

# TOVA MICHALSKY

## Contact Information:

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Address: Department of Education, Teacher Education  
Graduate School of Education  
Bar-Ilan University  
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Ramat Gan, Israel 52900

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## Education:

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2003 Doctor of Philosophy  
Bar-Ilan University,  
Dissertation: *The Effects of Metacognitive Guidance within in Asynchronous Learning Networks on Inquiry Learning Processes*

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1978 Master of Science-Microbiology  
Bar-Ilan University

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1975 Bachelor of Biology  
Bar-Ilan University

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## Research Interests:

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1. Scientific Literacy
2. Developing students SRL
3. Developing teachers TPCK (Technological Pedagogical Content Knowledge)
4. Developing teachers SRL professional vision.

### **Academic Affiliations/Appointments:**

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2008-present	Senior Lecturer, Department of Teaching and Learning Education, Graduate School of Education, Bar-Ilan University.
2009-20012	Academic Head of a prestigious Ministry of Education program at Bar Ilan University for retraining hi-tech academicians to work as biology educators.
2008-2010	Head for Teacher Professional Development of high-order thinking and teaching SRL in school teachers.
2005-2009	Lecturer, Teaching and Learning Education, Graduate School of Education, Bar-Ilan University.
2003-2005	Adjunct Lecturer, Department of Educational Administration, School of Education, Hebrew University of Jerusalem

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### **Courses Taught/Teaching Experience:**

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<i>Teaching Self-regulated Learning</i>	Undergraduate Course
<i>Inquiry Learning</i>	Undergraduate Course
<i>Teaching Gifted Students</i>	Undergraduate Course
<i>Developing TPCK</i>	Undergraduate Course
<i>High-Order Thinking Skills.</i>	Graduate Course

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### **Professional Service:**

#### ***Administrative Appointments***

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2014-present	Member of the Bar-Ilan Rectors' Commission, for Advancing Teaching and Learning.
2010-2014	Chairperson for the Commission on Enhancing Biology Education in Israel
2013-2015	Head of Bar-Ilan University Teacher Education, PDS (Professional Development School) of Preservice Practice.

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#### ***Administrative Appointments Outside the University***

2010-present	External Evaluator, The National Council for High School Education, PISA Assessments.
2008-present	Leadership Team of the Government Education on Learning Science with Technology.

#### ***Journal Manuscript Reviewer***

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2009-present *Science Education*  
*Teaching and Teacher Education*  
*Metacognition and Learning*  
*European Journal of Teacher Education*

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***Conference Presentation Reviewer***

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2008-present American Education Research Association – Annual Meeting  
European Association for Research on Learning and Instruction– Annual Meeting

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***Internal and External Reviewer for Doctoral Proposals and Dissertations***

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2010-present Chief Scientist of Ministry of Education  
Bar-Ilan University  
Tel-Aviv University  
Haifa University  
Ben-Gurion University

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***Editorial Board Member***

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2010-present *Science Education*  
2010-present *Teaching and Teacher Education*

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***Association Memberships***

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2007-present American Educational Research Association  
University Council for Educational Administration

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2009-present European Association for Research on Learning and Instruction

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***Organization of Academic Conferences/Programs***

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2015 March Co-Chair, An International Workshop – Promoting Self-Regulated Learning among Preservice and In-Service Teachers.

ISF - Israeli Science Foundation

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2011 Jun Chair, Science Education Conference – Bar-Ilan University

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2009 Oct Chair, Organizing Committee, Annual Academic Conference, School of Education, Bar-Ilan University

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## LIST OF PUBLICATIONS

**Tova Michalsky**

Peer-Reviewed Refereed Publications

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### Articles

1. Michalsky, T. (in press). Developing and field-testing a measure of preservice video analysis. *Journal of Educational Psychology*.
2. Shaked, H., Schechter, C., & **Michalsky, T.** (In press). Collaborative learning from personal cases in a principal preparation programme. *International Journal of Leadership in Education*.
3. **Michalsky, T.**, & Kramarski, B. (2015). Prompting reflections of preservice teachers: Integrating self-regulation for TPCCK in web-based learning. *Teachers College Record*.
4. **Michalsky, T.** (2014). Developing the SRL-PV assessment scheme: Preservice teachers' professional vision for teaching self-regulated learning. *Studies in Educational Evaluation*, <http://dx.doi.org/10.1016/j.stueduc.2014.05.003>.
5. Schechter, C. & **Michalsky, T.** (2014). Juggling our mindsets: Learning from success as a complementary instructional framework in teacher education. *Teachers College Record*, 116 (2), 48pp.  
<http://www.tcrecord.org/library>. ID Number: 17342, Date Accessed: 7/9/2014 5:41:32 PM.
6. Iluz, S., **Michalsky, T.**, & Kramarski, B. (2013). Developing and assessing the life challenges teacher Inventory for teachers' professional growth. *Studies in Educational Evaluation*, 38, 44-54.

7. **Michalsky, T.** (2013) Integrating skills and wills instruction in self-regulated science text reading for secondary students. *International Journal of Science Education*, 13(11), 1846 -1873.
8. **Michalsky, T., & Schechter, C.** (2013). Preservice teachers' self-regulated learning: Integrating learning from problems and learning from successes. *Teaching and Teacher Education*, 30, 60–73.
9. **Michalsky, T.** (2012). Shaping self-regulation in science teachers' professional growth: Inquiry skills. *Science Education*, 96(6), 1106–1133.
10. **Kramarski, B., & Michalsky, T.** (2010). Preparing preservice teachers for self-regulated learning in the context of technological pedagogical content knowledge. *Learning and Instruction*, 20, 434-447.
11. **Kramarski, B., & Michalsky, T.** (2009). Investigating preservice teachers' professional growth in self-regulated learning environments. *Journal of Educational Psychology*, 101 (1), 161-175.
12. **Kramarski, B., & Michalsky, T.** (2009). Three metacognitive approaches to training preservice teachers in different learning phases of technological pedagogical content knowledge [Special issue]. *Educational Research and Evaluation: An International Journal on Theory and Practice*, 15(5), 465-490.
13. **Michalsky, T., Mevarech, Z. R., & Haibi, L.** (2009). Elementary school children reading science texts: Effects of metacognitive instruction. *Journal of Educational Research*, 102(5), 363-374.
14. **Michalsky, T., & Kramarski, B.** (2008). Preservice teachers' self-regulation of learning: Effects of e-learning environment and beliefs about learning and teaching.

*Megamot, 4, 660-685.*

15. Mevarech, Z. R., Zion, M., & **Michalsky, T.** (2007). Peer assisted learning via face-to-face or a-synchronic learning network embedded with or without metacognitive guidance: The effects on higher and lower achieving students. *Journal of Cognitive Education and Psychology, 4*(3), 456-471.
16. **Michalsky, T.**, Zion, M., & Mevarech, Z. R. (2007). Developing students' metacognitive awareness in asynchronous learning networks in comparison to face-to-face discussion groups. *Journal of Educational Computing Research, 36*, 421-450.
17. Zion, M., **Michalsky, T.**, & Mevarech, Z. R. (2005). The effects of metacognitive instruction embedded within an asynchronous learning network on scientific inquiry skills. *International Journal of Science Education, 27*, 957-958.
18. Aboud, M., **Michalsky, T.**, Nitzan, Y., & Salzberg, S. (1980). Enhancement of cellular protein synthesis sensitivity to diphtheria toxin by interferon. *Infection and Immunity, 28*(1), 11-16.
19. Nitzan, Y., & **Michalsky, T.** (1980) Simple procedure for purification of diphtheria toxin and separation of its fragments by hydrophobic chromatography, *Analytical Biochemistry, 109*, 71-75.

## **Books**

1. **Michalsky, T.**, & Schechter, C. (2017) Self-regulated learning: Conceptualization, contribution, and empirically based models for teaching and learning. NSSE (National Society for the Study of Education) Yearbook Volume, Teachers College (TC), Columbia University, New York, U.S.

2. **Michalsky, T.** (1997). *Bio-Excel: Computer applications in teaching science*. Tel-Aviv: Hod-Ami (Hebrew).
3. **Michalsky, T.** (1997). *Guidebook for electronic - sheet Excel 5 applications in teaching science for high school*. Tel-Aviv: The Open University (Hebrew).
4. **Michalsky, T.** (1996) *Guidebook for electronic – sheet Astound 2 applications in teaching science for high school*. Tel-Aviv: The Open University (Hebrew).
5. **Michalsky, T.** (1996). *Guidebook for electronic – sheet PowerPoint 4 applications in teaching science for high school*. Tel-Aviv: The Open University. (Hebrew).
6. **Michalsky, T.** (1996). *Guidebook for electronic – sheet Word 6 applications in teaching science for high school*. Tel-Aviv: The Open University (Hebrew).

## Chapters in Books

1. **Michalsky, T., & Kramarski, B.** (in press). Investigating teaching and learning perceptions of teachers in a self-regulated learning program for attaining TPCK. In C. Angelie, & N. Valanides (Eds.), *Understanding technological pedagogical content knowledge (TPCK)*. Cyprus: Springer.
2. **Kramarski, B., & Michalsky, T.** (2013). *Student and teacher perspectives on IMPROVE self-regulation prompts in web-based learning*. In R. Azevedo, & V. Aleven (Eds.), *International handbook of metacognition and learning technologies* (pp. 35-51). New York: Springer.
3. **Michalsky, T., & Kramarski, B.** (2008). Complementary perspective for the evaluation of student-teachers' pedagogical SRL in metacognitive hypermedia environment. In I. Roll, & V. Aleven (Eds.), *Measuring metacognition and self-regulated learning in educational technologies (ITS)* (pp. 31-40). Montreal, Canada: Springer
4. **Michalsky, T., & Kramarski, B.** (2008). *Preparing preservice teachers for professional education within a metacognitive computer-based learning environment*. In N. Schwartz, J. Zumbach, T. Seufert, & L. Kester (Eds.), *Beyond knowledge: The legacy of competence meaningful computer-based learning environments* (pp. 93-101). U.K: Springer.

## **ARTICLES PUBLISHED IN REFEREED CONFERENCE PROCEEDINGS**

**1. Michalsky, T., & Kramarski, B. (2008).** Complementary perspective for the evaluation of student teachers' pedagogical SRL in metacognitive hypermedia environment. In I. Roll, & V. Aleven (Eds.), *Measuring metacognition and self-regulated learning in educational technologies* (ITS). Montreal, Canada. pp. 31-40.

<http://www.andrew.cmu.edu/user/iroll/workshops/its08/papers/Michalsky.pdf>.

**2. Kramarski, B., & Michalsky, T. (2008).** Preparing pre-service teachers for **professional education within a metacognitive computer-based learning environment**. In N. Schwartz, J. Zumbach, T. Seufert, & L. Kester (Eds.), *Beyond knowledge: The legacy of competence meaningful computer-based learning environments* (pp. 93-101). Salzburg: Springer



## PAPERS PRESENTED AT SCIENTIFIC CONFERENCES

- Michalsky, T.** (2016, April). *Integrating Video Analysis of Teacher and Student Behaviors to Promote Pre-Service Teachers Teaching Self-Regulated Learning*. Paper presentation at the Annual Meeting of the American Educational Research Association, Washington, DC.
- Michalsky, T., & Schechter, C.** (2015, April). *Teaching self-regulated learning: Preservice teachers integrating learning from problems and learning from successes*. Paper presentation at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Michalsky, T.** (2014, June). The effects of powerful technological learning environments on preservice teachers' self-regulated learning (SRL). Paper presented at the EARLI special interest group 11, Fraunchiemsee, Germany.
- Kramarski, B., & **Michalsky, T.** (2014, April). How does an emotional self-regulation program promote mathematical problem solving in young Students? Paper presented at the AERA Conference, Philadelphia, USA.
- Michalsky, T., & Kramarski, B.** (2013, April). Leveraging teachers' technology pedagogical content knowledge by using a self-regulated learning program: The TPCK-SRL model. Paper presented at the AERA Conference, San Francisco, USA.
- Michalsky, T. (2013, August). Using videotaped teaching practice to promote SRL among pre-service teachers. Symposium conducted at the 15th Biennial Conference, Munich, Germany.
- Michalsky, T. (2013, August). Using videotaped teaching practice to promote SRL among pre-service teachers. Symposium conducted at the 15th Biennial Conference, Munich, Germany.
- Michalsky, T. (2011, September). Preparing Teachers for Self-Regulated Learning to Empower TPCK. Paper presented at the AERA Conference, Denver, USA.
- Michalsky, T. (2011, July). Promoting Pre-service Teachers' Capacity to Teach Self-Regulated Learning through Analysis of Both Teachers' and Students' Behavior. International Association for Cognitive Education and Psychology. (IACEP) Boston, USA.
- Michalsky, T., & Mevarech, Z, R.** (2010, May). The effects of metacognitive instruction embedded within inquiry laboratory work on scientific

inquiry skills. Paper presented at the 4rd Biennial Meeting of the EARLI Special Interest Group 16, Munster, Germany.

Kramarski, B., & **Michalsky, T.** (2010, May). Three training approaches to promote teachers' SRL in technology environment. Symposium conducted at the 4rd Biennial Meeting of the EARLI Special Interest Group 16, Munster, Germany.

Kramarski, B., & **Michalsky, T.** (2009, August). Prompting self-reflection differentially in a computer-based learning pedagogical context. Symposium to be conducted at the 13th Biennial Conference, EARLI, Amsterdam, Netherlands.

Kramarski, B., & **Michalsky, T.** (2008, September). Preparing pre-service teachers for professional education within a metacognitive computer-based learning environment. Paper presented at the EARLI SIG 6 & 7 Learning and Instruction with Computers in cooperation with SIG 6 Instructional Design, Salzburg, Austria.

Kramarski, B., & **Michalsky, T.** (2008, June). Complementary perspective for the evaluation of student teachers' pedagogical SRL in metacognitive hypermedia environment. Paper presented at the 3rd Workshop on Meta-Cognition and Self-Regulated Learning in Educational Technologies, ITS, Montreal.

Kramarski, B., & **Michalsky, T.** (2008, May). Effects of online metacognitive engagement on pre-service teachers' self-regulated learning in pedagogical context. Symposium conducted at the 3rd Biennial Meeting of the EARLI Special Interest Group 16, Ioannina, Greece.

Kramarski, B., & **Michalsky, T.** (2007, August-September). Preparing pre-service teachers online for self-regulated learning. Paper presented at the 12th Biennial Conference, EARLI, Budapest, Hungary.

**Michalsky, T.**, & Kramarski, B. (2007, August-September). How can different mentoring styles promote reading and mathematical literacy of mentor students? Paper presented at the 12th Biennial Conference, EARLI, Budapest, Hungary.

## Selected Invited Presentations:

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Michalsky, T. (2014, January). *Developing teachers SRL*. Munich, Germany.

Michalsky, T. (2013, January). *Teachers reflection and teaching SRL*. A seminar presented for Israeli government education.

Michalsky, T. (2012, November). *Learning with technology*. A seminar presented for the Israeli center learning with technology-MATAACH.

## Student Evaluations:

- Average scores of 4.7 (out of 5) for teaching in the 2009-2010 academic year.
- Average scores of 4.71 (out of 5) for teaching in the 2013-2014 academic year.

## Dissertation and Graduate Advising: Primary Ph.D & M.A Research Dissertation Chair

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Completed PhD	Chava Sason Ph.D	<i>Developing various types of self-regulated learning to promote scientific literacy. * Winner of the University's Ph.D Award</i>
Completed PhD	Galit Shabtay	<i>The connection between analyzing pedagogical events in different conditions and Self-regulated learning (SRL) instruction.</i>
Current PhD	Itay Nachom	<i>Developing students SRL with robots.</i>
Current PhD	Gily Choen	<i>Developing students' creative thinking under different SRL Prompts</i>
Current MA	Danit Ben Haron	<i>The Effects of Powerful Technological Learning Environments on Preservice Teachers' Self-Regulated Learning (SRL), Technological Pedagogical Content Knowledge (TPCK) and Self-Efficacy Beliefs.</i>
2014 MA	Meir Sendic	<i>Student Teacher Interaction in Videotaped Pedagogical Situations Analysis' Impact on SRL Fostering Teaching</i>
2013 MA	Yaron Amiga	<i>Fostering Self-Regulation In Problem Solving Among Students Of Economics</i>
2012 MA	Nama Zadok	<i>The Impact of Metacognitive support in the Procedural and Conceptual Processes in scientific inquiry ,on research skills , Knowledge and Metacognitive Knowledge, among Higher and Lower Achieving Students</i>
2012 MA	Liora Haiibi	<i>The influence of metacognitive support during different levels of studying on scientific developmental thinking skilis of fourth year students</i>

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2012 MA	Ravit Weinberger	<i>Teacher's professionalism and its connection with the school administration's professionalism in pedagogical beliefs and pedagogical knowledge.</i>
2009 MA	Kern Maymon	<i>The influence of task interpretation training on preservice teachers' tasks achievements, pedagogical self efficacy and learning motivation.</i>

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