



## CURRICULUM VITAE

# LAURENCE T MALONEY

## PROFESSOR, PSYCHOLOGY & NEURAL SCIENCE

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### EDUCATION

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

### APPOINTMENTS

2004 –	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

### HONORS

Humboldt Research Prize of the Alexander von Humboldt Foundation, Germany, 2008.  
 Troland Research Award of the National Academy of Sciences, USA, 1987.  
 Guggenheim Fellow, John Simon Guggenheim Foundation, 2015 - 2016.  
 Fulbright Scholar, Fulbright Scholar Program, Budapest, Hungary, 2014 - 2015.  
 Resident Fellow, Zentrum für interdisziplinäre Forschung, Bielefeld, Germany, 1995 - 1996.  
 Resident Fellow, Institut d'études avancées de Paris, Paris, France, 2019 - 2020.  
 Forchheimer Visiting Professor, Computer Science, Hebrew University, Jerusalem, 1999.  
 WICN Visiting Scholar, Wales Institute of Cognitive Neuroscience, Bangor University, Bangor, Wales, 2009.

Fellow, American Association for the Advancement of Science, elected 2012.  
 Fellow, Association for Psychological Science, elected 2011.  
 Fellow, Psychonomics Society, elected 2010.  
 Fellow, Society for Experimental Psychologists, elected 2009.

Golden Dozen Teaching Award, New York University, 1994.

## GRANTS

Allocation of accumulated resources across time. \$584,183 direct + indirect costs, PI, National Science Foundation, National Science Foundation, Perception, Action & Cognition, 2021, submitted, August 3, 2020.

Consequences of visual uncertainty in visual perception and action, \$903,595 direct + indirect costs, PI, National Institutes of Health/National Eye Institute, EY019889, 2011-2015.

Decision-theoretic approaches to understanding free movement in 3D space, \$50,000 direct + indirect costs, Consultant, Niko Troje PI. VISTA Program, York University, Toronto, CA. 2020-2021.

Surface color and material perception in dynamic 3D scenes, \$324,060 direct + indirect costs, PI, National Science Foundation, NSF1059166, 2011-2014.

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.

## PROFESSIONAL SERVICE

Associate Editor, *Psychological Review*, 2015 - 2020

Associate Editor, *PLoS Computational Biology*, 2010 - 2014

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

Editorial Board, *Journal of Vision*, January, 2005 - 2017

Editorial Board, *Psychological Science*, Jan 2007 - Dec 2008, Jan 2011 - 2012

Consulting Editor, *Psychological Review*, 2011 - 2014

Scientific Consultative Group, National Gallery, London, 2011 -

VISTA Affiliate, York University, Toronto, Canada

Program Committee, ISMB/ECCB, 2011.

Program Committee, Cognitive Science 2010 - 2012, 2016, 2018-2020.

Program Committee, CoSyNe, 2011.

Program Committee, Vision Sciences Society, 2010 - 2020.

Program Committee, European Conference on Visual Perception, 2013.

others

## TEACHING EXPERIENCE

### *Graduate*

Math Tools for Cognitive Science and

Neuroscience

Math Tools 2: Simulation and Data Analysis

Math Tools 3: Linear Systems

Neuroeconomics & Decision Making

### *Undergraduate*

Introductory Statistics

Perception

Decision Making

## BOOKS

2. Knoblauch, K. & Maloney, L. T. (2012), *Modeling Psychophysical Data in R*. New York: Springer.
1. Landy, M. S., Maloney, L. T., and Pavel, M. [Eds] (1996), *Exploratory Vision: The Active Eye*. New York: Springer-Verlag.

## REFEREED JOURNAL ARTICLES

*Authors in italics were pre- or post-doctoral students working with me on the research reported.*

120. Dal Martello, M. F., Pietralla, D., Ota, K. & Maloney, L. T. (2020), Pattern in noise: Detecting Markov structure in binary sequences perturbed by noise. *In preparation*.
119. Ota, K. & Maloney, L. T. (2020), Human failure to combine probabilities correctly in a two-stage task. *In preparation*.
118. Ota, K., Wi, E., Dekker, T. Maloney, L. T. (2020), Human performance in a cumulative gambling task with proportional gambles. *In preparation*.
117. Ota, K. Wu, Q., Mamassian, P. & Maloney, L. T. (2020), Visual estimation with non-Gaussian distributions. *In preparation*.
116. Pedersini, R., Morvan, C., Horowitz, T. S., Maloney, L. T. & Wolfe, J. M. (2020), Search must have a stop: Stopping rules in abstract search. *To be submitted, August, 2020*.
115. Juni, M. Z., Bercovitch, D., Gureckis, T. M. & Maloney, L. T. (2020), Trading off probability and reward in single-peaked preference tasks. *To be submitted, August, 2020*.
114. Ota, K. & Maloney, L. T. (2020), Testing normative use of probability density information: accuracy, additivity, sufficiency. *To be submitted, August, 2020*.
113. Dal Martello, M. F. & Maloney, L. T. (2020), Testing additivity of kinship information in complementary facial regions. *To be submitted, August, 2020*.
112. Grabenhorst, M., Michalareas, G., Maloney, L. T. & Poeppel, D. (2020), Two uncertainty parameters independently modulate temporal expectancy, *eLife, under review, June 29, 2020*.
111. Zhang, H., Ren, X. J. & Maloney, L. T. (2020), The bounded rationality of probability distortion. *Proceedings of the National Academy of Sciences, USA, in press, July 13, 2020*.
110. Maloney, L. T. & Knoblauch, K. (2020), Measuring color appearance. *Annual Review of Vision Science, 6:13, 1-19*. <https://doi.org/10.1146/annurev-vission-030320-041152>.
109. Grabenhorst, M., Michalareas, G., Maloney, L. T. & Poeppel, D. (2019), The anticipation of events in time, *Nature Communications, 10:5802*, <https://doi.org/10.1038/s41467-019-13849-0>.

108. Ota, K., Shinya, M., Maloney, L. T. & Kudo, K. (2019), Sub-optimality in motor planning is not improved by explicit observation of motor uncertainty. *Scientific Reports*, 9:14850, <https://doi.org/10.1038/s41598-019-50901-x>.
107. Jones, P. R., Landin, L., McLean, A., Juni, M. Z., Maloney, L. T., Nardini, M. & Dekker, T. M. (2019), Efficient visual information sampling develops late in childhood. *Journal of Experimental Psychology: General*, 148(7), 1138-1152.
106. Glanzer, M., Hilford, A. H., Kim, K. & Maloney, L. T. (2019), Generality of likelihood ratio decisions, *Cognition*, Oct 191:103931, 1-15.
105. Hilford, A., Glanzer, M., Kim, K. & Maloney, L. T. (2019), One mirror effect; The regularities of recognition memory. *Memory & Cognition*, 47:266-278.
104. Juni, M. Z., Gureckis, T. M. & Maloney, L. T. (2016), Information sampling behavior with explicit sampling costs. *Decision*, Jul;3(3):147-168.
103. Dal Martello, M. F., DeBruine, L. M. & Maloney, L. T. (2015), Kin recognition not affected by facial inversion. *Journal of Vision*, 15(5), 1-11.
102. Wu, S.-W., Delgado, M. & Maloney, L. T. (2015), The neural correlates of perceptual decision under risk. *Frontiers in Neuroscience*, 9(314), 1-13.
101. Zhang, H., Pailly, J. T. & Maloney, L. T. (2015), Decision from models: generalizing probability information to novel tasks. *Decision*, 2(1). 39-53.
100. Zhang, H., Daw, N. D. & Maloney, L. T. (2015), Human representation of visuo-motor uncertainty as mixtures of orthogonal basis distributions. *Nature Neuroscience*, DOI: 10.1038/nn.4055.
99. Ting, C.-C., Yu, C.-C., Maloney, L. T. & Wu, S.-W. (2015), Neural mechanisms for integrating prior knowledge and likelihood in reward-based inferences: The neural bases of judgment under uncertainty. *Journal of Neuroscience*, 35(4): 1792-1805.
98. Hilford, A., Maloney, L. T., Glanzer, M. & Kim, K. (2015), Three regularities of recognition memory: The role of bias. *Psychonomic Bulletin & Review*, DOI: 10.3758/s13423-015-0829-0.
97. Zhang, H. & Kulsa, M. K. C. & Maloney, L. T. (2015), Acquisition, representation and transfer of models of visuo-motor error. *Journal of Vision*, 15(8):6, 1-15.
96. Fulvio, J. M., Maloney, L. T. & Schrater, P. R. (2015), Revealing individual differences in strategy selection through visual motion extrapolation, *Cognitive Neuroscience*, <http://dx.doi.org/10.1080/17588928.2014.1003181>, 1-11.
95. Fleming, S. Maloney, L. T. & Daw, N. D. (2013), The irrationality of categorical perception. *Journal of Neuroscience*, 33(49), 19060-19070.
94. Zhang, H., Daw, N. & Maloney, L. T. (2013), Testing whether humans have an accurate model of their own motor uncertainty in a speeded reaching task. *PLoS Computational Biology*, 9(5):e1003080, 1-11.
93. Gerhard, H. E. & Maloney L. T. (2013) Inferred perception of light sources in 3D is color-blind, *i-Perception*, 4(2), 98-100.

92. Glaser, C. Trommershäuser, J., Mamassian, P. & Maloney, L. T. (2012), Comparison of the distortion of probability information in decision under risk and in an equivalent visual task. *Psychological Science*, 23(4), 419-426.
91. Warren, P. A., Graf, E. W., Champion, R. & Maloney, L. T. (2012), Extrapolation under risk: human observers estimate and compensate for exogeneous uncertainty. *Proceedings of the Royal Society, Series B*, 279(1736), 2171-2179.
90. Zhang, H., Morvan, C., Etezzad-Heydari, L.-A., Maloney, L. T. (2012), Very slow search and reach: eye-hand coordination in finding and touching a target among distractors. *PLoS Computational Biology*, 8(10), e1002718, 1-12.
89. Hudson, T. E., Wolfe, U. & Maloney, L. T. (2012), Speeded reaching movements around invisible obstacles. *PLoS Computational Biology*, 8(9), e1002676, 1-9.
88. Juni, M., Gureckis, T. M. & Maloney, L. T. (2012), Effective integration of serially presented stochastic cues. *Journal of Vision*, 12(8):12, 1-16.
87. Morvan, C. & Maloney, L. T. (2012), Human visual search does not maximize the post-saccadic probability of identifying targets. *PLoS Computational Biology*, 8(2), e1002342, 1-11.
86. Charrier, C., Knoblauch, K., Maloney, L. T., Bovik, A. C. & Morthy, A. (2012), Optimizing multi-scale SSIM via MLDS. *IEEE Transactions on Image Processing*, 21 (12), 4682-4694.
85. Zhang, H. & Maloney, L.T. (2012), Ubiquitous log odds: a common representation for probability and frequency distortion in perception, action and cognition. *Frontiers in Neuroscience*, 6(1), 1-14.
84. 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*, 31, 8822-8831.
83. Fleming, R. W., Jäkel, F., Maloney, L. T. (2011) Visual perception of thick transparent materials. *Psychological Science*, 22(6), 812-820.
82. Brainard, D. H. & Maloney, L. T. (2011), Surface color perception and equivalent illumination models. *Journal of Vision*, 11(5):1, 1–18.
81. 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*, 210(2), 195-206
80. Zhang, H., Maddula, S. & Maloney, L.T. (2010), Planning routes across economic terrains: maximizing utility, following heuristics. *Frontiers in Psychology*, 1, 1-10.
79. Juni, M. Z., Singh, M. & Maloney, L. T. (2010), Robust visual estimation as source separation. *Journal of Vision*, 10(14):2, 1-20.
78. 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.
77. Maloney, L. T. & Zhang, H. (2010), Decision-theoretic models of visual perception and action. *Vision Research*, 50, 2362-2374.

76. Doerschner, K., Maloney, L. T. & Boyaci, H. (2010), Perceived glossiness in high dynamic range scenes. *Journal of Vision*, 10(9):11, 1-11.
75. 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.
74. 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.
73. 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.
72. 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.
71. 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.
70. 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.
69. 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.
68. 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.
67. 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.
66. Glanzer, M., Hilford, A. & Maloney, L. T. (2009), Likelihood ratio decisions in memory: Three implications. *Psychonomic Bulletin & Review*, 16(3), 431-455.
65. 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.
64. Maloney, L. T. & Mamassian, P. (2009), Bayesian decision theory as a model of visual perception: Testing Bayesian transfer. *Visual Neuroscience*, 26, 147-155.
63. 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.
62. 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.
61. 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.
60. Ho, Y.-H., Landy, M. S. & Maloney, L. T. (2008), Conjoint measurement of gloss and surface texture. *Psychological Science*, 19(2), 196-204.

59. 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.
  58. Yeshurun, Y., Carrasco, M. & Maloney, L. T. (2008), Bias and sensitivity in two-interval forced-choice procedures, *Vision Research*, 48, 1837-1851.
  57. 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.
  56. 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.
  55. 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.
  54. Knoblauch, K. & Maloney, L. T. (2008), MLDS: Maximum likelihood difference scaling in R. *Journal of Statistical Software*, 25(2), 1-26.
  53. Logvinenko, A., Petrini, K. & Maloney, L. T. (2008), A scaling analysis of the snake lightness illusion. *Perception & Psychophysics*, 70(5), 828-840.
  52. Hudson, T. E., Maloney, L. T. & Landy, M. S. (2007), Movement planning with probabilistic target information. *Journal of Neurophysiology*, 98, 3034-3046.
  51. 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.
  50. 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.
  49. 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.
  48. Rhodes, G., Maloney, L. T., Turner, J. & Ewing, L. (2007), Adaptive face coding and discrimination around the average face, *Vision Research*, 47, 974-989.
  47. Ho, Y.-X., Maloney, L. T. & Landy, M. S. (2007), The effect of viewpoint on perceived visual roughness, *Journal of Vision*, 7, 1-16.
  46. Trommershäuser, J., Landy, M. S. & Maloney, L. T. (2006), Humans rapidly estimate expected gain in movement planning. *Psychological Science*, 17, 981-988.
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Chater, N. K. (Ed) (2009). *Judgement and Decision Making, Vol. 2: Individual Decision Making*. SAGE Publications Ltd.
45. Dal Martello, M. F. & Maloney, L. T. (2006), Where are kin recognition signals in the human face? *Journal of Vision*, 6, 1356-1366.
  44. 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.



43. Schultz, S., Doerschner, K., & Maloney, L. T. (2006), Color constancy and hue scaling. *Journal of Vision*, 6, 1102-1116.
42. Boyaci, H., Doerschner, K., Snyder, J. L. & Maloney, L. T. (2006), Surface color perception in three-dimensional scenes. *Visual Neuroscience*, 23, 311-321.
41. Maloney, L. T. & Dal Martello, M. F. (2006), Kin recognition and the perceived facial similarity of children, *Journal of Vision*, 6, 1047-1056.
40. Fulvio, J. M., Singh, M. & Maloney, L. T. (2006), Combining achromatic and chromatic cues to transparency, *Journal of Vision*, 6, 760-776.
39. 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.
38. Ho, Y.-X., Landy, M. S. & Maloney, L. T. (2006), How direction of illumination affects perceived visual roughness, *Journal of Vision*, 6, 634-648.
37. 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.
36. Boyaci, H., Doerschner, K., & Maloney, L. T. (2006), Cues to an equivalent lighting model, *Journal of Vision*, 6, 106-118.
35. 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.
34. 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.
33. Graf, E. W., Warren, P. A. & Maloney, L. T. (2005), Explicit estimation of visual uncertainty in human motion processing. *Vision Research*, 45, 3050-3059.
32. 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.
31. 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.
30. 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.
29. Warren, P.A. Maloney, L. T. & Landy, M. S. (2004), Interpolating sampled contours in 3D: Perturbation analyses. *Vision Research*, 44, 815-832.
28. 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.
27. Trommershäuser, J., Maloney, L. T. & Landy, M. S. (2003), The consistency of bisection judgments in visual grasp space. *Journal of Vision*, 3, 795-807.

26. Oruç, I., Maloney, L. T., & Landy, M. S. (2003), Weighted linear cue combination with possibly correlated error, *Vision Research*, 43, 2451-2468.
25. 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.
24. Maloney, L. T. & Yang, J. N. (2003), Maximum likelihood difference scaling. *Journal of Vision*, 3, 573-585.
23. 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.
22. Trommershäuser, J., Maloney, L. T. & Landy, M. S. (2003), Statistical decision theory and tradeoffs in motor response. *Spatial Vision*, 16, 255-275.
21. Maloney, L. T. (2002), Illuminant estimation as cue combination. *Journal of Vision*, 2, 493-504.
20. 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.
19. Yang, J. N. & Maloney, L. T. (2001), Illuminant cues in surface color perception: Tests of three candidate cues. *Vision Research*, 41, 2581-2600.
18. Bonnardel, V. & Maloney, L. T. (2000), Daylight, biochrome surfaces, and human chromatic response in the Fourier domain. *Journal of the Optical Society of America*, 17, 677-687.
17. Knoblauch, K., & Maloney, L. T. (1996), Testing the indeterminacy of color mechanisms from color discrimination data. *Vision Research*, 36, 295-306.
16. Poirson, A. B. & Maloney, L. T. (1996), A video-input device that displays high-luminance, high-resolution color images. *Vision Research*, 36, 2575-2578.
15. Landy, M. S., Maloney, L. T., Johnston, E. B., & Young, M. (1995), Measurement and modeling of depth cue combination: In defense of weak fusion. *Vision Research*, 35, 389-412.
14. Wuerger, S. M., Maloney, L. T., & Krauskopf, J. (1995), Proximity judgments in color space: Tests of a Euclidean color geometry. *Vision Research*, 35, 827-835.
13. Young, M. J., Landy, M. S. & Maloney, L. T. (1993), A perturbation analysis of depth perception from combinations of texture and motion cues. *Vision Research*, 33, 2685-2696.
12. Chan, A. S., Butters, N. Paulsen, J. S., Salmon, D. P., Swenson, M. R. Maloney, L. T. (1993), An assessment of the semantic network in patients with Alzheimer's-disease. *Journal of Cognitive Neuroscience*, 5, 254-261.
11. Maloney, L. T., and Thomas, E. A. C. (1991), Distributional assumptions and observed conservatism in the theory of signal detectability. *Journal of Mathematical Psychology*, 35, 443-470.
10. Maloney, L. T. (1990), The slope of the psychometric function at different wavelengths. *Vision Research*, 30, 129-136.
9. Maloney, L. T. (1990), Confidence intervals for the parameters of psychometric functions. *Perception & Psychophysics*, 47, 127-134.

8. Maloney, L. T., and Ahumada, A. J. (1989), Learning by assertion: A method for calibrating a simple visual system. *Neural Computation*, 1, 387-395.
7. Maloney, L. T. & Koh, K. (1988), A method for calibrating a visual display to high accuracy. *Behavior Research Methods, Instruments & Computers*, 20, 372-389.
6. Maloney, L. T. & Gelman, S. A. (1987), Measuring the influence of context: the interpretation of dimensional adjectives. *Language & Cognitive Processes*, 2, 205-215.
5. Maloney, L. T. (1986), Evaluation of linear models of surface spectral reflectance with small numbers of parameters. *Journal of the Optical Society of America A*, 3, 1673-1683.  
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Healy, G., Shafer, S., & Wolfe, L., [Eds], (1992), *Physics-Based Vision: Principles and Practice*. Jones & Bartlett.
4. Maloney, L. T., and Wandell, B. A. (1986), Color constancy: A computational method for recovering surface spectral reflectance. *Journal of the Optical Society of America A*, 3, 29-33.  
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## PROCEEDINGS

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

16. Akrenius, M., Maloney, L. T. & Nelson, J. D. (2020), From ambiguity aversion to information gain: Can entropy reduction serve as a unified construct in models of adaptive behavior and decision making?: Symposium 2248. *Proceedings of the 42nd Annual Conference of the Cognitive Science Society.*
15. Schüür, F., Tam, B. P., & Maloney, L. T. (2013), Learning patterns in noise: environmental statistics explain the sequential effect. In Knauff, M., Pauen, M., Sebanz, N. & Wachsmuth, I. (Eds.) *Proceedings of the 35th Annual Conference of the Cognitive Science Society.* Austin, TX: Cognitive Science Society.
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3. Maloney, L. T. (1990), Photoreceptor spectral sensitivities and color correction. *Proceedings of the SPIE 1250: Perceiving, Measuring and Using Color*, DOI: 10.1117/12.19704.
2. Maloney, L. T., & Landy, M. S. (1989). A statistical framework for robust fusion of depth information. *Proceedings of the SPIE: Visual Communications and Image Processing IV*, 1199, 1154-1163.
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## BOOK CHAPTERS & OPINION PIECES

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

31. Verghese, P., Maloney, L. T. & Landy, M. S. (2015), The efficiency of vision and action. *Vision Research*, 113 (B), 113-115.
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## RECENT INVITED LECTURES

- Maloney, L. T. (2021), Statistical models of perception and action: what value is good for. *European Summer School 2021*, Rauschholzhausen, Germany, September, 2021.
- Maloney, L. T. (2020), Keynote: Surface colour perception and light field estimation: dual problems, London Imaging Meeting, London, UK, Sept 30 - Oct 1, 2020 VIRTUAL.
- Maloney, L. T. & Zhang, H. (2020), The bounded rationality of probability distortion, Workshop on information theoretic models in psychology and neuroscience, CNS\*2020 Conference, Organization for Computational Neurosciences, July 18-22, 2020 VIRTUAL.
- Maloney, L. T. (2020), Imperfectly optimal Bayesians, First internal workshop on computational and cognitive neuroscience, NYU Shanghai, Shanghai, PRC, July 2-4, 2020. POSTPONED.
- Maloney, L. T. (2019), Limits on human representation of uncertainty. *Max Planck Lecture*, Max Planck Institute of Biological Cybernetics, Tübingen, Germany, November 28, 2019.
- Maloney, L. T. (2019), Lecture series: Taking Bayes seriously: (1) Testing Bayesian models of action and perception, Nov 4, 2019, (2) Human representation of uncertainty, Nov 12, 2019, (3) The bounded rationality of probability distortion, Nov 19, 2019. Laboratoire des Systèmes Perceptifs, Département des Etudes Cognitives, Ecole Normale Supérieure, Paris, France,
- Maloney, L. T. (2019), Representing uncertainty. *Workshop: Dynamics in Vision and Touch*. Cappadocia, Turkey, November 5-8, 2019.
- Maloney, L. T. (2019), Perception, action and the human representation of uncertainty. Laboratoire des Systèmes Perceptifs, Ecole Normale Supérieure, Paris, France, October 22, 2019.
- Maloney, L. T. (2019), Decision-theoretic models of perception, action and cognition. Institut des Etudes Avancées of Paris, Paris, France, October 1, 2019.
- Maloney, L. T. (2019), Scaling appearance: MLDS and MLCM, Symposium on scaling, European Conference on Visual Perception, Leuven, Belgium, August 27, 2015. [delivered by proxy]
- Maloney, L. T. (2019). The bounded rationality of probability distortion. "*Perception and probability*" Symposium at the annual conference of the Southern Society of Philosophy and Psychology, Cincinnati, OH, March 7-9, 2019.
- Maloney, L. T. (2018), Perception, action and uncertainty. *European Summer School 2018*, Rauschholzhausen, Germany, September 2-14, 2018.
- Maloney, L. T. (2018), The structure of uncertainty. *Perceptual structure. Festschrift for Michael Kubovy*, European Conference on Visual Perception, Trieste, Italy, August 26-30, 2018.
- Maloney, L. T. (2018), The Bayesian brain. *2018 Summer School in Computational Sensory-Motor Neuroscience (CoSMo 2108)*, University of Minnesota, Minneapolis, Minnesota, August 6-9, 2018.
- Maloney, L. T. (2018), The bounded rationality of probability distortion: the bounded-log-odds model. *Workshop on The Probabilistic Brain*, Durham University, Durham, UK, March 23-24, 2018.

Maloney, L. T. (2017), Statistical modeling of perception and action. *Norwegian Summer Institute Mind and Language, Cognition and Computation*, 2017, Oslo, Norway, August 1-11, 2017.

Maloney, L. T. (2016), Statistical decision theory, perception and action. *European Summer School 2016*, Rauschholzhausen, Germany, September 4-16, 2016.

Maloney, L. T. (2015), Statistical decision theory, perception and action. *Computational Vision Summer School 2015*, Schwarzwald, Germany, July 27–August 5, 2015.

Maloney, L. T. (2015), Decision in an ongoing world. Meeting of the DFG Research Group “*Kardinale Mechanismen der Wahrnehmung: Prädiktion, Bewertung, Kategorisierung*”, Schloss Rauschholzhausen, Germany, July 20–24, 2015.

Maloney, L. T. (2015), Symposium on “Colour Constancy”, European Conference on Visual Perception, Liverpool, UK, August 23-27, 2015.

## RECENT CONFERENCE ABSTRACTS

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

Maloney, L. T. (2020), Information and value: For \$5 I'll tell you what the subtitle is. Symposium 2248: Akrenius et al (2020),. *Proceedings of the 42nd Annual Conference of the Cognitive Science Society*.

Ota, K., Wi, Q., Mamassian, P. & Maloney, L. T. (2020), Visual cue estimation with non-Gaussian distributions. Paper submitted to the Annual Meeting of the Vision Sciences Society, May 15-20, St. Petersburg, Florida, Abstract: *Journal of Vision*, *accepted. Conference online*.

Maloney, L. T., Ota, K., Kim, S. (2020), Testing Bayesian properties: incorrect estimates of conjunctive probabilities in a two-stage visuo-motor task. Paper submitted to the Annual Meeting of the Vision Sciences Society, May 15-20, St. Petersburg, Florida, Abstract: *Journal of Vision*, *accepted. CANCELLED*.

Ota, K., Kim, J. & Maloney, L. T. (2019), Asymmetric weighting of probability from different sources in a two-stage lottery task. *Annual Meeting of the Society for Judgment and Decision Making*, Montréal, Canada, November 16-18, 2019.

Maloney, L. T., *Juni, M. Z., Bercovitch, D. & Gureckis, T. M.* (2019), Trading off probability and reward in single-peaked preference tasks. *Annual Meeting of the Society for Judgment and Decision Making*, Montréal, Canada, November 16-18, 2019.

Maloney, L. T. & Zhang, H. (2019), The bounded rationality of probability distortion. *Psychonomics*, Montréal, Canada, November 15-17, 2019.

*Ota, K. & Maloney, L. T.* (2019), Human performance in a Bayesian decision task fails sufficiency. *Psychonomics*, Montréal, Canada, November 15-17, 2019.

*Wi, E., Ota, K., Dekker, T. M., & Maloney, L. T.* (2019), Allocation across time. *Psychonomics*, Montréal, Canada, November 15-17, 2019.

Maloney, L. T. & Zhang, H. (2019), The bounded rationality of probability distortion. *Annual Meeting of the Society of Neuroeconomics*, Dublin, Ireland, October 20 -23, 2019.

*Ota, K., Phillips, J. & Maloney, L. T.* (2019), Testing accuracy, additivity and sufficiency of human use of probability density information in a visuo-cognitive task. Annual Meeting of the Cognitive Science Society, 2328, Montréal, Canada, July 24 - July 27, 2019.

Maloney, L. T., Kim, S. & Ota K.(2019) Testing human use of probability in a visuo-motor conjunction task, Annual Meeting of the Cognitive Science Society, 2328, Montréal, Canada, July 24 - July 27, 2019.

Maloney, L. T., *Juni, M. Z., Bercovitch, D. & Gureckis, T. M.* (2019), Trading off probability and reward in one-shot lottery tasks. Paper submitted to the Annual Meeting of the Vision Sciences Society, May 17-22, Naples, Florida, Abstract: *Journal of Vision*, *accepted*.

*Ota, K., Phillips, J. & Maloney, L. T.* (2019), Testing accuracy, additivity and sufficiency of human use of probability density information in a visuo-cognitive task. Paper submitted to the Annual Meeting of the Vision Sciences Society, May 17-22, Naples, Florida, Abstract: *Journal of Vision*, *accepted*.

- Ota, K., Phillips, J. & Maloney, L. T. (2018), Probability estimation and decision with limited knowledge of uncertainty. Paper presented at the Annual Meeting of the Society for Neuroscience, November 3-7, San Diego, CA.
- Maloney, L. T. & Wang, S. (2017), Bayesian updating. Paper presented at the Annual Meeting of the Vision Sciences Society, May 18-23, Naples, Florida, Abstract: *Journal of Vision*, *accepted*.
- Maloney, L. T. & Dal Martello, M. F. (2015), Testing additivity of kinship information in complementary facial regions. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, *accepted*.
- Zhang, H., Kusla, M. & Maloney, L. T. (2015), Acquisition and transfer of models of visuo-motor uncertainty in a throwing task. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, *accepted*.
- Tee, J. & Maloney, L. T. (2015), Separating noise from sub-optimal inference in choice behavior variability. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, *submitted*.
- Nardini, M., Jones, P., Juni, M., Maloney, L. T. & Dekker, T. (2015), Learning efficient perceptual sampling. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, *accepted*.
- Jellinek, S., Maloney, L. T. & Fiser, J. (2015), Evidence of probabilistic representation in assessing visual summary statistics. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, *accepted*.
- Hofer, M., Maloney, L. T. & Fiser, J. (2015), Detecting structure in visual sequences. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, Florida, Abstract: *Journal of Vision*, *accepted*.

## RECENT COLLOQUIA:

Department of Psychology  
University of Giessen  
Giessen, Deutschland  
May 13, 2020 [On line]

Centre de Recherches Interdisciplinaires  
Paris, France  
January 23, 2020

Department of Psychology  
University of Aberdeen  
Aberdeen, Scotland  
November 21, 2019

RUBIC (Rutgers University Brain Imaging Center)  
Rutgers University, Newark, NJ  
April 5, 2017

Department of Economics  
University of Zürich  
Zürich, Switzerland  
March 10, 2016

Center for Cognitive Science  
Department of Psychology  
Rutgers University, New Brunswick, NJ  
February 2, 2015

Laboratoire des Systèmes Perceptifs  
Ecole Normale Supérieure  
Paris, France  
November 28, 2014

Department of Psychology  
University of Manchester  
Manchester England, UK  
November 26, 2014

Gatsby Institute  
University College London  
London, England, UK  
November 26, 2014

Institute for Brain, Cognition & Behaviour (IR3C)  
Departament de Psicologia Bàsica  
Universitat de Barcelona  
Barcelona, Spain  
November 7, 2014

Department of Psychology  
University of Durham  
Durham, England, UK  
October 25, 2014

Department of Psychology  
University of Bristol  
Bristol, England, UK  
October 17, 2014

Cognitive Science  
Central European University  
Budapest, Hungary  
January 29, 2014