Barbara Tversky
Professor of Psychology, Emerita

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Psychology

Publications

PUBLICATIONS

- When Far Becomes Near: Perspective Taking Induces Social Remapping of Spatial Relations *Psychological Science*
  Cavallo, A., Ansuini, C., Capozzi, F., Tversky, B., Becchio, C.
  2017; 28 (1): 69-79

- Coordinating Gesture, Word, and Diagram: Explanations for Experts and Novices *Spatial Cognition and Computation*
  Kang, S., Tversky, B., Black, J. B.

- Conceptually congruent actions can promote thought *Journal of Applied Research in Memory and Cognition*
  Segal, A., Tversky, B., Black, J.
  2014; 3 (3): 124-130

- Thinking in action *Pragmatics & Cognition*
  Tversky, B., Kessell, A.
  2014; 22 (2): 206-223

- Through your eyes: incongruence of gaze and action increases spontaneous perspective taking *Frontiers in Human Neuroscience*
  Furlanetto, T., Cavallo, A., Manera, V., Tversky, B., Becchio, C.
  2013; 7

- Space, Time, and Story *Psychology of Learning and Motivation, Vol 58*
  Tversky, B., Heiser, J., Morrison, J.
  2013; 58: 47-76

- How to put things together *Cognitive Processing*
  Daniel, M., Tversky, B.
  2012; 13 (4): 303-319

- Some ways gestures guide thought
  Tversky, B., Jamalian, A., Kang, S.
  Springer Heidelberg.2012: S32–S32

- Remembering Routes: Streets and Landmarks *Applied Cognitive Psychology*
  Tom, A. C., Tversky, B.
  2012; 26 (2): 182-193
• The Shape of Action  JOURNAL OF EXPERIMENTAL PSYCHOLOGY-GENERAL
  Hard, B. M., Recchia, G., Tversky, B.
  2011; 140 (4): 586-604

• Visualizing Thought  TOPICS IN COGNITIVE SCIENCE
  Tversky, B.
  2011; 3 (3): 499-535

• Effects of visual and verbal presentation on cognitive load in vigilance, memory, and arithmetic tasks  PSYCHOPHYSIOLOGY
  Klingner, J., Tversky, B., Hanrahan, P.
  2011; 48 (3): 323-332

• Visualizing space, time, and agents: production, performance, and preference  COGNITIVE PROCESSING
  Kessell, A., Tversky, B.
  2011; 12 (1): 43-52

• Embodied and disembodied cognition: Spatial perspective-taking  COGNITION
  Tversky, B., Hard, B. M.
  2009; 110 (1): 124-129

• Cognitive Methods for Visualizing Space, Time, and Agents  5th International Conference on Diagrammatic Representation and Inference
  Kessell, A. M., Tversky, B.
  SPRINGER-VERLAG BERLIN.2008: 382–384

• The effect of animation on comprehension and interest  JOURNAL OF COMPUTER ASSISTED LEARNING
  Kim, S., Yoon, M., Whang, S., Tversky, B., Morrison, J. B.
  2007; 23 (3): 260-270

• Making sense of abstract events: Building event schemas  MEMORY & COGNITION
  Hard, B. M., Tversky, B., Lang, D. S.
  2006; 34 (6): 1221-1235

• Arrows in comprehending and producing mechanical diagrams  COGNITIVE SCIENCE
  Heiser, J., Tversky, B.
  2006; 30 (3): 581-592

• How eyewitnesses talk about events: Implications for memory  APPLIED COGNITIVE PSYCHOLOGY
  Marsh, E. J., Tversky, B., Hutson, M.
  2005; 19 (5): 531-544

• Bodies and their parts  MEMORY & COGNITION
  Morrison, J. B., Tversky, B.
  2005; 33 (4): 696-709

• Expert and non-expert knowledge of loosely structured environments  International Conference on Spatial Informational Theory
  Fontaine, S., Edwards, G., Tversky, B., Denis, M.
  SPRINGER-VERLAG BERLIN.2005: 363–378

• Segmenting Everyday Actions: an Object Bias?  26th Annual Conference of the Cognitive-Science-Society
  Dowell, R. E., Martin, B. A., Tversky, B.
  LAWRENCE ERLBAUM ASSOC PUBL.2005: 1553–1553

• Narratives of space, time, and life  Conference on Narrative
  Tversky, B.
  WILEY-BLACKWELL PUBLISHING, INC.2004: 380–92

• Spinning the stories of our lives  APPLIED COGNITIVE PSYCHOLOGY
  Marsh, E. J., Tversky, B.
  2004; 18 (5): 491-503
• Telling a story or telling it straight: The effects of entertaining versus accurate retellings on memory APPLIED COGNITIVE PSYCHOLOGY
  Dudukovic, N. M., Marsh, E. J., Tversky, B.
  2004; 18 (2): 125-143

• Characterizing diagrams produced by individuals and dyads 4th International Conference on Spatial Cognition
  Heiser, J., Tversky, B.
  SPRINGER-VERLAG BERLIN.2004: 214–226

• Designing effective step-by-step assembly instructions Annual Symposium of the ACM SIGGRAPH
  Agrawala, M., Phan, D., Heiser, J., Haymaker, J., Klingner, J., Hanrahan, P., Tversky, B.
  ASSOC COMPUTING MACHINERY.2003: 828–37

• Structuring information interfaces for procedural learning 40th Annual Meeting of the Psychonomic-Society
  Zacks, J. M., Tversky, B.
  AMER PSYCHOLOGICAL ASSOC.2003: 88–100

• Cognitive design principles for visualizations: Revealing and instantiating 25th Annual Conference of the Cognitive-Science-Society
  Heiser, J., Tversky, B., Agrawala, M., Hanrahan, P.
  LAWRENCE ERLBAUM ASSOC PUBL.2003: 545–550

• Constructive perception: A metacognitive skill for coordinating perception and conception PROCEEDINGS OF THE TWENTY-FIFTH ANNUAL CONFERENCE OF THE COGNITIVE SCIENCE SOCIETY, PTS 1 AND 2
  Suwa, M., Tversky, B.
  2003: 1140-1145

• Structures of mental spaces - How people think about space ENVIRONMENT AND BEHAVIOR
  Tversky, B.
  2003; 35 (1): 66-80

• Sketches for design and design of sketches Conference on Human Behaviour in Design
  SPRINGER-VERLAG BERLIN.2003: 79–86

• Navigating by mind and by body Spatial Cognition 2002 Meeting
  Tversky, B.
  SPRINGER-VERLAG BERLIN.2003: 1–10

• Segmenting ambiguous events 25th Annual Conference of the Cognitive-Science-Society
  Martin, B. A., Tversky, B.
  LAWRENCE ERLBAUM ASSOC PUBL.2003: 781–786

• Animation: can it facilitate? Workshop on Interactive Graphical Communication
  Tversky, B., Morrison, J. B., Betrancourt, M.
  ACADEMIC PRESS LTD- ELSEVIER SCIENCE LTD.2002: 247–62

• A parametric study of mental spatial transformations of bodies NEUROIMAGE
  Zacks, J. M., Ollinger, J. M., Sheridan, M. A., Tversky, B.
  2002; 16 (4): 857-872

• External representations contribute to the dynamic construction of ideas 2nd International Conference on Theory and Application of Diagrams
  Suwa, M., Tversky, B.
  SPRINGER-VERLAG BERLIN.2002: 341–343

• Perceiving, remembering, and communicating structure in events 38th Annual Meeting of the Psychonomic-Society
  Zacks, J. M., Tversky, B., Iyer, G.
  AMER PSYCHOLOGICAL ASSOC.2001: 29–58

• Event structure in perception and conception PSYCHOLOGICAL BULLETIN
  Zacks, J. M., Tversky, B.
  2001; 127 (1): 3-21
• **Effect of computer animation on users' performance: A review** *TRAVAIL HUMAIN*
  Betrancourt, M., Tversky, B.
  2000; 63 (4): 311-329

• **Biased retellings of events yield biased memories** *COGNITIVE PSYCHOLOGY*
  Tversky, B., Marsh, E. J.

• **Lines, blobs, crosses and arrows: Diagrammatic communication with schematic figures** *1st International Conference on Theory and Application of Diagrams (Diagrams 2000)*
  Tversky, B., Zacks, J., Lee, P., Heiser, J.
  SPRINGER-VERLAG BERLIN 2000: 221–230

• **Familiarity and categorical inference** *22nd Annual Conference of the Cognitive-Science-Society*
  Collister, D., Tversky, B.
  LAWRENCE ERLBAUM ASSOC PUBL. 2000: 1020–1020

• **Some ways that maps and diagrams communicate** *SPATIAL COGNITION II*
  Tversky, B.
  2000; 1849: 72-79

• **Cognitive models of geographical space** *INTERNATIONAL JOURNAL OF GEOGRAPHICAL INFORMATION SCIENCE*
  Mark, D. M., Freksa, C., Hirtle, S. C., Lloyd, R., Tversky, B.
  1999; 13 (8): 747-774

• **Bars and lines: A study of graphic communication** *MEMORY & COGNITION*
  Zacks, J., Tversky, B.
  1999; 27 (6): 1073-1079

• **Three spaces of spatial cognition** *1997 Annual Meeting of the Association-of-American-Geographers*
  Tversky, B., Morrison, J. B., Franklin, N., Bryant, D. J.
  ROUTLEDGE JOURNALS, TAYLOR & FRANCIS LTD 1999: 516–24

• **Imagined transformations of bodies: an fMRI investigation** *NEUROPSYCHOLOGIA*
  Zacks, J., Rypma, B., Gabrieli, J. D., Tversky, B., Glover, G. H.
  1999; 37 (9): 1029-1040

• **Mental representations of perspective and spatial relations from diagrams and models** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-LEARNING MEMORY AND COGNITION*
  Bryant, D. J., Tversky, B.
  1999; 25 (1): 137-156

• **Pictorial and verbal tools for conveying routes** *International Conference on Spatial Information Theory (COSIT 99)*
  Tversky, B., Lee, P. U.
  SPRINGER-VERLAG BERLIN 1999: 51–64

• **Ontology and geographic objects: An empirical study of cognitive categorization** *International Conference on Spatial Information Theory (COSIT 99)*
  Mark, D. M., Smith, B., Tversky, B.
  SPRINGER-VERLAG BERLIN 1999: 283–298

• **Reading bar graphs: Effects of extraneous depth cues and graphical context** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-APPLIED*
  Zacks, J., Levy, E., Tversky, B., Schiano, D. J.

• **Indexing events in memory: Evidence for index dominance** *MEMORY*
  Taylor, H. A., Tversky, B.
  1997; 5 (4): 509-542

• **Three-dimensional bilateral symmetry bias in judgments of figural identity and orientation** *PSYCHOLOGICAL SCIENCE*
  McBeath, M. K., Schiano, D. J., Tversky, B.
What's happening? The structure of event perception  
Zacks, J., Tversky, B.  
1997; 8 (3): 217-223  
19th Annual Conference of the Cognitive-Science-Society  
LAWRENCE ERLBAUM ASSOC PUBL. 1997: 1095–1095

Body schemas  
Morrison, J. B., Tversky, B.  
1997; 8 (3): 217-223  
19th Annual Conference of the Cognitive-Science-Society  
LAWRENCE ERLBAUM ASSOC PUBL. 1997: 525–529

Perspective in spatial descriptions  
Taylor, H. A., Tversky, B.  
JOURNAL OF MEMORY AND LANGUAGE

SPATIAL CONCEPTS AND PERCEPTION OF PHYSICAL AND DIAGRAMMED SCENES  
Bryant, D. J., Lanca, M., Tversky, B.  
1995; 81 (2): 531-546  
PERCEPTUAL AND MOTOR SKILLS

COGNITIVE ORIGINS OF GRAPHIC PRODUCTIONS  
Tversky, B.  
1995: 29–53  
Conference on Understanding Images

SPATIAL MENTAL MODELS FROM DESCRIPTIONS  
Tversky, B., Franklin, N., Taylor, H. A., Bryant, D. J.  
1994; 45 (9): 656-668  
JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE

PREPOSITIONS AREN'T PLACES  
Tversky, B., Clark, H. H.  
1993; 16 (2): 252-253  
BEHAVIORAL AND BRAIN SCIENCES

DESCRIPTIONS AND DEPICTIONS OF ENVIRONMENTS  
Taylor, H. A., Tversky, B.  
1992; 20 (5): 483-496  
MEMORY & COGNITION

SWITCHING POINTS-OF-VIEW IN SPATIAL MENTAL MODELS  
Franklin, N., Tversky, B., COON, V.  
MEMORY & COGNITION

DISTORTIONS IN COGNITIVE MAPS  
Tversky, B.  
1992; 23 (2): 131-138  
GEOFORUM

SPATIAL MENTAL MODELS DERIVED FROM SURVEY AND ROUTE DESCRIPTIONS  
Taylor, H. A., Tversky, B.  
1992; 31 (2): 261-292  
JOURNAL OF MEMORY AND LANGUAGE

INTERNAL AND EXTERNAL SPATIAL FRAMEWORKS FOR REPRESENTING DESCRIBED SCENES  
Bryant, D. J., Tversky, B., Franklin, N.  
JOURNAL OF MEMORY AND LANGUAGE

ASSESSING SPATIAL FRAMEWORKS WITH OBJECT AND DIRECTION PROBES  
Bryant, D. J., Tversky, B.  
1992; 30 (1): 29-32  
BULLETIN OF THE PSYCHONOMIC SOCIETY

STRUCTURE AND STRATEGY IN ENCODING SIMPLIFIED GRAPHS  
Schiano, D. J., Tversky, B.  
MEMORY & COGNITION

CROSS-CULTURAL AND DEVELOPMENTAL-TRENDS IN GRAPHIC PRODUCTIONS  
Tversky, B., Kugelmass, S., Winter, A.  
COGNITIVE PSYCHOLOGY
• PARTS AND THE BASIC LEVEL IN NATURAL CATEGORIES AND ARTIFICIAL STIMULI - COMMENTS ON MURPHY (1991) MEMORY & COGNITION
  Tversky, B., Hemenway, K.

• SPATIAL MENTAL MODELS PSYCHOLOGY OF LEARNING AND MOTIVATION-ADVANCES IN RESEARCH AND THEORY
  Tversky, B.

• SEARCHING IMAGINED ENVIRONMENTS JOURNAL OF EXPERIMENTAL PSYCHOLOGY-GENERAL
  Franklin, N., Tversky, B.
  1990; 119 (1): 63-76

• PERCEPTUAL AND CONCEPTUAL FACTORS IN DISTORTIONS IN MEMORY FOR GRAPHS AND MAPS JOURNAL OF EXPERIMENTAL PSYCHOLOGY-GENERAL
  Tversky, B., Schiano, D. J.
  1989; 118 (4): 387-398

• PARTS, PARTONOMIES, AND TAXONOMIES DEVELOPMENTAL PSYCHOLOGY
  Tversky, B.
  1989; 25 (6): 983-995

• A RECONCILIATION OF THE EVIDENCE ON EYEWITNESS TESTIMONY - COMMENTS JOURNAL OF EXPERIMENTAL PSYCHOLOGY-GENERAL
  Tversky, B., TUCHIN, M.
  1989; 118 (1): 86-91

• DEVELOPMENT OF TAXONOMIC ORGANIZATION OF NAMED AND PICTURED CATEGORIES DEVELOPMENTAL PSYCHOLOGY
  Tversky, B.
  1985; 21 (6): 1111-1119

• MEMORY FOR FACES - ARE CARICATURES BETTER THAN PHOTOGRAPHS MEMORY & COGNITION
  Tversky, B., Baratz, D.
  1985; 13 (1): 45-49

• CITATION CLASSIC - PICTORIAL AND VERBAL ENCODING IN A SHORT-TERM-MEMORY TASK CURRENT CONTENTS/SOCIAL & BEHAVIORAL SCIENCES
  Tversky, B.
  1984: 18-18

• OBJECTS, PARTS, AND CATEGORIES JOURNAL OF EXPERIMENTAL PSYCHOLOGY-GENERAL
  Tversky, B., Hemenway, K.
  1984; 113 (2): 169-193

• FORCE OF SYMMETRY IN FORM PERCEPTION AMERICAN JOURNAL OF PSYCHOLOGY
  Freyd, J., Tversky, B.
  1984; 97 (1): 109-126

• CATEGORIES OF ENVIRONMENTAL SCENES COGNITIVE PSYCHOLOGY
  Tversky, B., Hemenway, K.
  1983; 15 (1): 121-149

• DISTORTIONS IN MEMORY FOR MAPS COGNITIVE PSYCHOLOGY
  Tversky, B.
  1981; 13 (3): 407-433

• DEVELOPMENTAL-TRENDS IN THE USE OF PERCEPTUAL AND CONCEPTUAL ATTRIBUTES IN GROUPING, CLUSTERING, AND RETRIEVAL JOURNAL OF EXPERIMENTAL CHILD PSYCHOLOGY
  MELKMAN, R., Tversky, B., Baratz, D.