

CURRICULUM VITAE
TZUR M. KARELITZ
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Education

- 2004 PhD, Department of Psychology, Division of Quantitative Psychology, University of Illinois at Urbana – Champaign; Champaign, IL
Thesis Title: Ordered Category Attribute Coding for Cognitive Assessment.
 Advisor: Jeffrey Douglas, PhD.
- 2003 MS, Department of Statistics, University of Illinois at Urbana – Champaign; Champaign, IL
- 2001 MA, Department of Psychology, University of Illinois at Urbana – Champaign; Champaign, IL.
Thesis Title: Evaluating Methods of Translating One Person's Verbal Probabilities to Another's.
 Advisor: David Budescu, PhD.
- 1998 BA, University of Tel-Aviv, Ramat-Aviv, Israel
- Major: Psychology (Magna Cum Laude)
 - Minor: Business Management

Awards and Fellowships

- Jun. 2003 ETS travel award for the Psychometric Society.
- Apr. 2003 Nancy Hirschberg Memorial Award for outstanding graduate research, Department of Psychology, University of Illinois.
- Nov. 2002 Graduate School Travel Grant, University of Illinois.
- Nov. 2002 Psychology Department Travel Grant, University of Illinois.
- Aug. 2001–May 2002 University Fellowship, University of Illinois.
- Nov. 2001 Graduate School Travel Grant, University of Illinois.
- Nov. 2001 Psychology Department Travel Grant, University of Illinois.
- Nov. 2000 Psychology Department Travel Grant, University of Illinois.
- Jun. 1998 Excellence of academic achievements from the Social Sciences Dean, University of Tel-Aviv, Israel.

Work Experience

- Aug. 2004–present Post-Doctoral Research Fellow, Berkeley Evaluation and Assessment Research Center, University of California, Berkeley
- Supervisor: Mark Wilson.
 - Research and development of the Desired Results Developmental Profile assessment system, user interfaces, training material and content standards.
 - Research and development of an embedded assessment system for statistical reasoning curriculum in middle schools (with Vanderbilt University).

- Aug. 2003–Jul. 2004 Graduate Assistant, Educational Testing Service External Diagnostic Research Group, University of Illinois.
- Supervisor: Bill Stout.
 - Development and validation of remedial procedures for the Fusion model and its application to large-scale testing.
 - Investigating the nature of cognitive attributes and their relation to test items.
- Feb. 2002–Aug. 2003 Statistical Consultant.
- Supervisor: Noreen Sugrue, College of Nursing, University of Illinois.
 - Developing a research plan for a large scale study sponsored by an NIH grant.
 - Data analysis.
- Aug. 1999–May 2003 Graduate Assistant, Department of Psychology, University of Illinois.
- Supervisors: David Budescu and Thomas Wallsten.
 - Basic and applied research leading to a Linguistic Probability Translator (LPT).
 - Theoretical and practical development of the LPT, research design, programming, data collection, data analysis and lab administration.

Internships

- Jun. 2002- Jul. 2002 Research and Development Division of Educational Testing Services. Princeton, NJ.
- Supervisors: Valerie Shute and Aurora Graf.
 - Project title: “How to Evaluate Expertise”.
 - Developing an researching a computer application to cull knowledge from subject-matter experts.

Teaching Experience

- Sep. 2006 Teaching undergraduate and graduate courses at the Department of Educational Research, Measurement, and Evaluation, Boston College, Lynch School of Education.
- Summer 2003 Instructor, Introduction to Statistics, University of Illinois.
- 1998-1999 Mentoring and teaching underprivileged youth in “Michael Project”- Maximizing Personal Achievement to Excellence, Jerusalem, Israel.
- 1996-1998 Teaching and writing materials for a pre-academic preparation institute, Tel-Aviv, Israel.
- 1995-1996 Research and curriculum development in an organizational consulting and human engineering company, Raanana, Israel.
- 1991-1994 Teaching advanced first-aid courses in schools and organizations, Israel.

Military Service

- 1991-1994 Israeli Defense Forces, Military School of Army Medicine- teaching, administration, medical and educational research and curriculum development.

Professional Skills

General skills in statistics, computing and programming.

- Specific expertise and interests: educational measurement, diagnostic and formative assessment, item and curriculum development, psychometrics, standards and accountability, judgment and decision making, latent variables, clustering and classification, multivariate categorical data analysis, research design, computerized experiments, simulation studies, database management and data display.
- Programming languages: Visual Basic, MATLAB, and FORTRAN.
- Statistical software: SAS, S-Plus, R, SPSS, SYSTAT, STATA, Conquest, and GradeMap.
- Other: Access, Excel, Word, PowerPoint, LaTeX, Photoshop.

Papers in Refereed Journals

Karelitz, T.M., & Budescu D.V. – Translating Verbal Uncertainties from One Person to Another, Between and Within Languages. *Journal of Experimental Psychology: Applied*. Vol 10, Mar 2004, 25-41.

Budescu D.V., Karelitz, T.M., & Wallsten, T.S. – Determining the Directionality of Probability Words from their Membership Functions. *Journal of Behavioral Decision Making*. Vol 16(3), Jul 2003, 16, 159-180.

Budescu D.V., Rantilla A.K., Yu H., & Karelitz T.M. – The Effects of Asymmetry Among Advisors on the Aggregation of Their Opinions. *Organizational Behavior & Human Decision Processes*. Vol 90(1) Jan 2003, 178-194.

Chapters in Books or Refereed Proceedings

Budescu, D.V., & Karelitz, T.M. – Inter-Personal Communication of Precise and Imprecise Subjective Probabilities. In J.M. Bernard, T. Seidenfeld, & M. Zaffalon (Eds.) Proceedings of the Third International Symposium on Imprecise Probabilities and Their Applications (ISIPTA' 03). Carleton Scientific, 2003, 91-105.

Karelitz T.M., Dhami M.K., Budescu D.V., & Wallsten T.S. – Toward a Universal Translator of Verbal Probabilities. Proceedings of The 15th International Florida Artificial Intelligence Research Society Conference, May 2002, 498-502.

Papers in Preparation

Karelitz, T.M. – Ordered Category Attribute Coding for Cognitive Assessment.

Karelitz, T.M., & Budescu, D.V. – Thinking outside the diagonal: An exploratory framework for evaluating classification agreement.

Karelitz, T.M., Wilson, M.R., & Draney, K.L. – Diagnostic Assessment using Continuous vs. Discrete Ability Models.

Presentations

Posters

Karelitz, T.M. (2004). Ordered Category Attribute Coding Framework for Cognitive Assessment. The 4th Spearman Conference, Philadelphia, PA.

Budescu, D.V., & Karelitz, T.M. (2004). Identifying Cognitive Diagnostic Information in Assessment Models. The 4th Spearman Conference, Philadelphia, PA.

Karelitz, T.M., & Budescu, D.V. (2002). Reducing Errors in Multilingual Communication of Uncertainties. The Society of Judgment and Decision Making annual meeting, Kansas City, MO.

Karelitz, T.M., & Budescu D.V. (2001). Evaluating Methods of Translating One Person's Verbal Probabilities to Another. The Subjective Probability, Utility and Decision Making 18th annual meeting, Amsterdam, The Netherlands.

Karelitz, T.M., Budescu D.V., & Wallsten, T.S. (2000). Validation of a New Technique for Eliciting Membership Functions of Probability Phrases. The Society of Judgment and Decision Making annual meeting, New-Orleans, LA.

Talks

Karelitz, T.M., Parrish, D.M., & Yamada, H. (2006) Supporting Developmental Progress from Birth to 12 Years: Standards-Based Observational Assessments Informing Practice in California. AERA 2006, American Education Research Association Annual Meeting in San Francisco, CA.

Burmester, K., Zehng, X., Karelitz, T.M., & Wilson, M.R. (2006) Measuring Statistical Reasoning: Development of an Assessment System for Data Modeling. AERA 2006, American Education Research Association Annual Meeting in San Francisco, CA.

Karelitz, T.M., Wilson, M.R., & Draney, K.L. (2006). Diagnostic Assessment using Continuous vs. Discrete Ability Models. NCME 2006 , National Council on Measurement in Education Annual Meeting in San Francisco, CA.

Yamada, H., Draney, K., Karelitz, T., Moore, S., & Wilson, M. (2006). Comparison of dimension-aligning techniques in a multidimensional IRT context. IOMW 2006, The 13th International Objective Measurement Workshops, Berkeley, CA

Karelitz, T.M., Wilson, M.R., & Draney, K.L. (2005). Linking Continuous and Discrete Ability Models Using the Saltus Assessment Model. IMPS 2005, The 70th Annual Meeting of the Psychometric Society. Tilburg, Netherlands.

Karelitz, T.M., Zehng, X., Burmester, K., & Wilson, M.R. (2005). Constructing Data, Modeling Worlds: Collaborative Investigation of Statistical Reasoning- Assessment System. NCTM 2005, National Council of Teachers of Mathematics, research pre session, Anaheim, CA.

Karelitz, T.M. (2004). Ordered Category Attribute Coding Framework for Cognitive Assessment. IMPS 2004, The 69th Annual Meeting of the Psychometric Society. Monterey, CA.

Budescu, D.V., & Karelitz, T.M. (2003). Inter-personal Communication of Precise and Imprecise Subjective Probabilities. International Symposium on Imprecise Probabilities and Their Applications. Lugano, Switzerland.

Karelitz T.M., Dhimi M.K., Budescu D.V., & Wallsten T.S. (2002). Toward a Universal Translator of Verbal Probabilities. The 15th International Florida Artificial Intelligence Research Society Conference, Pensacola Beach, FL.

Budescu D.V., Karelitz T.M., & Wallsten T.S. (2002). Reducing Communication Errors with Verbal Probabilities. The Israeli Cognitive Psychology, Decision and Judgment conference, Jerusalem, Israel.

Budescu D.V., Rantilla, A.K., Karelitz, T.M., & Yu, H. (2002). Aggregation of Probability Judgments from Asymmetric Sources. The 16th triennial conference of the International Federation of Operational Research Societies, Edinburgh, Scotland.

Budescu D.V., Rantilla, A.K., Karelitz, T.M., & Yu, H. (2002). Confidence in Aggregation of Opinions from Multiple Sources. Meeting on Information Sampling as a Key to Understanding Adaptive Cognition in an Uncertain Environment, Heidelberg, FRG.

Budescu D.V., Karelitz T.M. & Wallsten T.S., (2002). Reducing Communication Errors with Verbal Probabilities. The 8th Behavioral Decision Research in Management Conference, Chicago, IL.

Karelitz, T.M., & Budescu D.V. (2001). Evaluating Methods of Translating One Person's Verbal Probabilities to Another. The Society of Judgment and Decision Making annual meeting, Orlando, FL.

Budescu D.V., Rantilla A.K., Yu H., & Karelitz T.M. (2001). Aggregation of Probability Judgments from Asymmetric Sources. The Subjective Probability, Utility and Decision Making 18th annual meeting, Amsterdam, The Netherlands.

Budescu D.V., Karelitz, T.M., & Wallsten, T.S. (2000). Predicting the Directionality of Probability Words from their Membership Functions. The 41st annual meeting of the Psychonomic Society, New-Orleans, LA.

Professional Memberships

- Psychometric society.
- American Educational Research Association.
- National Council on Measurement in Education.
- Society for Judgment and Decision Making.
- American Statistical Association.

Ad hoc Reviews

- Measurement.
- Acta Psychologica.
- Organizational Behavior and Human Decision Processes.
- Journal of the American Statistical Association.
- Journal of Behavioral Decision Making.

References

Prof. David Budescu

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