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Curriculum Vitae October 2024

Professional Experience and Service

2016 – present	Elizabeth and Sumner Hayward Professor of Social Sciences
2023 – present	Coordinator, Cognitive Science Program, Swarthmore College
2024 – present	Administrator, Special Major in Neuroscience, Swarthmore College
2020 – 2021	Administrator, Special Major in Neuroscience, Swarthmore College
2018 – 2021	Coordinator, Cognitive Science Program, Swarthmore College
2017 – 2021	President, Swarthmore College Chapter of AAUP
2015 – 2018	Associate Editor, *Attention Perception & Psychophysics*
2015 – 2017	Coordinator, Cognitive Science Program, Swarthmore College
2008 – present	Professor of Psychology, Swarthmore College
2008 – 2009	Chair, Department of Psychology, Swarthmore College
2003 – 2007	Chair, Department of Psychology, Swarthmore College
2000 – 2005	Coordinator, Cognitive Science Program, Swarthmore College
2000 – 2008	Associate Professor of Psychology, Swarthmore College
1994 – 2000	Assistant Professor of Psychology, Swarthmore College

Education

January, 1995	Ph.D. Psychology, University of Virginia
May, 1989	M.A. Developmental Psychology, University of Pennsylvania
May, 1986	B.A. Classics and Philosophy, St John's College, Annapolis MD

Grant Support

2010 - 2017	NIH AREA Grant #R15-EY021026 from the National Eye Institute *Cognitive biases in the perception of spatial orientation*
2017 - 2018	Michener Faculty Fellowship (Sabbatical Award) *Metaphor, language, and racial bias*

Areas of Current Research

Space perception (including self-motion perception) construed as an information-processing task in which coding advantages (precision) may explain known biases

Metaphor processing and interpretation, including metaphor as source of implicit bias

Visual number perception and adaptation

Perception and action

Cognitive and social factors in perception experiments

Visual attention and executive control

Peer-Reviewed Journal Articles (*indicates Swarthmore student co-author)

*Dellinger, E. G., *Becker, K. M., & Durgin, F. H. (2024). Implied occlusion and subset underestimation contribute to the weak-outnumber-strong numerosity illusion. *Journal of Vision, 24.* 14. https://doi.org/10.1167/jov.24.11.14

Durgin, F. H. (in press). Refreshing the conversation about adaptation and perceived numerosity: A reply to Yousif, Clarke and Brannon. *Cognition*

Durgin, F. H., & *Martinez, Z. (2024). Relative numerosity is constructed from size and density information: Evidence from adaptation. *Journal of Vision, 24(7)*, 4. https://doi.org/10.1167/jov.24.7.4

*Tardeh, P. U. D, *Xu, C., & Durgin, F. H. (2024). Default reference frames for angular expansion in the perception of visual direction. *Vision, 8(1)*, 7. https://doi.org/10.3390/vision8010007

*Zu, T., Chen, P., & Durgin, F. H. (2024). The ups and downs of black and white: Do sensorimotor metaphors reflect an evolved perceptual interface? *Metaphor and Symbol, 39(3),* 169-182. *http://dx.doi.org/10.1080/10926488.2024.2309977*

Durgin, F. H., & Portley, M. (2023). Is the approximate number system capacity limited? Extended display duration does not increase the limits of linear number estimation. *Journal of Experimental Psychology: Human Perception and Performance, 49(4),* 483–495. https://doi.org/10.1037/xhp0001106

Hajnal, A., & Durgin, F. H. (2023). How frequent is the spontaneous occurrence of synchronized walking in daily life? *Experimental Brain Research, 241*,469-478, https://doi.org/10.1007/s00221-022-06536-y

*Billups, S., Thelamour, B., Thibodeau, P., & Durgin, F. H. (2022). On intersectionality: Visualizing the invisibility of Black women. *Cognitive Research: Principles and Implications, 7:* 100, https://doi.org/10.1186/s41235-022-00450-1

Durgin, F. H., Aubry, E., Balisanyuka-Smith, J. J., & Yavuz, Ç. (2022). Spatial number estimation has a higher linear range than temporal number estimation; differential affordances for subdivision might help to explain why. *Journal of Vision, 22(11)*, 15, https://doi.org/10.1167/jov.22.11.15

Yan, C., Chen, Y., Zhang, Y., Kong, L., Durgin, F. H., & Li, Z. (2022). Perceptual scale expansion: A natural design for improving the precision of motor control. *Quarterly Journal of Experimental Psychology,* https://doi.org/10.1177/17470218221115075

*Portley, M., & Durgin, F. H. (2019). The second number-estimation elbow: Are visual numbers greater than 20 evaluated differently? *Attention, Perception, & Psychophysics, 81*, 1512-1521.

Durgin, F. H., & *Keezing, U. I. (2018). Differential angular expansion in perceived direction in azimuth and elevation are yoked to the presence of a perceived ground plane. *Vision, 2,* 17, https://doi.org/10.3390/vision2020017

*Keezing, U. I., & Durgin, F. H. (2018). Do explicit estimates of angular declination become ungrounded in the presence of a ground plane? *i-Perception, 9(5)*, 1-22, https://doi.org/10.1177/2041669518808536

Li, Z., & Durgin, F. H. (2018). Does perceived angular declination contribute to perceived optical slant on level ground? *Attention, Perception, & Psychophysics, 80,* 1609-1618. https://doi.org/10.3758/s13414-018-1536-5

Thibodeau, P. T., Sikos, L., & Durgin, F. H. (2018). Are subjective ratings of metaphors a red herring? The Big Two dimensions of metaphoric sentences. *Behavioral Research Methods*, *50,* 759-772. https://doi.org/10.3758/s13428-017-0903-9

Durgin, F. H. (2017). Counterpoint: Distinguishing between perception and judgment of spatial layout. *Perspectives on Psychological Science, 12*, 344-346.

Durgin, F. H., & *Gelpi, R. (2017). When do vehicles of similes become figurative? Gaze patterns show that similes and metaphors are processed differently. *Proceeding of the 39th Annual Meeting of the Cognitive Science Society* (pp. 1967-1972).

Li, Z., & Durgin, F. H. (2017). A large-scale horizontal-vertical illusion produced with small objects separated in depth. *Journal of Experimental Psychology: Human Perception and Performance*. *43,* 1473-1479, https://doi.org/10.1037/xhp0000426

Dean, A. M., *Oh, J., *Thomson, C., Norris, C. J., & Durgin, F. H. (2016). Do individual differences and aging effects in the estimation of geographical slant reflect cognitive or perceptual effects? *i-Perception, 7(4)*, 1-18. https://doi.org/ 10.1177/2041669516658665 open access

*Klein, B. J., Li, Z., & Durgin, F. H. (2016). Large perceptual distortions of locomotor action space occur in ground-based coordinates: Angular expansion and the large-scale horizontal-vertical illusion. *Journal of Experimental Psychology: Human Perception and Performance, 42*, 581-593.

Li, Z., & Durgin, F. H. (2016). Perceived azimuth direction is exaggerated: Converging evidence from explicit and implicit measures. *Journal of Vision*, *16*(1):4, 1-19. open access

Shaffer, D. M., McManama, E., & Durgin, F. H. (2015). Manual anchoring biases in slant estimation affect matches even for near surfaces. *Psychonomic Bulletin & Review, 22*, 1665-1670.

*Williams, M. J. C., & Durgin, F. H. (2015). Direct manipulation of perceived angular declination affects perceived size and distance: A replication and extension of Wallach and O'Leary (1982). *Attention, Perception & Psychophysics, 77,* 1371-1378. open access

*Coleman, A., & Durgin, F. H. (2014). Egocentric reference frame bias in the palmar haptic perception of surface orientation. *Psychonomic Bulletin & Review 21*, 955-960.

Durgin, F. H. (2014). Angular scale expansion theory and the misperception of egocentric distance in locomotor space. *Psychology & Neuroscience*, *7*, 253-260. open access

Shaffer, D. M., McManama, E., Swank, C., *Williams, M., & Durgin, F. H. (2014). Anchoring in action: Manual estimates of slant are powerfully biased toward initial hand orientation and are correlated with verbal report. *Journal of Experimental Psychology: Human Perception and Performance, 40, 1203-1212.*

Durgin, F. H. (2013). What do hands know about hills? Interpreting Taylor-Covill and Eves (2013) in context. *Acta Psychologica,144*, 451-458. open access

Li, Z. & Durgin, F. H. (2013). Depth compression based on mis-scaling of binocular disparity may contribute to angular expansion in perceived optical slant. *Journal of Vision, 13(12):3,* 1–18. open access

Li, Z., *Sun, E.,* Strawser, C. J., *Spiegel, A., *Klein, B., & Durgin, F. H. (2013). On the anisotropy of perceived ground extents and the interpretation of walked distance as a measure of perception. *Journal of Experimental Psychology: Human Perception and Performance, 39*, 477-493.

Shaffer, D. M., McManama, E., Swank, C., & Durgin, F. H. (2013). Sugar and space? Not the case: Effects of low blood glucose on slant estimation are mediated by beliefs. *i-Perception, 4*, 147-155. open access

*Stigliani, A., Li, Z., & Durgin, F. H. (2013). Humans have precise knowledge of familiar geographical slants. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 39*, 1966-1973.

Thibodeau, P., Peebles, M. M., Grodner, D. J., & Durgin, F. H. (2013). The wished-for always wins until the winner was inevitable all along: Motivated reasoning and belief bias regulate emotion during elections. *Political Psychology*. https://doi.org/ 10.1111/pops.12100

*Chettih, S., Durgin, F. H., & Grodner, D. (2012). Mixing metaphors in the cerebral hemispheres: What happens when careers collide? *Journal of Experimental Psychology: Learning Memory and Cognition*, *38*, 295-311.

Durgin, F. H., *Klein, B., *Speigel, A., *Strawser, C. J., & *Williams, M. (2012). The social psychology of perception experiments: Hills, backpacks, glucose and the problem of generalizability. *Journal of Experimental Psychology: Human Perception and Performance*, *38*, 1582-1595.

Durgin, F. H., *Leonard-Solis, K., *Masters, O., *Schmelz, B., & Li, Z. (2012). Expert performance by athletes in the verbal estimation of spatial extents does not alter their perceptual metric of space. *i-Perception*, 3, 357-367. open access

Li, Z., & Durgin, F. H. (2012). A comparison of two theories of perceived distance on the ground plane: The angular expansion hypothesis and the intrinsic bias hypothesis. *i-Perception, 3*, 368-383. open access

Li, Z., & Durgin, F. H. (2012). Manual matching of perceived surface orientation is affected by arm posture: Evidence of calibration between proprioception and visual experience in near space *Experimental Brain Research*, *216*, 299-309.

Durgin, F. H., *DeWald, D., *Lechich, S., Li, Z., & *Ontiveros, Z. (2011). Action and motivation: Measuring perception or strategies? *Psychonomic Bulletin & R*eview, 18, 1077-1082.

Durgin, F. H. Hajnal, A., Li, Z., *Tonge, N., & *Stigliani, A. (2011). An imputed dissociation might be an artifact: Further evidence for the generalizability of the observations of Durgin et al. 2010. *Acta Psychologica, 138*, 281-284.

Durgin, F. H., & Li, Z. (2011). Perceptual scale expansion: An efficient angular coding strategy for locomotor space. *Attention, Perception & Psychophysics, 73*, 1856-1870.

Durgin, F. H., & Li, Z. (2011). The perception of 2D orientation is categorically biased. *Journal of Vision, 11(8):13*, 1-10. open access

Hajnal, A., *Abdul-Malak, D. T., & Durgin, F. H. (2011). The perceptual experience of slope by foot and by finger. *Journal of Experimental Psychology: Human Perception and Performance*, *37*, 709-719.

Li, Z., & Durgin, F. H. (2011). Design, data and theory regarding a digital hand inclinometer: A portable device for studying slant perception. *Behavior Research Methods, 43*, 363-371.

Li, Z., *Phillips, J., & Durgin, F. H. (2011). The underestimation of egocentric distance: Evidence from frontal matching tasks. *Attention, Perception & Psychophysics, 73*, 2205-2217.

Saunders, J. A. & Durgin, F. H. (2011). Adaptation to conflicting visual and physical heading directions during walking. *Journal of Vision, 11(3):15*, 1-10. open access

*Thibodeau, P., & Durgin, F. H. (2011). Metaphor aptness and conventionality: A processing fluency account. *Metaphor and Symbol*, *26*, 206-226.

Durgin, F. H. Hajnal, A., Li, Z., *Tonge, N., & *Stigliani, A. (2010). Palm boards are not action measures: An alternative to the two-systems theory of geographical slant perception. *Acta Psychologica, 134*, 182-197.

Durgin, F. H., Li, Z., & Hajnal, A. (2010). Slant perception in near space is categorically biased: Evidence for a vertical tendency. *Attention, Perception & Psychophysics, 72*, 1875–1889.

Durgin, F. H., & Li, Z. (2010). Controlled interaction: Strategies for using virtual reality to study perception. *Behavior Research Methods, 42,* 414-420.

Li, Z. & Durgin, F. H. (2010). Perceived slant of binocularly viewed large-scale surfaces: A common model from explicit and implicit measures. *Journal of Vision*, *10(14):13*, 1-16. open access

Durgin, F. H. (2009). When walking makes perception better. *Current Directions in Psychological Science, 18,* 43-47.

Durgin, F. H., Baird, J. A., *Greenburg, M., *Russell, R., *Shaughnessy, K., & *Waymouth, S. (2009). Who is being deceived? The experimental demands of wearing a backpack. *Psychonomic Bulletin & Review*, *16*, 964-969.

Grodner, D., *Pietsch, C., & Durgin, F. H. (2009). The use of categorical features in adult spatial reorientation. *Proceedings of the 2009 Meeting of the Cognitive Science Society* (pp 280-285). Amsterdam: The Netherlands

Li, Z., & Durgin, F. H. (2009). Downhill slopes look shallower from the edge. *Journal of Vision*, 9(*11):*6, 1-15. open access

Durgin, F. H., *Akagi, M., Gallistel, C. R., & Haiken, W. (2008). The precision of locomotor odometry in humans. *Experimental Brain Research, 193*, 429-436.

Durgin, F. H. (2008). Texture density adaptation and visual number revisited. *Current Biology*, *18*, R855-R856.

Durgin, F. H., *Doyle, E., & *Egan. L (2008). Upper left gaze bias reveals competing search strategies in a reverse Stroop task. *Acta Psychologica. 127*, 428-448.

*Thibodeau, P., & Durgin, F. H. (2008). Productive figurative communication: Conventional metaphors facilitate the comprehension of related novel metaphors. *Journal of Memory and Language*, *58*, 521-540.

Durgin, F. H., *Evans, L., *Dunphy, N., *Klostermann, S., & *Simmons, K. (2007). Rubber hands feel the touch of light. *Psychological Science*, *18*, 152-157.

Durgin, F. H., & *Gigone, K. (2007). Enhanced optic flow speed discrimination while walking: Contextual tuning of visual coding. *Perception, 36*, 1465-1475.

Durgin, F. H., *Reed, C., *Tigue, C. (2007). Step frequency and perceived self-motion. *ACM: Transactions in Applied Perception*, *4*(1), 1-27.

Banton, T. A., Stefanucci, J., Durgin, F. H., Fass, A., & Proffitt, D. R. (2005). The perception of walking speed in a virtual environment. *Presence: Teleoperators and Virtual Environments*, *14*, 394-406.

Durgin, F. H., *Gigone, K., & *Scott, R. (2005). The perception of visual speed while moving. *Journal of Experimental Psychology: Human Perception and Performance*, *31*, 339-353.

Durgin, F. H., Pelah, A., *Fox, L. F., *Lewis, J., *Kane, R., & *Walley, K. A. (2005). Self-motion perception during locomotor recalibration: More than meets the eye. *Journal of Experimental Psychology: Human Perception and Performance*, *31*, 398-419.

*Messing, R. M., & Durgin, F. H. (2005) Distance perception and the visual horizon in head-mounted displays. *Transactions on Applied Perception*, *2*, 234-250.

Durgin, F. H., *Fox, L. F., & *Kim, D. H. (2003). Not letting the left leg know what the right leg is doing: Limb-specific locomotor adaptation to sensory-cue conflict. *Psychological Science*, *6*, 567-572.

Durgin, F. H. (2003). Translation and competition among internal representations in a reverse Stroop effect. *Perception & Psychophysics*, *65*, 367-378.

Durgin, F. H., & Sternberg, S. (2002). The time of consciousness and vice versa. *Consciousness and Cognition*, *11*, 284–290.

Durgin, F. H. (2002). The Tinkerbell effect: Motion perception and illusion. *Journal of Consciousness Studies*, *9*, 88-101.

Durgin, F. H. (2001). Texture contrast aftereffects are monocular; texture density aftereffects are binocular. *Vision Research, 41*, 2619-2630.

Durgin, F. H., & Hammer, J. T. (2001). Visual aftereffects of sequential perception: Dynamic adaptation to changes in texture density and contrast. *Vision Research, 41*, 2607-2617.

Durgin, F. H. (2000). The reverse Stroop effect. *Psychonomic Bulletin & Review*, **7**, 121-125.

Lachter, J., Durgin, F. H., & *Washington, T. (2000). Disappearing percepts: Evidence for retention failure in metacontrast masking. *Visual Cognition*, *7*, 269-279.

Durgin, F. H. & Pelah, A. (1999). Visuomotor adaptation without vision? *Experimental Brain Research*, *127*, 12-18.

Lachter, J., & Durgin, F. H. (1999). Metacontrast masking functions: A question of speed? *Journal of Experimental Psychology: Human Perception and Performance*, *25*, 936-947.

Durgin, F. H., & *Huk, A. C. (1997). Texture density aftereffects in the perception of artificial and natural textures. *Vision Research*, *37*, 3273-3282.

Durgin, F. H., & *Wolfe, S. E. (1997). Global precedence in visual search? Not so fast: Evidence instead for an oblique effect. *Perception, 26*, 321-332.

Durgin, F. H. (1996). Visual aftereffect of texture density contingent on color of frame. *Perception & Psychophysics*, *58*, 207-233.

Durgin, F. H. & Proffitt, D. R. (1996). Visual learning in the perception of texture: Simple and contingent aftereffects of texture density. *Spatial Vision*, *9*, 423-474.

Durgin, F. H. (1995). Texture density adaptation and the perceived numerosity and distribution of texture. *Journal of Experimental Psychology: Human Perception and Performance*, *21*, 149-169.

Durgin, F. H., Proffitt, D. R., Olson, T. J. & Reinke, K.S. (1995). Comparing depth from motion with depth from binocular disparity. *Journal of Experimental Psychology: Human Perception and Performance*, *21*, 679-699.

Durgin, F. H., Tripathy, S. P. & Levi, D. M. (1995). On the filling in of the visual blind spot: Some rules of thumb. *Perception*, *24*, 827-840.

Book Chapters, Proceedings, and Commentaries

Durgin, F. H. (2017). Multitudes are adaptable magnitudes in the estimation of number. *Behavioural and Brain Sciences, 40* (commentary).

Durgin, F. H. (2016). Oh the irony: Perceptual stability is important for action. *Behavioural and Brain Sciences, 20,* 28. (commentary on Firestone, C., & Scholl, B. J. (2015). Cognition does not affect perception: Evaluating the evidence for "top-down" effects. *Behavioral and Brain Sciences*, *20*, 1-77.).

Durgin, F. H. (2016). Magnitudes in the coding of visual multitudes: Evidence from adaptation. In A. Henik (ed.) *Continuous Issues in Numerical Cognition: How Many or How Much?* (pp. 245- 270). Elsevier.

Durgin, F. H., & Li, Z. (2016). Why do hills look so steep? In A. Shapiro and D. Todorovic (eds.), *Oxford Compendium of Visual Illusions* (Chapter 16). Oxford University Press.

Durgin, F. H., *Ruff, A. J., & *Russell, R. (2012). Constant enough: On the kinds of perceptual constancy worth having. In G. Hatfield and S. Allred (eds.), *Visual Experience: Sensation, Cognition and Constancy* (pp. 87-102). Oxford University Press.

Durgin, F. H., & Li, Z. (2012). Spatial biases and the haptic experience of surface orientation. In A. El Saddik (Ed.), *Haptics rendering and applications* (pp. 75–94). Rijeka, Croatia: InTech. https://doi.org/10.5772/26345

Durgin, F. H. (2009). Self motion perception. In B. Goldstein (Ed.) Encyclopedia of Perception.

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Durgin, F. H. (2002). An ostrich on a rock: Commentary on Christie and Barresi (2002). *Consciousness and Cognition*, *11*, 366–371.

Durgin, F. H. (2000). *Visual Adaptation*. A. E. Kazdin (Ed.), APA Encyclopedia of Psychology. Oxford University Press.

Durgin, F. H. (1999). Supporting the "Grand Illusion" of direct perception: Implicit learning in eye-movement control In S. R Hameroff, A. W. Kaszniak, and D. J. Chalmers*, Toward a Science of Consciousness III*, (pp. 179-188). Cambridge: MIT Press

Durgin, F. H. (1998). Quasimodal encounters of the third kind: The filling in of visual detail. *Behavioural and Brain Sciences* (commentary), *21*, 756-757.

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Unpublished Theses

Durgin, F. H. (1995). *Contingent aftereffects of texture density: Perceptual learning and contingency*. Unpublished doctoral dissertation, University of Virginia, Charlottesville, Virginia. Advisor: Dennis R. Proffitt

Durgin, F. H. (1989). *Young children's understanding of speed, time and distance*. Unpublished master's thesis, University of Pennsylvania, Philadelphia, Pennsylvania. Advisor: Rochel Gelman

Published Abstracts (Conference Presentations)

Durgin, F. H., & Crosby, J. G. (2023). Numerosity estimation in accumulated spatial arrays: Does anchoring limit accuracy? *Journal of Vision, 23*(9):5842. https://doi.org/10.1167/jov.23.9.5842

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*Billups, S. N., *Burchell, A., Gillham, A. E., *Smith, M., & Durgin, F. H. (2019). Time after time: Repeated failure to support the space/time claims of Casasanto and Boroditsky (2008). Journal of Vision, 19(10):163. https://doi.org/10.1167/19.10.163

Chen, P., *Himelein-Wachowiak, M., *Billups, S., & Durgin, F. H. (2019). Metaphorical use of color and racial bias: An ERP study. *Abstracts of the Psychonomic Society, 24*, 124.

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Durgin, F. H. & *Zhu, T. O.. (2018). Using the IAT to measure the dark side of conceptual metaphor theory. *Abstracts of the Psychonomic Society, 23,* 55.

*Keezing, U. I., & Durgin, F. H. (2018). Explicit estimates of angular direction are more expanded in elevation than in azimuth, even with sideways observers. *Journal of Vision, 18*(10):501-501. https://doi.org/10.1167/18.10.501

*Keezing, U. I., & Durgin, F. H. (2018). The effect of the ground plane on the estimation of angular declination. *Abstracts of the Psychonomic Society, 23,* 291.

*Portley, M., & Durgin, F. H. (2017). The second elbow in number perception. *Journal of Vision, 17*(10):1253-1253. https://doi.org/10.1167/17.10.1253

*Shepherd, E., & Durgin, F. (2017). When and why does adaptation increase perceived number? *Journal of Vision, 17*(10):1256-1256. https://doi.org/10.1167/17.10.1256

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*Deckard, A., *Santos, L., & Durgin, F. H. (2016) Vision for guidance and vision for feedback: A study of throwing. *Journal of Vision, 16*(12):672-672. https://doi.org/10.1167/16.12.672

Durgin, F. H., & Li, Z. (2016). The large-scale horizontal-vertical illusion produced with small objects. *Journal of Vision, 16*(12):293-293. https://doi.org/10.1167/16.12.293

Elam, A., Norris, C. J., *Prettyman, G., *Lefco, R., & Durgin, F. H. (2016). Failure of spontaneous phase locking for side-by-side walkers in visual contact. *Journal of Vision, 16*(12):1364-1364. https://doi.org/10.1167/16.12.1364

*Scheibmeir, A., Dean, A., Christie, S., & Durgin, F. H. (2016). Do children demonstrate biases in space perception consistent with angular expansion? *Journal of Vision, 16*(12):778-778. https://doi.org/10.1167/16.12.778

*Shepherd, E., & Durgin, F. H. (2016). No effect of unitization (connectedness) on the adaptation of perceived number. *Journal of Vision, 16*(12):815-815. https://doi.org/10.1167/16.12.815

Durgin, F. H., *Klein, B., *Thomson, C., & *Cifuentes, E. (2015). Representational biases in the perception of visuospatial orientation: Gravitational and other reference frames. *Journal of Vision, 15*(12):1036-1036. https://doi.org/10.1167/15.12.1036

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Other Conference Presentations (abstracts not published)

Durgin, F. H. & Boardman, A. (May, 2024). Metaphor, emotion, and the evolved sensory interface. *EvoLang Conference on the Evolution of Language*, Madison, WI.

Durgin, F. H., & Martinez, Z. (November, 2023). *Adaptation suggests that perceived number is computed from density and display size*. Presented at the Annual Meeting of the Psychonomic Society, San Francisco, CA.

Durgin, F. H. (November, 2022). *Angular Scale Expansion: Large, stable distortions in the perception of locomotor space are consistent with the Interface Theory of Perception*. Presented at the Annual Meeting of the Psychonomic Society, Boston MA.

Durgin, F. H., & *Lewis, J. (July 27, 2019). *The dark side of conceptual metaphor.* Cognitive Science Society, Montreal.

Durgin, F. H., & *Zhu, T. (June 29, 2018). *Measuring the dark side of metaphor.* Presented at RaAM (Researching and Applying Metaphor), Hong Kong.

Durgin, F. H., & *Zhu, T. (August 2, 2017). *Conventional metaphor as abstract analogy.* Presented at the Analogy Meeting, Paris.

Durgin, F. H., & *Gelpi, R. (July 29, 2017). *When do vehicles of similes become figurative? Gaze patterns show that similes and metaphors are initially processed differently.* Cognitive Science Society, London.

Durgin, F. H. (January 30, 2017). *Orientation and direction perception in re-oriented observers.* Presented at 42nd Annual Interdisciplinary Conference, Breckenridge, CO.

Durgin, F. H. (February 2, 2016). *The possible role of angular expansion in the misperception of large-scale space.* Presented at 41st Annual Interdisciplinary Conference, Breckenridge, CO.

Durgin, F. H., *Cifuentes, E., *Klein, B. (October 11, 2014). *Representational biases in the perception of visuospatial orientation: Gravitational and other reference frames.* Presented at the Fall VIsion Meeting of the Optical Society of America, Philadelphia, PA.

Sikos, L., Thibodeau, P., *Strawser, C., & Durgin, F. H. (2013). *Advantages of extending vs. mixing metaphors: An ERP study*. Presented at the 26th Annual CUNY Conference on Human Sentence Processing, March 21-23, 2013, University of South Carolina.

Sikos, L., & Durgin, F. H. (2012). *The cost of extending vs. mixing metaphors: An ERP study*. Presented at "*Understanding the meaning of words and sentences: The role of non-linguistic processes"* September 16-19, 2012, University of Tübingen, Germany.

Thibodeau, P.H., & Durgin, F. (2009). *Some theories are obstacles: Aptness is not an explanatory variable.* CUNY Conference on Human Sentence Processing, Davis, CA.

Hajnal, A. & Durgin, F. H. (2008). *Perception of slope by eye, hand, foot and finger: Evidence for an amodal vertical tendency*. Poster presented at the North American Meeting of the International Society for Ecological Psychology, Storrs, CT.

Durgin, F. H., (June, 2006). *Integration of locomotor and inertial signals*. Presented at the 7th annual meeting of the International Multisensory Research Forum, Dublin, Ireland

Durgin, F.H. (October, 2005). *The perception of linear self-motion*. Presented at the European Science Foundation conference on 3D Sensory and Motor Space, San Filiu de Guixols, Spain.

Durgin, F. H. (May, 2005) *Adaptive sensory coding: Enhanced visual velocity discrimination during self-motion*. Paper presented at the fifth annual meeting of the Vision Sciences Society, Sarasota. FL.

Durgin, F. H., & *Fox, L. F. (April, 2003). *Cue calibration and integration in the perception of linear self-motion: Dynamic vs kinematic acceleration.* Paper presented at the European Research Conference on "Three-Dimensional Sensory and Motor Space", Acquafredda di Maratea, Italy.

Durgin, F. H. (August, 1999). *The quasi-modal perception of visual detail: textures and faces*. Paper presented at the European Conference on Visual Perception, Trieste, Italy.

Durgin, F. H. (June, 1998). Supporting the "Grand Illusion" of direct perception: Implicit learning in eye-movement control. Paper presented at Tuscon III.: Toward a Science of Consciousness, Tuscon, AZ.

Durgin, F. H., & *Wiles, E. M. (November, 1998). *Hemispheric reflections: Faces and things.* Paper presented at the 39th annual meeting of the Psychonomic Society, Dallas, TX.

Durgin, F. H., & *Lewis, D. A. (June, 1997). *Consciousness and action: implicit learning in "visual search"*. Paper presented at the second annual meeting of the Association for the Scientific Study of Consciousness, Claremont, CA.

Durgin, F. H., & Pelah, A. (December, 1997). *The role of optic flow in visuo-motor calibration during running.* Paper presented at the Meeting of the Physiological Society, Cambridge, England.

Lachter, J., & Durgin, F. H. (June, 1997). *Fleeting awareness in metacontrast?*. Paper presented at the second annual meeting of the Association for the Scientific Study of Consciousness, Claremont, CA.

Durgin, F. H., & *Huk, A. C. (October, 1996). *Non-spatial coding of spatial information in visual texture perception.* Paper presented at the 37th Annual Meeting of the Psychonomic Society, Chicago, IL.

Durgin, F. H., & *Tsina, L. (October, 1996). *Stereoscopic depth constancy with real objects.* Paper presented at the Hans-Lukas Teuber Symposium, Cambridge, MA.

Durgin, F. H. (November, 1995). *Sequence-contingent texture aftereffects: Interocular studies.* Paper presented at the 36th Annual Meeting of the Psychonomic Society, Los Angeles, CA.

Durgin, F. H., & Proffitt, D. R. (November, 1993). *Combining recalibration and learning accounts of contingent aftereffects*. Paper presented at the annual meeting of the Psychonomic Society, Washington, DC.

Gelman, R., Durgin, F., & Kaufman, L. (January, 1993) *Distinguishing between animates and inanimates*. Paper presented at the Fyssen Conference on Causal Understanding and Culture, France.

Durgin, F. H., & Proffitt, D. R. (November, 1991). *Detection of texture density: Evidence from adaptation.* Paper presented at the annual meeting of the Psychonomic Society, San Francisco.

Invited Talks, Symposia and Colloquia

Dramatic bias in the perception of surface layout: An efficient coding account. Invited colloquium: Vision Research Center, University of Pennsylvania, April 23, 2018.

Possible advantages (for action) of systematic distortions in the perception of large-scale space. Invited colloquium: Cognitive, Linguistic and Psychological Sciences, Brown University, March 8, 2018.

Simile and metaphor: What ERPs and eye-movements can tell us about figurative language. Invited colloquium: Department of Psychological and Behavioral Sciences, Zhejiang University, October 20, 2017.

The cognitive science of racism: Anchoring, familiarity and metaphor. Invited colloquium: Department of Psychology, Oberlin College, October 9, 2017.

Sources of bias in the perception of large scale space. Invited colloquium, Psychological Sciences, Purdue University, October 13, 2015.

Large distortions in the perceptual experience of locomotor space are consistent with efficient coding strategies for controlling action. Invited colloquium, Philosophy, Psychology and Neuroscience, University of London, October 16, 2014.

What is "embodied perception" the embodiment of? A critical review. Invited colloquium, Philosophy, Psychology and Neuroscience, University of Glasgow, October 15, 2014.

The angular expansion hypothesis of locomotor space perception: A coding efficiency explanation of bias in the perception of action space. Invited colloquium, Philosophy, Psychology and Neuroscience, University of Glasgow, October 13, 2014.

An efficient coding theory of dramatic perceptual distortions in the human experience of locomotor space. Colloquium, University of California, Irvine, February, 12, 2014.

Is it possible to tell if an effect is perceptual? A critique of the evidence for the effort hypothesis of embodied perception. Colloquium, University of California, Santa Barbara, February, 7, 2014.

An efficient coding theory of dramatic perceptual distortions in the human experience of space. Cognitive Forum, University of California, Los Angeles, February, 7, 2014.

Why do things look closer than they are? A cognitive coding explanation of bias in the perception of locomotor space. Invited colloquium, University of Texas, Austin, October 21, 2013.

Why do things look closer than they are? A cognitive coding explanation of bias in the perception of locomotor space. Invited symposium presentation, University of Sao Paulo, Ribeirão Preto, SP, Brazil, September 27, 2013.

Why precision is more important than accuracy for the control of action. Invited colloquium, University of Sao Paulo, Ribeirão Preto, SP, Brazil, September 26, 2013.

Why do hills look so steep? A cognitive coding explanation of bias in the perception of locomotor space. Invited colloquium, University of Sao Paulo, Ribeirão Preto, SP, Brazil, September 25, 2013.

Why do things look closer than they are? Symposium on Visual Appearance, Annual meeting of the Vision Sciences Society, Naples FL, May 10, 2013.

Predictive efficiency as a source of error in perception and in cognition. Invited colloquium, Temple University, Philadelphia, PA, December 16, 2012

Predictive efficiency as a source of bias in perception and language processing. Workshop on The role of non-linguistic processes in sentence comprehension. Tübingen, Germany, September 18, 2012.

Angular scale expansion and action space. Invited contribution to the Symposium on How Vertical Spaces Are Perceived and Represented**.** International Conference on Spatial Cognition, Rome, Italy, September 4, 2012.

Space is perceived from an expanded perspective. Invited contribution to the Symposium on How Vertical Spaces Are Perceived and Represented**.** Annual meeting of the Cognitive Science Society, Sapporo, Japan, August 3, 2012.

How systematic misperceptions of space might be useful. Invited Colloquium, Johns Hopkins University, Baltimore, MD, September, 21, 2011.

Angular overestimation may enhance coding precision: Scale expansion theory in slant perception. Invited Symposium Address, Fechner Day 2010, Society for Psychophysics, Padua, Italy, October, 20, 2010.

Perceptual scale expansion and the control of action. Invited Address, Workshop on Perception and Action, Hong Kong University, Hong Kong, China, August 23, 2010.

Why is the perception of geographical slant exaggerated? Invited Symposium Address, International Conference on Cognitive Science, Beijing, China, August 18, 2010.

What's up with slope? A new theory of why geographical slant perception tends to be exaggerated. Invited Colloquium, Temple University, Department of Psychology, March 22, 2010.

What's up with slope? A new theory of why geographical slant perception tends to be exaggerated. Invited Colloquium, Pomona College, Claremont, CA. December 4, 2009.

Controlled interactivity in the study of perception. Invited symposium presentation, November 19, 2009, Society for Computers in Psychology, Boston, MA

The multisensory world of walking and the tuning of perceptiont. Faculty Lecture, April 10, 2007, Swarthmore College, Swarthmore, Pennsylvania.

Linear self-motion: A progress report. Invited colloquium, March 7, 2006, Max Planck Institute, Tübingen. Germany.

The perception of linear self-motion. Invited address, January 20, 2005, at the symposium on Vision, Action and Locomotion in Virtual (and Real) Environments, SPIE/IS&T Electronic Imaging, San Jose Convention Center, San Jose, California.

Locomotor adaptation and multi-sensory inter-calibration in the perception of self motion. . Colloquium given October, 7, 2003, Department of Psychology, Pennsylvania State University, State College, Pennsylvania.

Supporting the Grand Illusion: Implicit oculomotor learning in visual search. Colloquium given March 8, 1999, Department of Psychology, Rutgers University, New Brunswick, New Jersey.

The Grand Illusion of complete perception: Experiments in the calibration of perception and control of action. Kenneth Craik lecture given October 23rd, 1997, Cambridge University, Cambridge, England.

The filling-in of visual detail: modal or amodal? Invited address, October 17, 1997, Trieste Symposium on Perception and Cognition, Trieste, Italy.

The Grand Illusion of complete perception. Colloquium given September 26, 1997, Department of Psychology, Bryn Mawr College, Pennsylvania.

*Looking at perception in detail: The visual coding of "stuff"."*Given November 13, 1996, University of Virginia, Department of Psychology, Virginia.

Looking at perception in detail: The visual experience of material substances. Colloquium given February 9, 1996, Bucknell University, Department of Psychology, PA.

Looking at perception in detail: The visual experience of "stuff." Given January, 17, 1996, Pennsylvania State University, Department of Psychology, State College, Pennsylvania.

Learning to see "stuff": surprising adaptations in the perception of visual texture. Given November 18, 1995 at Temple University, Department of Psychology, Philadelphia, Pennsylvania.

Looking at perception in detail. Given September 30, 1995, at the Tri-College Symposium, Haverford College, PA.

Consulting Editor

Journal of Experimental Psychology: Human Perception and Performance (2012-2022)
Psychonomic, Bulletin & Review (2011-2012)

Ad Hoc Reviewer

Acta Psychologica, Attention Perception & Psychophysics, Behavioral and Brain Sciences, Cognition, Cognitive Science, Cognitive Psychology, Current Biology, Human Movement Science, Journal of Experimental Psychology: Applied, Journal of Experimental Psychology: General, Journal of Experimental Psychology: Human Perception and Performance, Journal of Experimental Psychology: Learning Memory and Cognition, Journal of Memory and Language, Journal of the Optical Society of America, Journal of Vision, Memory & Cognition, Perception, PLOS One, Psychological Review, Psychological Science, Psychonomic Bulletin & Review, Vision, Vision Research

Professional Societies

1990 – present	American Psychological Society
2017 – present	American Association of University Professors
2014 – present	Cognitive Science Society
1995 – present	Psychonomic Society
1994 – present	Sigma Xi, the Scientific Research Society (President of local chapter, 1999-2000)
2001 – present	Vision Sciences Society

Post-Doctoral Supervisions

2007	Jeffrey Saunders (Now at Hong Kong University)
2008	Alen Hajnal (Now at the University of Southern Mississippi)
2008-2015	Zhi Li (Now at Zhejiang University)
2012-2015	Les Sikos (Now at Amazon/Alexa)
2015-2018	Amanda Elam
2018-2023	Peiyao Chen (Now at Haverford College)

Grant Awards and Honors

2016-2017	Michener Sabbatical Award
2015-present	Fellow, Psychonomic Society
2010-2017	NIH AREA Grant #R15-EY021026 from the National Eye Institute *Cognitive biases in the perception of spatial orientation*
2013-2014	Lang Sabbatical Award
2005-2006	Lang Sabbatical Award
1997-1998	Lang Sabbatical Award
1992-1993	"Perceptual Response to Visual Noise and Display Media" NASA predoctoral fellowship (NAG 2-812 to D. R. Proffitt)
1991-1992	"Perceptual Adaptation in the Use of Night Vision Goggles" NASA predoctoral fellowship (NAG 2-721 to D. R. Proffitt)
May, 1986	*Valedictorian*, St. John's College, Annapolis, MD

May, 1981 *Cum Laude Society*, Phillips Exeter Academy, Exeter, NH

Teaching Experience

Cognitive Psychology	F94-96, F98-00, F02, S04, F04, F06-08, F10-12
Cognitive Science of Racism in the US	J21
Introduction to Cognitive Science	S98, F14-16, F18-20, F22, F23, F24
Perception	S95-97, F98, S00, S01, S03, F03, S05, S07, F07, S09, S11-13, S16, S17, S19
Perception:Seminar and Laboratory Course	S23
Perception and Embodiment	S08
Research Design & Analysis	F96, F99, S04, F11
Res. Prac. Cognition and Perception	F08-12, F15, F18-22
Seminar in Cognitive Psychology	S95, S96, S97, S00, S01, S03, S05, S07- S09
Seminar in Metaphor and Mind	S12, S15, F18, F20
Seminar in Perception and Attention	F95, F00, S04
Sem: Perception, Cognition, Embodiment	S11, S13
Visual Attention	F94

Theses Supervised

2023-2024	Ping Wen (*Haverford College*, Cognitive Science)
2022-2023	Tshering Dorji (Honors Cognitive Science), Gabe Levis (Neuroscience), Charlotte Dagones (*Haverford College*, Cognitive Science), Devyani Mahajan (Cognitive Science), Zahara Martinez (Cognitive Science)
2021-2022	Cheyenne Valenzuela (Cognitive Science)
2019-2020	Elsie Aubry (Cognitive Science), Shelby N. Billups (Cognitive Science), Eishna Ranganathan (Cognitive Science), Rose Ridder (Cognitive Science)
2018-2019	McKenzie Himelein-Wachowiak (Neuroscience)
2017-2018	(while on leave) Makayla Portley (Honors Neuroscience), Sean Woodruff (*Haverford College,* Cognitive Science), Emilie Shepherd (Neuroscience)
2016-2017	Tina Zhu (Honors Cognitive Science), Rebekah Gelpi (Cognitive Science), Christina Shincovich (Neuroscience)
2015-2016	Cecilia Paasche (Honors Neuroscience)
2014-2015	Elisabeth Tawa (Honors Neuroscience), Jaehyun Oh (Honors Psychology & Education)
2013-2014	(while on leave) Stephanie Lechich, Morgan Williams, Vincent Stigliani (Honors Cognitive Science), Brennan Klein (Cognitive Science), Elizabeth Cifuentes (Neuroscience)
2010-2011	Anne Charlotte Mecklenberg, Gage Newman, Zachary Ontiveros (Cognitive Science)
2009-2010	(while on leave) Carey Pietch, Selmaan Chettih (Honors), Anthony Stigliani (Honors)
2008-2009	Emily Sun, Laura Wolk
2007-2008	Katherine Bates (Honors), Andrew LeClair, Robert Russell
2006-2007	Kristy Simmons (Honors), Chase Dubois (Honors), Melissa Lavan
2005-2006	(while on leave) Paul Thibodeau (Honors), Joey Roth
2004-2005	Evan Schaffer (Honors), Natalie Dunphy, Laurel Evans
2003-2004	Ross Messing (Honors, Computer Science)
2002-2003	Laura Fox (Honors), Rabi Whitaker (Cognitive Science)
2001-2002	(while on leave): Louisa Egan (Honors), Rachel Kane
2000-2001	Jeff Ebert (Cognitive Science)
1999-2000	Julie Kennedy, Jed Lewis, Michael Waddington (Honors)
1998-1999	Wendy Kemp (Honors)
1997-1998	(while on leave): Saudia Amiruddin, Elizabeth Wiles
1996-1997	David Lewis, Sarah Wolfe
1995-1996	Alex Huk (Honors)