

CURRICULUM VITAE

Name: Dana Ganor-Stern

Born: Beer-Sheva, Israel

Citizenship: Israel

Address at work: Achva Academic College, M.P. Shikmim, 79800

Address at home: 64 Eshel street, Omer 84965.

Military service 1982-1983

1. Academic Education

B.A. - 1984-1987 - (cum laude) - Hebrew University of Jerusalem, in
Philosophy and International relations

M.A. - 1993-1994 - Wesleyan University, Middletown, CT, USA,
Department of Psychology

Name of Advisors: John Seamon, Marisa Carrasco

Title of thesis: The role of attention in implicit and explicit
memory

PhD. - 1998-2003 - (cum laude) - Ben Gurion University of the Negev,
Department of Behavioral Sciences.

Name of Advisor: Joseph Tzelgov

Title of thesis: Indicators for Automaticity: Conditions for
Processing Without Monitoring

2. Academic Employment

2008-present	Senior Lecturer at the Behavioral Sciences program, Achva academic college.
2007-2009	Senior consultant for the development of the Meitsav, Center of Educational Technology.
2005-2008	Lecturer at the Behavioral Sciences program, Achva academic college.
2003-2005	Post-doctoral research associate with Robert Siegler at the Department of Psychology, Carnegie Mellon University, Pittsburgh, PA, USA.

- 1998-2002 Teacher of BA and MA courses at the Behavioral Sciences Department, Ben Gurion University of the Negev.
- 1995-1997 Head of the writing test development team and consultant to the Ministry of Health on certification examinations for nurses, National Institute for Testing and Evaluation, Israel.
- 1993-1994 Teaching assistant and research assistant at the Department of Psychology, Wesleyan University, Middletown, CT, USA.
- 1993-1993 Intelligence tests constructor for Robert Sternberg at the Department of Psychology, Yale University, New Haven, CT, USA.
- 1992-1992 Research assistant at the Department of Psychiatry, Yale medical school, New Haven, CT, USA.
- 1989-1991 Head of Verbal Reasoning Division in the Psychometric testing division, National Institute for Testing and Evaluation, Israel.
- 1988-1989 Test developer at the Psychometric testing division, National Institute for Testing and Evaluation, Israel.

Positions in academic administration –

- 2008- present - Head of the Behavioural Sciences program in Achva Academic college.
- 2009- present - Coordinator for the development of the independent Psychology BA Program in Achva Academic college.

3. Educational activities

a. Courses taught

- Introduction to Testing – BA, Dept of Behavioral Sciences, Ben Gurion University
- Test Development – MA - Dept of Behavioral Sciences, Ben Gurion University
- Cognitive Psychology – BA – Achva academic college
- Introduction to Psychology - Dept of Behavioral Sciences, Ben Gurion University
- Mathematical Cognition – MA – Dept. of Education, Ben Gurion University
- Advanced measurement theories and their application to evaluation in education – MA, School of Education, Tel-Aviv University

Introduction to testing theory – MA, Department of Education, MA, Department of Psychology, Ben Gurion University

b. Research students

Active: Shirley Degarcea, MA (with Joseph Tzelgov)

Shachar Ben-Meir, PhD (with Joseph Tzelgov)

4. Awards, Citations, Honors, Fellowships

1999 “Wolf Foundation to promote science and art for the benefit of mankind” award for Ph.D. students.

2000 Zlotowski Center for Neuroscience Excellence Fellowship for Ph.D. students.

2002 Writing fellowship from the Israel Foundation Trustees.

5. Research Grants

2006-2010

Granting institution: Israel Science Foundation (ISF)

Grantees: **Dana Ganor** (PI) Joseph Tzelgov (CI - Ben Gurion University – BGU)

Subject: The representations underlying automatic and intentional processing of double-digit numbers.

Amount: \$ 140,000

2008-2012

Granting institution: Israel Science Foundation (ISF) – Center of Excellence

Grantees: Joseph Tzelgov (PI), **Dana Ganor** (CI). Other researchers in the center are Avishai Henik, Andrea Berger, Orly Rubinsten.

Subject of center: The Neurocognitive Basis of Numerical Cognition"

Amount: \$ 200,000

6. Scientific Publications

Papers in Refereed Journals and Book Chapters:

1. Seamon, J., **Ganor-Stern, D.**, Crowley, M., Mahoney, J., O'Rourke, C., Weber, W., & Wilson, S. (1997). A mere exposure effect for transformed three-dimensional objects: Effect of reflection, size or color changes on affect and recognition. *Memory & Cognition*, 25(3), 367-374.
2. **Ganor-Stern, D.**, Seamon, J., & Carrasco, M. (1998). The role of attention and study time in implicit memory for unfamiliar stimuli. *Memory & Cognition*, 26(6), 1187-1195.
3. Tzelgov, J., **Ganor-Stern, D.**, & Yehene, V. (1999). Automatic processing results in conscious representations (commentary). *Behavioral and Brain Sciences*, 22, 786-787.

4. Tzelgov, J., **Ganor-Stern, D.** (2005). Automaticity in processing ordinal information. In J. Campbell “*Handbook of Mathematical Cognition*”.
5. **Ganor-Stern, D.**, Tzelgov, J., & Ellenbogen, R. (2007). Automaticity and Two-Digit Numbers. *Journal of Experimental Psychology: Human Perception and Performance*, 33(2), 483-96.
6. **Ganor-Stern, D.**, & Tzelgov, J., (2008). Negative numbers are generated in the mind. *Experimental Psychology*, 55(3), 157-163.
7. **Ganor-Stern, D.**, & Tzelgov, J., (2008). Across-notation automatic processing. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 34(2), 430-437.
8. Tzelgov, J., **Ganor-Stern, D.**, & Maymon-Schreiber, K. (2009). The representation of negative numbers: Exploring the effects of mode of processing and notation. *Quarterly Journal of Experimental Psychology*, 62(3), 605-624
9. **Ganor-Stern, D.** Pinhas, M., & Tzelgov, J. (2009). Comparing Two-Digit Numbers: The Importance of Being Presented Together. *Quarterly Journal of Experimental Psychology*, 62(3), 444-452.
10. **Ganor-Stern, D.** (2009). Automatic numerical processing is based on an abstract representation (commentary). *Behavioral and Brain Sciences*, 32, 3-4, pp. 337-338.
11. **Ganor-Stern, D.**, Pinhas, M., Kallai, A, and Tzelgov, J. (2010). A holistic representation of negative numbers will be formed to meet the task requirement. *Quarterly Journal of Experimental Psychology*, 63(10), 1969-1981.
12. **Ganor-Stern, D.**, and Tzelgov, J. (2011). Across-notation automatic processing of two-digit numbers. *Experimental Psychology*, 58(2), 147-153.
13. **Ganor-Stern, D.**, Karasik-Rivkin, I. and Tzelgov, J. (2011). Holistic Representation of Unit Fractions. *Experimental Psychology*, 58(3), 201-207.
14. Pinhas, M., Tzelgov, J., & **Ganor-Stern, D.** (in press). Estimating Linear Effects in Cognitive Research: The easy way. *Behavioral Research Methods*.
15. **Ganor-Stern, D.** (2012). Fractions but not negative numbers are represented on the mental number line. *Acta Psychologica*, 139, 2, 350-357.
16. Ben-Meir, S., **Ganor-Stern, D.**, & Tzelgov, J. (in press). Numerical and physical magnitudes are mapped into time. *Quarterly Journal of Experimental Psychology*.

Papers submitted for publication:

1. **Ganor-Stern, D.** (Submitted). Comparing the processing of unit fractions and decimal fractions.
2. **Ganor-Stern, D.** (Submitted). When you don't have to be exact – Investigating computation estimation skills with a comparison task
3. **Ganor-Stern, D.,** & Pinhas, M. (Submitted). Testing Numerical Processing Using Same-Different Tasks
4. **Ganor-Stern, D.,** Plonsker, R., Perlman, A., & Tzelgov, J. (Submitted). Are All Changes Equal? Investigating the Effects of Early vs. Late Changes in Sequence Learning
5. **Ganor-Stern, D.,** Reich, A. & Tzelgov, J. (Submitted). Eye-movements indications for the size congruency effect.
6. **Ganor-Stern, D.,** Tzelgov, J. & Meiran, N. (Submitted). Do Automatic Processes Depend on Intention?.
7. Goldman, R., **Ganor-Stern, D.,** & Tzelgov, J. (Submitted). "On the Money" – Monetary and Numerical Judgments of Currency.
8. Tzelgov, J., **Ganor-Stern, D.,** Kallai, A., & Pinhas, M. (Submitted). Primitives and non-primitives of numerical representations. Invited chapter for the Oxford Handbook of Numerical Cognition.

Conference Presentations:

1. Seamon, J., **Ganor-Stern, D.,** Crowley, M., Mahoney, J., O'Rourke, C., Weber, W., & Wilson, S. (November, 1994). Mere exposure for transformed three-dimensional figures. Poster presented at Annual Convention, Psychonomics Society, St. Louis, MO.
2. **Ganor-Stern, D.,** Seamon, J., Carrasco, M. (June, 1995). Explicit and implicit memory for novel three-dimensional objects require attention. Poster presented at Annual Convention, American Psychological Society, New York, NY.
3. Carrasco, M., Seamon, J., **Ganor-Stern, D.** (June, 1995). Priming for possible and impossible figures occurs when stimulus complexity is equated. Poster presented at Annual Convention, American Psychological Society, New York, NY.
4. **Ganor-Stern, D.,** Riesel R. (July, 1997). The development of an academic writing test. Presentation at the conference of the Special Committee for Research in Processing of Texts, Mahaleh Hahamisha, Israel. (in Hebrew)

5. **Ganor-Stern, D.**, Tzelgov, J. (July, 2000). Indications for Automaticity: The case of semantic and syntactic processing. Poster presented at Annual Conference of the Association for the Scientific Study of Consciousness, Brussels, Belgium.
6. **Ganor-Stern, D.**, Tzelgov, J. (September, 2001). The effects of similarity in meaning and syntactic structure on subsequent sentence processing. Poster presented at the annual conference of the European Society for Cognitive Psychology, Edinburgh, Scotland.
7. **Ganor-Stern, D.**, Tzelgov, J. (June, 2002). Automaticity of semantic processing at the sentence level. Oral presentation at the Annual Conference of the Association for the Scientific Study of Consciousness, Barcelona, Spain.
8. **Ganor-Stern, D.**, Siegler, Robert S. (November, 2004). The Development of Computation Estimation Skills. Poster presentation at the 45th annual meeting of the Psychomic society, Minneapolis, MN.
9. **Ganor-Stern, D.**, Tzelgov, J. (November, 2006). Automaticity and Two-Digit Numbers. Poster presentation at the 47th annual meeting of the Psychomic society, Houston, TX.
10. **Ganor-Stern, D.**, Kessler, Y., & Tzelgov, J. (August, 2007). Working Memory for 2-Digit numbers. Poster presentation at the 15th meeting of the European Society for Cognitive Psychology, Marsellies, France.
11. **Ganor-Stern, D.**, & Tzelgov, J., (September, 2007). Across-notation automatic processing. Poster presentation at the NUMBRA summer school, Santorini, Greece.
12. **Ganor-Stern, D.**, Pinhas, M., DeGarcea, S., & Tzelgov, J., (January, 2009). Processing two-digit numbers: The limits of automaticity. Poster presentation at the European Workshop on Cognitive Neuropsychology, Bressanone, Italy.
13. **Ganor-Stern, D.**, Pinhas, M., Kallai, A., & Tzelgov, J. (September, 2009). Exploring the representation of fractions and negative numbers. Oral presentation at the 16th meeting of the European Society for Cognitive Psychology, Krakow, Poland.
14. Ben-Meir, S., **Ganor-Stern, D.**, & Tzelgov, J. (September, 2009). Automatic Numerical Processing in Sequential Presentation. Poster presentation at the 16th meeting of the European Society for Cognitive Psychology, Krakow, Poland.
15. **Ganor-Stern, D.** (April, 2010). Context effects on the representation of unit fractions. Processing Fractions and Negative Numbers. Invited presentation at the joint conference of EPS and SEPEX, Granada, Spain.

16. Ben-Meir, S., **Ganor-Stern, D.**, & Tzelgov, J. (November, 2010). The association between magnitude and temporal order in automatic and intentional processing. Poster presentation at the 51st. annual meeting of the Psychomic society, St. Louis, MI.
17. **Ganor-Stern, D.** (April, 2011). An overview of research on the numbers beyond the first decade. Invited presentation at research workshop of the Israel Science foundation on "Typical and atypical neurocognitive aspects of numerical processing", Israel.

Reports:

1. **Ganor-Stern, D.** (February, 1996). Writing assessment - Literature review. Research Report number 214. National Institute for Testing & Evaluation, Jerusalem, Israel (in Hebrew).
2. **Ganor-Stern, D.**, Goldsmith, C. (July, 1996). Description of the Ministry of Health certification testing for nurses and recommendations for change. Technical Report number 58. National Institute for Testing & Evaluation, Jerusalem, Israel (in Hebrew).

Seminar Presentations at universities and institutions

1. 2002, Ben Gurion University of the Negev
2. 2004, University of Pittsburgh, PA, USA.
3. 2005, Tel-Aviv University, Israel.
4. 2006, National Institute for Testing and Evaluation, Israel.

7. Present academic activities

Papers in preparation:

1. **Ganor-Stern, D.** & Berger A. (in preparation). Investigating the processing of unit fractions: an event related potential study.
2. **Ganor-Stern, D.**, Ben-Simon A. Individual differences in the mapping of number to space (in preparation).
3. **Ganor-Stern, D.**, A developmental look at the representation of unit fractions (in preparation).
4. **Ganor-Stern, D.**, Developmental dyscalculia and computation estimation skills. (in preparation).

Ad hoc reviewer for the following journals:

Cognition

Experimental Psychology

Journal of Experimental Child Psychology

Quarterly Journal of Experimental Psychology

Canadian Journal of Experimental Psychology

Journal of Experimental Psychology: Human Perception and Performance