision Making, St. Louis, MO, November, 20-22, 2010, *accepted.*

*Zhang, H.* & **Maloney, L. T.** (2010), Economic navigation: planning routes across terrains varying in cost. Annual Meeting of the Psychonomic Society, November 18-21, 2010, St. Louis, MO, *accepted.*

Warren, P. A., Graf, E. W., **Maloney, L. T.** & Champion, R. A. (2009), Explicit estimation of visual uncertainty: a new motion extrapolation paradigm. European Conference on Visual Perception, Regensburg, Germany, August 2009. Abstract: *Perception 38*, Abstract Supplement:, *accepted.*

*Zhang, H.*, *Maddula, S. V.* & **Maloney, L. T.** (2010), Path planning in economic terrains: Heuristics and optimization. European Conference on Visual Perception, Lausanne, Switzerland, August 2010. Abstract: *Perception 39*, Abstract Supplement:, *accepted.*

**Maloney, L. T.** & *Zhang, H.* (2010) The neural representation of uncertainty. Gordon Research Conference: Sensory coding & the natural environment. Bates College, Lewiston, ME, July 25-30, 2010, *accepted.*

*Kleinholdermann, U.*, *Franz, V. H.* & **Maloney, L. T.** (2010) No pain no gain: assessment of the grasp penalty function. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision, J Vis, 10(7)*, 1083.

- Pedersini, R., Morvan, C., Maloney, L. T., Horowitz, T. S. & Wolfe, J. M.* (2010), An abstract equivalent of visual search: gain maximization fails in the absence of visual judgments. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision, J Vis, 10(7)*, 1311.
- Juni, M. Z., Gureckis, T. M. & Maloney, L. T.* (2010), Integration of visual information across time. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision, J Vis, 10(7)*, 1213.
- Gerhard, H. E. & Maloney, L. T.* (2010), A model of illumination direction recovery applied to dynamic, three-dimensional scenes. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision, J Vis, 10(7)*, 445.
- Zhang, H., Morvan, C., Etezzad-Heydari, L.-A., Maloney, L. T.* (2010), Eye-hand coordination in finding and touching a target among distractors. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision, J Vis, 10(7)*, 532.
- Morvan, C., Zhang, H. & Maloney, L. T.* (2010), Observers are inconsistent and inaccurate in judging their own visual detection ability at different retinal locations Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision, J Vis, 10(7)*, 1303.
- Maloney, L. T. & Zhang, H.** (2010), Ubiquitous log odds: distortion of frequency estimates in visual numerosity tasks. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract, *Journal of Vision, J Vis, 10(7)*: 1204.
- Kwon, O.-S., Gerhard, H. E. & Maloney, L. T.* (2010), Surface reflectance models based on characteristic functions. *CGIV 2010/MCS'10 5<sup>th</sup> European Conference on Colour in Graphics, Imaging and Vision/12<sup>th</sup> International Symposium on Multispectral Colour Science*, accepted.
- Charrier, C., Knoblauch, K., Morthy, A. Bovik, A. C. & Maloney, L. T.* (2010), On the comparison of Image Quality Assessment Algorithms, *Electronic Imaging '10: Image quality and system performance*. San Jose, CA, January, 2010, accepted.
- 2009**
- Pedersini, R., Morvan, C., Maloney, L. T., Horowitz, T. S. & Wolfe, J. M.* (2009), Do subjects maximize gain in search? Comparison of visual and nonvisual sequential decision making tasks, Paper presented at the annual meeting of the Society for Judgment and Decision Making, Boston, MA, November, 2009, accepted for presentation.
- Oliver, R., MacIntyre, L. Doerschner, K. Maloney, L. T., & Brainard, D. H.* (2009), Interaction between stimulus depth and color appearance: in search of large effects. Paper presented at the Fall Vision Meeting, Seattle, WA, September, 2009, *accepted for presentation*.
- Trommershäuser, J., Daw, N. D. & Maloney, L. T.* (2009) Learned and prior structure in the selection of movements. Paper presented at the Annual Meeting of the Society for Neuroscience ,Chicago, Illinois, November, 2009, *accepted for presentation*.
- Morvan, C. & Maloney, L. T.* (2009), Suboptimal selection of initial saccade in a visual search task. European Conference on Visual Perception, Regensburg, Germany, August 2009. Abstract: *Perception 38*, Abstract Supplement:, accepted for presentation.
- Gerhard, H. E. & Maloney, L. T.* (2009), Inferred motion perception of light sources in three-dimensional scenes Is colorblind. European Conference on Visual Perception, Regensburg, Germany, August 2009. Abstract: *Perception 38*, Abstract Supplement:, accepted for presentation.
- Warren, P. A., Graf, E. W., Maloney, L. T. & Champion, R. A.* (2009), Explicit estimation of visual uncertainty: a new motion extrapolation paradigm. European Conference on Visual Perception, Regensburg, Germany, August 2009. Abstract: *Perception 38*, Abstract Supplement:, accepted for presentation.

- Juni, M. Z., Singh, M. & **Maloney, L. T.** (2009), Are observers robust when localizing simple, 'uncontaminated' dot clusters? European Conference on Visual Perception, Regensburg, Germany, August 2009. Abstract: *Perception* **38**, Abstract Supplement:, accepted for presentation.
- Knoblauch, K. & **Maloney, L. T.** (2009), Maximum likelihood conjoint measurement in R. *UseR!* 2009, Rennes, France, July 8-10, 2009.
- Morvan, C. & **Maloney, L. T.** (2009), Sub-optimal selection of initial saccade in a visual search task. Paper presented at *Computational and Systems Neuroscience 2009*, Salt Lake City, Utah, Paper 400.
- Gerhard, H. E., Wolfe, U. & **Maloney, L. T.** (2009), Dissociations between perceived and actual success in goal-directed movements. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, accepted for presentation.
- Maloney, L. T.** & Dal Martello, M. F. (2009), Where is kinship information in the child's face? Signal detection study finds no evidence for lateralization. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, accepted for presentation.
- Fulvio, J. M., Schrater, P. & **Maloney, L. T.** (2009), Reduced sampling of dynamic trajectories does not increase extrapolation bias. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, accepted for presentation.
- Glaser, C. Trommershäuser, J., Mamassian, P. & **Maloney, L. T.** (2009), Comparison of distortions of probability information in three stochastic tasks: visual, visuo-motor and decision making under risk. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, accepted for presentation.
- Morvan, C. & **Maloney, L. T.** (2009), Sub-optimal selection of initial saccade in a visual search task. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, accepted for presentation.
- Zhang, H., Wu, S.-W., & **Maloney, L. T.** (2009), Practice does not make perfect: time allocation in sequential movements. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, accepted for presentation.

## 2008

- Wu, S.-W., Delgado, M. R. & **Maloney, L. T.** (2008), The neural correlates of value and probability in decision under risk and in an equivalent motor task. Paper presented at *the Annual Meeting of the Society for Neuroscience*, November, 2008, Washington, D.C.
- Maloney, L. T.** & Mamassian, P. & (2008), The visual system uses different estimators for different distributions in a novel task even without feedback or the possibility of learning. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, **8(6)**, 74.
- Juni, M. Z., Singh, M. & **Maloney, L. T.** (2008), Testing for robustness in visual localization of dot clusters without part structure. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, **8(6)**, 1014.
- Fulvio, J. M., Hudson, T. E. & **Maloney, L. T.** (2008), Motor extrapolation of occluded spatiotemporal contours. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, **8(6)**, 618.
- Wolfe, U., Gerhard, H. E. LaCasse, S. & **Maloney, L. T.** (2008), Estimates of performance in a visuo-motor task are accurate, but not after joint movement is constrained. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, **8(6)**, 614.

- Gerhard, H. E. & **Maloney, L. T.** (2008), Albedo perturbation detection under illumination transformations: A dynamic analogue of lightness constancy. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, **8(6)**, 289.
- Knoblauch, K. & **Maloney, L. T.** (2008), Classification images estimated by generalized additive models. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, **8(6)**, 344.
- Tokunaga, R., Logvinenko, S. & **Maloney, L. T.** (2008), Colour dissimilarities under neutral light sources differing in intensity measured using two competing methods Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, **8(6)**, 571.
- Wu, S.-W. & **Maloney, L. T.** (2008), Neural correlates of value and probability in decision under risk and in an equivalent motor task. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, **8(6)**, 545.
- Trommershäuser, J., Mamassian, P. & **Maloney, L. T.** (2008), Preference in a stochastic visual cognitive task with probability information learned through experience. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, **8(6)**, 469.
- Wu, S.-W. & **Maloney, L. T.** (2008), Neural correlates of value and probability in decision under risk and in an equivalent motor task. Paper presented at *Computational and Systems Neuroscience 2008*, Salt Lake City, Utah.

## 2007

- Wu, S.-W. & **Maloney, L. T.** (2007), Decision making under risk compared to an equivalent motor task. Annual Conference of the Neuroeconomics Society, Hull, Massachusetts, September, 2007.
- Fulvio, J. M., Singh, M. & **Maloney, L. T.** (2007), Location and orientation judgments within the Poggendorff configuration are inconsistent. Annual Workshop on Object Perception, Attention and Memory (OPAM), Long Beach, CA, November, 2007, Abstract: *Visual Cognition* (Object Perception, Attention, and Memory (OPAM) 2006 Conference Report), *15*(1), 83-87.
- Maloney, L. T.** & Gerhard, H. E. (2007), Detecting illumination changes in three-dimensional scenes. Meeting of the *International Society of Psychophysics: Fechner Day 2007*, Tokyo, Japan, October, 2007.
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- Knoblauch, K. & **Maloney, L. T.** (2007), MLDS: Maximum likelihood difference scaling in R. *useR! American Statistical Association Sections on Statistical Graphics and Computing*, Iowa State University, Ames, Iowa, August, 2007.
- Trommershäuser, J., Mamassian, P. & **Maloney, L. T.** (2007) Human decision making in a probabilistic visual task: Testing a model based on expected utility, Paper presented at *Computational and Systems Neuroscience 2007*, Salt Lake City, Utah, paper 186.

- Schultz, S. & **Maloney, L. T.** (2007), Influence of luminance and saturation on protanopic hue scaling. *Tagung experimentell arbeitender Psychologen: TeaP2007*, Trier, Germany, March 2007.
- Hudson, T. E., Wolfe, U. & **Maloney, L. T.** (2007) The covariance structure of speeded reaching movements. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **7(9)**, 171.
- Wolfe, U., Gray, J. & **Maloney, L. T.** (2007), Constraint-induced learning in a visually-guided motor task. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **7(9)**, 169.
- Wu, S.-W., Dal Martello, M. F. & **Maloney, L. T.** (2007), Performance in rapid sequential visually-guided pointing movements. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **7(9)**, 167.
- Maloney, L. T.**, Doerschner, K. & Brainard, D. H. (2007), Color constancy in 3D scenes: contrasting illumination-estimation and heuristic models. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **7(9)**, 458.
- Gerhard, H. E., Khan, R. & **Maloney, L. T.** (2007), Relational color constancy in the absence of ratio constancy. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **7(9)**, 459.
- Fulvio, J. M., Singh, M. & **Maloney, L. T.** (2007), Breakdown of contour interpolation: Testing a multiple-contours hypothesis. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **7(9)**, 111.
- Fleming, R. W., Jäkel, F. & **Maloney, L. T.** (2007), Visual perception of refractive materials. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **7(9)**, 561.
- Ho, Y.-H., Landy, M. S. & **Maloney, L. T.** (2007), The appearance of glossy, bumpy surfaces. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **7(9)**, 450.

## 2006

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- Hudson, T. E., **Maloney, L. T.** & Landy, M. S. & (2006) Optimality of reach timing under risk. Paper presented at the Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, November, 2006, accepted.
- Maloney, L. T.**, Ho, Y.-X. & Landy, M. S. (2006), Failures of visual constancies due to erroneous cue recruitment? *Symposium on Associative Learning in Perception*. European Conference on Visual Perception, Sankt Peterburg, Russia, August 2006. Abstract: *Perception* **35**, Abstract Supplement.
- Wu, S.-W., Dal Martello, M. F. & **Maloney, L. T.** (2006) trajectory planning in sequential pointing movements *Workshop: Bridging the gap between sensation and motor control: from computation to behavior*, Rauschholzhausen, Germany, July, 2006.
- Fulvio, J. M., Singh, M. & **Maloney, L. T.** (2006), Consistency of location and gradient judgments of visually-interpolated contours. *5th IEEE Computer Society Workshop on Perceptual Organization in Computer Vision*. Abstract: *Computer Vision and Pattern Recognition, Proceedings '06*, accepted.

- Maloney, L. T., Wu, S.-W. & Dal Martello, M. F.** (2006) Movement planning under risk differs from decision making under risk in how subjects make use of probability information Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **6**, 928a.
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- Singh, M., Cohen, E. H., & **Maloney, L. T.** (2006) The influence of perceptual segmentation on the perceived orientation of dot clusters. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **6**, 761a.
- Ho, Y.-H., Maloney, L. T. & Landy, M. S.,** (2006) The effect of viewpoint on visually perceived surface roughness in binocularly-viewed scenes. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **6**, 262a.
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- Rhodes, G., **Maloney, L. T.,** Turner, J. & Ewing, L. (2006) Is the average face special? Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **6**, 283a.
- Wu, S.-W., Dean, M. & Maloney, L. T.** (2006) Humans trade off speed and accuracy so as to nearly maximize expected gain in planning movements to targets that rapidly decrease in reward across time. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **6**, 927a.
- Trommershäuser, J., Landy, M. S. & **Maloney, L. T.** (2006) Sensori-motor choices based on a rapid judgment of expected gain, Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **6**, 923a.
- Fulvio, J. M., Singh, M. & Maloney, L. T.** (2006) The human visual spline: Interpolation contours between relatable inducers follow quintic polynomials. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **6**, 100a.
- Dal Martello, M. F. & **Maloney, L. T.** (2006) Where are kin recognition cues in the face? Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **6**, 7a.
- Schultz, S. & Maloney, L. T.** (2006), Farbkonstanz: Einfluss chromatischer Adaptation auf Hue Scalings. *Tagung experimentell arbeitender Psychologen: TeaP2006*, Mainz, Germany, March 2006.
- Trommershäuser, J., Landy, M. S. & **Maloney, L. T.** (2006) Sensori-motor choices based on a rapid judgment of expected gain, *Tagung experimentell arbeitender Psychologen: TeaP2006*, Mainz, Germany, March 2006.
- Schultz, S., Doerschner, K. & Maloney, L. T.** (2006), Color constancy and hue scaling. *Tübinger Wahrnehmungskonferenz: TWK2006*, Tübingen, Germany, March 2006.

## 2005

- Fulvio, J. M., Singh, M. & Maloney, L. T.** (2005), The chromatic and achromatic components of perceived transparency. Annual Workshop on Object Perception, Attention and Memory (OPAM), Toronto, Canada, November, 2005.

- Snyder, J. L., Mulligan, J. B. & **Maloney, L. T.** (2005), A reaction time model of self-terminating configural search in complex displays. European Conference on Visual Perception, A Coruña, Spain, August 2005. Abstract: *Perception* (Supplement) , **34**, 150.
- Maloney, L. T.** , Wu, S.-W. & Dal Martello, M. F. (2005), Planning sequences of arm-hand movements to maximize expected gain. European Conference on Visual Perception, A Coruña, Spain, August 2005. Abstract: *Perception* (Supplement), **34**, 16.
- Doerschner, K., Boyaci, H. & **Maloney, L. T.** (2005), Spherical harmonic representation of illumination in complex, 3D scenes. European Conference on Visual Perception, A Coruña, Spain, August 2005. Abstract: *Perception* (Supplement), **34**, 112.
- Logvinenko, A., Petrini, K. & **Maloney, L. T.** (2005), Multidimensional scaling analysis of Adelson's snake lightness illusion. European Conference on Visual Perception, A Coruña, Spain, August 2005. Abstract: *Perception* (Supplement), **34**, 23.
- Cuijpers, R. H., Landy, M. S., **Maloney, L. T.**, Brenner, E., Smeets, J. B. J. (2005), Biomechanical costs and grip planning: a model. European Conference on Visual Perception, A Coruña, Spain, August 2005. Abstract: *Perception* (Supplement), **34**, 246.
- Maloney, L. T.**, Boyaci, H. & Doerschner, K. (2005), Surface color perception in three-dimensional scenes with non-uniform spatial and spectral distribution of illumination. *Computational and Systems Neuroscience 2005*, Salt Lake City, Utah, March, 2005.
- Trommershäuser, J., **Maloney, L. T.** & Landy, M. S. (2005), Decision making and movement planning under risk, *Computational and Systems Neuroscience 2005*, Snowbird, Utah, March, 2005.
- Wu, S.-W., **Maloney, L. T.** & Dal Martello, M. F. (2005), Movement planning in a rapid 'foraging' task: Maximization of expected gain in strategy selection? Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **5 (8)**, 125a.
- Hudson, T. E., Landy, M. S. & **Maloney, L. T.** (2005), Planning movements with partial knowledge of target location encoded as a spatial prior. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **5 (8)**, 624a.
- Fulvio, J. M., Singh, M. & **Maloney, L. T.** (2005), Combining achromatic and chromatic cues to transparency. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **5 (8)**, 566a.
- Maloney, L. T.**, Boyaci, H & Doerschner, K., (2005), Representing the spatial and chromatic distribution of the illuminant in scenes with multiple punctate chromatic light sources. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **5 (8)**, 786a.
- Dal Martello, M. F., **Maloney, L. T.**, Sahm, C., & Spillmann, L. (2005), How the past gives way to the present: Evidence for Bayesian updating with repeated presentation of ambiguous motion quartets. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **5 (8)**, 661a.
- Doerschner, K., Boyaci, H & **Maloney, L. T.** (2005), Representing spatially and chromatically varying illumination using spherical harmonics in human vision. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **5 (8)**, 785a.
- Ho, Y.-H., Landy, M. S., **Maloney, L. T.** (2005), Change in illuminant direction alters perceived surface roughness. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: *Journal of Vision*, **5 (8)**, 568a.

*Faludi, R., Avakov, J., Maloney, L. T., Carrasco, M. (2005), Covert transient attention affects motor response trajectories. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, Florida, Abstract: Journal of Vision, 5 (8), 166a.*

**RECENT TALKS [ 2004-PRESENT ]**

Center for Visual Science  
University of Rochester  
Rochester, New York  
April 25, 2011

Applied Math  
Weizmann Institute  
Rehovot, Israel  
January 12, 2011

Institute for Neurology  
University College, London  
London, England UK  
December 9, 2010

Center for Neuroscience and Cognitive Systems  
Italian Institute of Technology  
Rovereto, Trento, Italy  
October 18, 2010

Department of Psychology  
University of Manchester  
Manchester England, UK  
February 4, 2010

Math & Computer Sciences  
Heriot-Watt University  
Edinburgh, Scotland, UK  
November 11, 2009

Functional Imaging Laboratory  
University College, London  
London, England UK  
November 13, 2009

Department of Psychology  
University of Bangor  
Bangor, Wales UK  
June 11, 2009

Center for Physics and Biology  
Rockefeller University  
New York, NY  
February 10, 2009

Department of Psychology  
University College, London  
London, England UK  
January 22, 2009

Department of Experimental Psychology  
Oxford University  
Oxford, England UK  
January 20, 2009

Department of Engineering  
University of Cambridge  
Cambridge, England UK  
January 19, 2009

Department of Psychology  
Cardiff University  
Cardiff, Wales, UK  
January 15, 2009

Department of Psychology  
Bilkent University  
Ankara, Turkey  
December 3, 2008

Department of Psychology  
Justus-Liebig-Universität  
Giessen, Germany  
November 12, 2008

Vision Seminar  
MIT  
Cambridge, MA  
October 24, 2008

Visual Attention Lab  
Harvard Medical  
Cambridge, MA  
October 23, 2008

Bernstein Center  
Humboldt Universität  
Berlin, Germany  
September 3, 2008

Department of Psychology  
Università di Padova  
Padova, Italy  
June, 2008

Sloan-Swartz Center for Theoretical Neurobiology  
Salk Institute  
San Diego, CA  
December, 2007

Max Planck Institute for Biological  
Cybernetics  
Tübingen, Germany  
May, 2007

Perceptual Science Program  
Rutgers University  
New Brunswick, NJ USA  
May, 2007

Institute for Math. Behavioral Sciences  
University of California, Irvine  
Irvine, CA  
October, 2006

Department of Psychology  
McMaster University  
Hamilton, Ontario, Canada  
September, 2006

Department of Psychology  
Harvard University  
Cambridge, MA  
May, 2006

Lab. de Psychologie de la Perception  
CNRS & Université Paris V  
Paris, France  
February, 2006

Center for Cognitive Science  
Università Vita Salute San Raffaele  
Milano, Italy  
November, 2004

Department of Psychology  
Yale University  
New Haven, CT  
September, 2004

Max Planck Institute for Biological  
Cybernetics  
Tübingen, Germany  
June, 2004

Department of Physiology  
Oxford University  
Oxford, England UK  
May, 2004

Department of Psychology  
Glasgow University  
Glasgow, Scotland UK  
May, 2004

Department of Physiology  
Newcastle University  
Newcastle, England UK  
May, 2004

Department of Psychology  
University College, London  
London, England UK  
May, 2004

Institute of Neurology  
University College, London  
London, England UK  
May, 2004

Department of Psychology  
University of Texas, Austin  
Austin, TX USA  
April, 2004