

Curriculum Vitae

Mario Fifić

Mario Fifić, Ph.D.
Grand Valley State University
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Research: <http://faculty.gvsu.edu/fificm/index.html>

Positions Held

- 2017- Present Associate Professor Psychology Department
Grand Valley State University
- 2011-2017 Assistant Professor Psychology Department
Grand Valley State University
- 2008-2011 Research scientist, Max Planck Institute for Human Development
Center for Adaptive Behavior and Cognition, Berlin
- 2006-2008 Post-Doctoral Research, Robert Nosofsky's Lab
Indiana University

Grants awards and fellowships

- 2014 NCKU (National Cheng Kung University, Taiwan) 2014 top-notch project proposal: "Modeling cultural differences in face processing" PI: Yang Cheng-Ta, **Co-PI: Mario Fific**, James Townsend, Hu Jon-Fan, and Tseng Yuan-Chi, [\$325,000]
- 2013 NSF (REU Supplement - SES-1353989) **PI: Mario Fific**, Research Experience for Undergraduates: 2014-2015, \$12,000
- 2012 NSF (SES-1156681) **PI: Mario Fific**, Title "Stopping Rule Selection Theory, 2012-2016, \$111,743
- 2012 CSCE: Grant-In-Aid Center for Scholarly and Creative Excellence, 2012, \$3000
- 2000, 2001, 2002, 2003, 2004, Indiana University Cognitive Science Program Summer research Fellowship \$5000 each

Investigator on following grants

NIMH (RO1 MH57717-04A1) to Dr. James Townsend
MH48494 from the National Institute of Mental Health to Dr. Robert
Nosofsky

Education

Ph.D. Joint Ph.D. in Cognitive Psychology and Cognitive Science, with
Certificate in Mathematical Modeling 2000-2005
A member of James Townsend's laboratory;
Doctoral candidate for joint Ph.D. in Cognitive Psychology and
Cognitive Science, with Certificate in Mathematical Modeling,
Indiana University; Bloomington, Indiana

MA Psychology 1994
Finished all relevant courses, did not defend MA work
Later published in LEP reports (1999)
Department of Psychology
Faculty of Philosophy
University of Belgrade, Serbia and Montenegro

BA Psychology 1991 - 1994
Department of Psychology
Faculty of Philosophy
University of Belgrade, Serbia and Montenegro

Professional Societies

Society for Mathematical Psychology
Association for Psychological Science
Society for Judgment and Decision Making
The Psychonomic Society
American Psychology Association
The Cognitive Science Society

Professional Service

Referee (ad hoc)

Perception and Psychophysics,
Journal of Mathematical Psychology
Journal of Experimental Psychology: Human Perception and Performance

Psychological Review
Acta Psychologica
Journal of Business Research on Decision Making
Psychonomic Bulletin & Review
Frontiers
Psychological Bulletin
Decision
Plos One
Cognitive Research Principles and Implications

Grant reviewer (ad hoc)

U.S. National Science Foundation; NSF Merit Review

Organizational committee

Cognitive Neuroscience Club Of Grand Valley State University, Faculty Advisor,

Publications

- Yang, C.-T., Fific, M., Chang, T.-Y., & Little, D.R. (in press). Systems factorial technology provides new insights on the other-race effect. *Psychonomic Bulletin & Review*.
- Haupt, J. W. & Fific, M. (2017). A hierarchical Bayesian approach to distinguishing serial and parallel processing. *Journal of Mathematical Psychology*, 79, 13-22.
- Fific, M., Little, D. R. (2017). Stretching Mental Processes: An Overview of and Guide for SFT Applications. To appear in D. R. Little, N. Altieri, M. Fific & C-T. Yang (Eds.). *Systems Factorial Technology: A Theory Driven Methodology for the Identification of Perceptual and Cognitive Mechanisms*. Elsevier.
- Altieri, N., Fific, M., Little, D. R. & Yang, C-T. (2017). Historical foundations and a tutorial introduction to Systems Factorial Technology. To appear in D. R. Little, N. Altieri, M. Fific & C-T. Yang (Eds.). *Systems Factorial Technology: A Theory Driven Methodology for the Identification of Perceptual and Cognitive Mechanisms*. Elsevier.
- Fific, M. (2016) Simple Factorial Tweezers for detecting delicate serial and parallel processes. In “Mathematical Models of Perception and Cognition: Essays in Honor of James T. Townsend” (J. W. Haupt & L. M. Blaha, Eds), p. 77-152. New York: *Psychology Press*.
- Little, D. R., Eidels, A., Fific, M., & Wang, T. (2015). Understanding the influence of distractors on workload capacity. *Journal of Mathematical Psychology*, 68-69, 25-36. doi:10.1016/j.jmp.2015.08.005
- Fific, M. (2014) Double jeopardy in inferring cognitive processes. *Frontiers Psychology*. 5:1130. doi: 10.3389/fpsyg.2014.01130
- Fific, M. & Gigerenzer, G. (2014). Are two interviewers better than one? *Journal of Business Research*, 67(8), 1771-1779. doi:10.1016/j.jbusres.2014.03.003

- Yang, H., Fific, M., Townsend, J. T. (2014). Survivor Interaction Contrast Wiggle Predictions of Parallel and Serial Models for an Arbitrary Number of Processes. *Journal of mathematical psychology*. (59). p.82 – 94.
- Fific M., & Buckmann M. (2013). Stopping Rule Selection (SRS) Theory Applied to Deferred Decision Making. In M. Knauff, M., Pauen, N., Sebanz, & I. Wachsmuth (Eds.) *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 2273- 2278). Austin TX: Cognitive Science Society.
- Nosofsky, R.M., Little, D.R., Donkin, C., & Fific, M. (2011). Short-term memory scanning viewed as exemplar-based categorization. *Psychological Review*.
- Fific, M., & Townsend, J. T. (2010). Information-processing alternatives to holistic perception: Identifying the mechanisms of secondary-level holism within a categorization paradigm. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 36, 1290-1313.
- Gaissmaier, W., Fifić, M., & Rieskamp, J. (2011). Analyzing response times to understand decision processes. In M. Schulte-Mecklenbeck, A. Kühberger & R. Ranyard (Eds.), *A Handbook of Process Tracing Methods for Decision Making*. (pp. 141-163) New York: Taylor & Francis.
- Fific, M., Little, D. R., & Nosofsky, R. M. (2010). Logical-rule models of classification response times: A synthesis of mental-architecture, random-walk, and decision-bound approaches. *Psychological Review*, 117, 309-348.
- Fific, M., Nosofsky, R. M., & Townsend, J. T. (2008). Information-processing architectures in multidimensional classification: A validation test of the systems factorial technology. *Journal of Experimental Psychology: Human Perception and Performance*, 34(2), 356-375.
- Fific, M., Townsend J. T. & Eidels A. (2008). Studying visual search using systems factorial methodology with target-distractor similarity as the factor. *Perception & Psychophysics*.
- Townsend, J. T., Fifić, M., & Neufeld, R. W. J. (2007). Assessment of mental architecture in clinical/cognitive research. In T. A. Treat, R. R. Bootzin & T. B. Baker (Eds.), *Psychological clinical science: Papers in honor of richard M. McFall*. (pp. 223-258). New York, NY, US: Psychology Press.
- Fific, M., (2006). Emerging holistic properties at face value: Assessing characteristics of face perception. *Unpublished Ph.D. thesis*.
- Townsend, J. T., Fific M. (2004). Parallel versus serial processing and individual differences in high-speed search in human memory. *Perception & Psychophysics*. Vol 66(6), pp. 953-962.
- Fific M., (2004). Temporal factors in short-term memory search, *Psihološka istraživanja*, 14, 233-300.
- Townsend, J. T., Fific M., Assadi, A. (2003). *General recognition theory and probabilistic perceptual separability on simple cognitive surfaces*. Paper presented at the Fechner Day 2003, Larnaca, Cyprus.
- Fific M., (2002). Dynamics of serial position change in probe-recognition task. *Psihologija*, 2002, Vol. 35 (3-4) 261-285.
- Townsend, J. T., Fific M. (2001). *Representation and process in defining holisms partism: contributions from general recognition theory and stochastic cognitive process theory*. Paper presented at the Fechner Day 2001, Leipzig, Germany.

- Fific M., (1999). Temporal factors in short-term memory search, part I: An introduction. *LEP report, 72.*
- Fific M., (1999). Temporal factors in short-term memory search, part II: Organization of memory and memory search. *LEP report, 73.*
- Fific M., (1999). Temporal factors in short-term memory search, part III: Recognition and reproduction. *LEP report, 74.*
- Fific M., (1998). Selective attention and information processing in short-term memory. *Paper presented at the symposium of Ergonomics, Belgrade 1998, 19-23.*
- Duzdevic N. & Fific M. and Brakus R., (1998). Education of mentally preserved children with cerebral palsy based on the level of their achievements. In monograph: *Cerebral palsy, Belgrade 1998, 209-212.*
- Fific M., (1998). Dynamics of serial position change in probe-recognition task. *LEP report, 64.*
- Fific M., (1997). Determination of stimulus-pair order in short-term memory. *LEP report, 34.*
- Fific M., (1996). Modification of binary response and short-term memory processing. *Psihologija, 29, 2-3, 311-331.*
- Fific M., (1996). Modification of pre-probe delay in the short-term memory recognition task. *Psihologija, 29, 2-3, 331-353.*

Recent Presentations

- Fific, M. (2017) A Race Model for Multiple Stopping Rules in Decision Making. A talk presented at the 58th, annual meeting of Psychonomics, Vancouver, CA.
- Roth, Goralski & Fific (2017) The Effects of Personality-Driven Decision Strategies and Decisiveness in Stopping Rule Evidence Collection. A poster presented at the 58th, annual meeting of Psychonomics, Vancouver, CA.
- Fific, M. (2017) A Race Model for Multiple Stopping Rules in Decision Making. A talk presented at the The 50th Annual Meeting of the Society for Mathematical Psychology, Warwick, UK.
- Fific, M. (2016) Determination of Decision Making Stopping Rules Using the Pattern Analysis. Presented at The 57th Annual Meeting of the Psychonomic Society, Boston MA.[Accepted]
- Bunker, C., Fific, M., Pham, N., & Bulthuis, K. (2016) The Influence of Self-Esteem on Stopping Rule Decision-Making. Presented at The 57th Annual Meeting of the Psychonomic Society, Boston MA.[Accepted]
- Fific M. (2016 July). The Triple-Stopping System For a Sequential Decision Task: The Cast-Net Stopping Rule Model. Invited talk, 2014 Max Planck Center for Adaptive Behavior and Cognition (ABC). Berlin, Germany
- Fific M. (2016 March), The Triple-Stopping System For a Sequential Decision Task: The Cast-Net Stopping Rule Model., Invited talk, 2016 Indiana University Bloomington.
- Bunker, C., Fific, M., Anasara, A., & Pham, N. (2015) Personality-Driven Decision Strategies and Decisiveness in Stopping Evidence Collection. Presented at The 56th Annual Meeting of the Psychonomic Society, Chicago IL.

- Bunker, C., Fific, M. (2015) Personality-Driven Decision Strategies and Decisiveness in Stopping Evidence Collection. Presented at Grand Valley State University Student Psychology Colloquia Series, Allendale MI.
- Fific M., & Buckmann M. (2015). *A Triple-Stopping Threshold System For a Sequential Decision Task: A Cast-Net Stopping Rule Model*. A talk presented at the 37th Subjective Probability, Utility and Decision Making Conference (SPUDM). Budapest, Hungary, Europe.
- Fific M., (2015). *A Triple-Stopping Threshold System For a Sequential Decision Task: A Cast-Net Stopping Rule Model*. Presentation at The Psychology Research Colloquium Series, Grand Valley State University.
- Fific M., & Buckmann M. (2015). *A Triple-Stopping Threshold System For a Sequential Decision Task: A Cast-Net Stopping Rule Model*. A poster presented at the 37th Annual Conference of the Cognitive Science Society. Pasadena, California.
- Fific M. (2015). *Simple Factorial Tweezers for detecting delicate serial and parallel processes*. Presentation at 48th Annual Meeting of the Society of Mathematical Psychology, Newport Beach, California.
- Fific M., (2015). *A Triple-Stopping Threshold System For a Sequential Decision Task: A Cast-Net Stopping Rule Model*. Presentation at Midwest Cognitive Science Conference, Mackinac Island, Michigan.
- Fific M., (2014). *How do we make decision to stop? Stopping Rule Selection (SRS) Theory*, Poster presented at Society for Judgment and Decision Long Beach, California, November 21-24.
- Fific M., M. (2014). *The double jeopardy to infer cognitive processes*. Talk presented at the 2014 Annual Meeting - Psychonomic Society, November 20-23, 2014, Long Beach, California November 14-17.
- Fific M. (2014 September) Keynote talk 2: The Modal Research Design for SFT Application in Face Perception: Conjunctive/Disjunctive-rule Stimulus Structures (AND/OR) and a Novel Signature of Holistic Face Perception: “Snake Wiggle”, presented at 2014 meeting of Theory and Methodology in Configural Perception (TMCP) September 26-28, Tainan, Taiwan.
- Fific M. (2014 September) Keynote talk 1: Identification of Mental Architectures in Face Perception Using the Systems Factorial Technology, presented at 2014 meeting of Theory and Methodology in Configural Perception (TMCP) September 26-28, Tainan, Taiwan.
- Fific M., (2014 August). *A snake wiggle of reaction time functions to indicate holistic perception*. 37th European Conference on Visual Perception, Belgrade 24-28. August, Serbia, 2014. Poster.
- Fific M., & Buckmann M. (2014 July). *How do we make decision to stop? Stopping Rule Selection (SRS) Theory*. Invited talk, 2014 Max Planck Center for Adaptive Rationality (ARC). Berlin, Germany.
- Fific M., (2014, May). *A processing ghost in a tank machine perception*. Presentation at Midwest Cognitive Science Conference, Wright State University, Dayton, Ohio.
- Fific M., (2013). *A Processing Ghost in a Tank Machine*, Invited Talk , Air Force Research Laboratory, Cognitive Lunch Brown Bag, November, 2013, Dayton Ohio.

- Fific M., & Buckmann M. (2013). *Stopping Rule Selection (SRS) Theory Applied to Deferred Decision Making*. Talk presented at the 2013 Psychonomic Society Annual Meeting, Toronto Canada, November 14-17.
- Fific M., & Little D. (2013). *A snake wiggle of reaction time functions to indicate holistic perception*. Presentation at 46th Annual Meeting of the Society of Mathematical Psychology, Potsdam, Germany.
- Fific M., & Buckmann M. (2013). Stopping Rule Selection (SRS) Theory Applied to Deferred Decision Making. Poster presented at the 35th Annual Conference of the Cognitive Science Society. Berlin Germany.
- Fific M., (2013). *A snake wiggle of reaction time functions to indicate holistic perception*. Presentation at Midwest Cognitive Science Conference, Ohio State University.
- Fific M., (2013). *A snake wiggle of reaction time functions to indicate holistic perception*. Presentation at Midwest Cognitive Science Conference, Ohio State University.
- Fific M., & Rieskamp J., (2012). Society for Judgment and Decision Making The 2012 33th Annual Conference Minneapolis, MN, *The Rosetta stone for cognitive and decision strategies*.
- Fific M., (2012). CPC 2012 University in Minneapolis. *A snake wiggle of reaction time functions to indicate holistic perception*.
- Fific M., & Rieskamp J., (2012). Max Planck Workshop on testing theories of choice, Max Planck Institute, Berlin, Germany "*The Rosetta Stone for Cognitive and Decision Strategies*", poster.
- Fific M., & Rieskamp J., (2012) Midwest Cognitive Science Conference, Bloomington Indiana, "A Response Time Methodology For Testing Compensatory and Non-Compensatory Decision Strategies".
- Fific M., (2012) April, Invited talk Michigan State University "*The Stopping-Rule Selection Theory (SRST) For Evidence Collection: How To Throw a Cast Net*".
- Fific M., (2011). *A snake wiggle of reaction time functions to indicate holistic perception*, Poster 53th Annual Meeting of the Psychonomic Society, Minneapolis, MN.

Employment, teaching experience and assistantships

University of Belgrade, Serbia

- 1992 Tutor, summer session, in Petnica Science Center (center for advanced science and technology education), Petnica, Serbia
- 1994 – 99 Teaching and Research Assistant, Laboratory for Experimental Psychology, Faculty of Philosophy, University of Belgrade, Serbia.
- 1996 - 99 A member of technical staff on project of Corpus of Serbian Language Laboratory for Experimental Psychology, Faculty of Philosophy and Institute for Experimental Phonetics and Speech Pathology, Belgrade, Serbia and Montenegro

Indiana University Bloomington, Indiana, USA

- 1999 Fall Statistical Techniques for undergrads majoring in Psychology
- 2000 Spring Introductory Psychology for undergrads majoring in Psychology

2001 Fall Mathematical psychology
2003 Fall Mathematical psychology
2002 Fall Advanced Statistical Analysis I
2003 Spring Advanced Statistical Analysis II
2004 Fall Advanced Statistical Analysis I
2005 Fall Advanced Statistical Analysis II

Instructor

Grand Valley State University, Michigan, USA

Undergraduate

PSY 300: Research Methods

PSY 400: Advanced Research Methods

PSY 361: Perception