

Yelda Semizer

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RESEARCH INTERESTS

Computational models of visual search, visual clutter, attention, and ensemble representations.

EDUCATION

Rutgers University, New Brunswick, NJ, USA

Ph.D., Cognitive Psychology (*advisor*: Melchi M. Michel) Expected: Oct. 2018

M.S., Statistics (*advisor*: John Kolassa) Oct. 2016

M.S., Cognitive Psychology (*advisor*: Melchi M. Michel) Oct. 2015

Bogazici University, Istanbul, Turkey

M.A., Cognitive Psychology (*advisor*: Aysecan Boduroglu) June 2013

B.A., Psychology (*Magna Cum Laude*) Jan. 2010

University of Edinburgh, Edinburgh, Scotland, UK

Visiting Student July-Sept., 2009

University of Michigan, Ann Arbor, MI, USA

Exchange Student Sept.-Dec., 2008

CERTIFICATES

Rutgers University, New Brunswick, NJ, USA

Center for Online & Hybrid Learning and Instructional Technologies May 2018

Cold Spring Harbor Laboratory, NY, USA

Computational Neuroscience: Vision July 2016

Rutgers University, New Brunswick, NJ, USA

Cognitive Science Center (*advisor*: Eileen Kowler) Oct. 2015

HONORS & AWARDS

Glushko Travel Award, Cognitive Science Society 2018

Elsevier/*Vision Research* Travel Award for Excellence in Vision Science Research 2018

Travel Award, School of Graduate Studies, Rutgers University 2018

Travel Award, Women in Statistics, Data Science and -OMics 2017

Pre-Dissertation Award, Rutgers University 2017

Professional Development Fund, Rutgers University 2016, 2017, 2018

Travel Award, The Society for Mathematical Psychology 2016

Helmsley Fellowship, Helmsley Charitable Trust, Cold Spring Harbor Laboratory 2016

Special Study Award, Rutgers University 2016

Young Scientist Travel Award, Cognitive Science, Indiana University 2016

Travel Award, Department of Psychology, Rutgers University 2015, 2016

Travel Award, Graduate School of New Brunswick, Rutgers University 2015

APA Division 3 Best Psychonomic Society Poster Award Finalist 2015

The Scientific & Technological Research Council National Scholarship 2010 - 2012

PUBLICATIONS

- Semizer, Y., Michel, M. M., Evans, K. K., & Wolfe, J. M.** (2018). Texture as a diagnostic signal in mammograms. In *Proceedings of the Cognitive Science Society Conference*.
- Semizer, Y., & Michel, M. M.** (2017). Intrinsic position uncertainty impairs overt search performance. *Journal of Vision, 17*(9):13, 1-17.
- Semizer, Y., & Michel, M. M.** (*in review*). Natural image clutter degrades overt visual search performance independently of set size.
- He, X., Kleene, N., Persaud, K., **Semizer, Y.**, & Tanrikulu, O. D. (*in prep*). Visual search for multiple targets in probabilistic environments.
- Semizer, Y., & Boduroglu, A.** (*in prep*). Representing visual variance.

THESES

- Semizer, Y.** (2015). The role of peripheral position uncertainty on overt visual search. Rutgers University.
- Semizer, Y.** (2013). Representation of similar objects as a group: Effects of variance on ensemble representations. Bogazici University.

PRESENTATIONS

- Semizer, Y., Michel, M. M., Evans, K. K., & Wolfe, J. M.** (July, 2018). Texture as a diagnostic signal in mammograms. Talk to be presented at 40th Annual Meeting of the *Cognitive Science Society*, Madison, WI.
- Semizer, Y., Michel, M. M., Evans, K. K., & Wolfe, J. M.** (May, 2018). Textures as global signals of abnormality in the interpretation of mammograms. Talk presented at 17th Annual Meeting of *Vision Sciences Society*, St. Pete Beach, FL.
- Semizer, Y., & Michel, M. M.** (October, 2017). Visual search in natural images. Talk presented at *CogFest*, Rutgers University, New Brunswick, NJ.
- Semizer, Y., & Michel, M. M.** (May, 2017). Intrinsic position uncertainty and clutter in natural search tasks. Poster presented at 17th Annual Meeting of *Vision Sciences Society*, St. Pete Beach, FL.
- Semizer, Y., & Michel, M. M.** (May, 2017). Intrinsic position uncertainty and clutter in natural search tasks. Poster presented at 11th Annual *Perceptual Science and Cognitive Science Forum*, New Brunswick, NJ.
- Semizer, Y., & Michel, M. M.** (October, 2016). Searching in clutter: How fast can you find your keys? Talk presented at *Cognitive Science Graduate Student Association*, Rutgers University, New Brunswick, NJ.
- Semizer, Y., & Michel, M. M.** (August, 2016). Position uncertainty, clutter, and performance in naturalistic search. Poster presented at the 49th Annual Meeting of the *Society for Mathematical Psychology*, New Brunswick, NJ.
- Semizer, Y., Persaud, K., He, X., Kleene, N., & Tanrikulu, O. D.** (May, 2016). Visual search for multiple targets in probabilistic environments. Poster presented at 16th Annual Meeting of *Vision Sciences Society*, St. Pete Beach, FL.
- Semizer, Y., & Michel, M. M.** (May, 2016). Position uncertainty, clutter, and performance in naturalistic search. Talk presented at *CogFest*, Rutgers University, New Brunswick, NJ.
- Semizer, Y., & Michel, M. M.** (May, 2016). Position uncertainty, clutter, and performance in naturalistic search. Poster presented at the 10th Annual *Perceptual Science and Cognitive Science Forum*, New Brunswick, NJ.
- He, X., Kleene, N., Persaud, K., **Semizer, Y.**, & Tanrikulu, O. D. (May, 2016). Search strategies for multiple probability targets. Poster presented at the 10th Annual *Perceptual Science and Cognitive Science Forum*, New Brunswick, NJ.
- Semizer, Y., & Michel, M. M.** (November, 2015). Intrinsic position uncertainty impairs overt search performance. Poster presented at the 56th Annual Meeting of the *Psychonomic Society*, Chicago, IL.
- Semizer, Y., & Michel, M. M.** (October, 2015). Peripheral position uncertainty in overt search. Talk

- presented at *CogFest*, Rutgers University, New Brunswick, NJ.
- Semizer, Y., & Michel, M. M.** (September, 2015). Visual search under the effect of intrinsic and extrinsic position uncertainty. Talk presented at *Cognitive Science Graduate Student Association*, Rutgers University, New Brunswick, NJ.
- Semizer, Y., & Michel, M. M.** (May, 2015). The role of peripheral position uncertainty on overt search. Poster presented at 15th Annual Meeting of *Vision Sciences Society*, St. Pete Beach, FL.
- Semizer, Y., & Michel, M. M.** (May, 2015). Peripheral position uncertainty as a limiting factor in overt search. Poster presented at the 9th Annual *Perceptual Science and Cognitive Science Forum*, New Brunswick, NJ.
- Semizer, Y., & Michel, M. M.** (May, 2014). The role of peripheral position uncertainty in overt search. Poster presented at the 8th Annual *Perceptual Science and Cognitive Science Forum*, New Brunswick, NJ.
- Semizer, Y., Kurutas, M., & Canbeyli, R.** (November, 2013). The effect of modulus on magnitude estimation of length and time. Poster presented at 21st Annual Meeting of *Object Perception, Attention, and Memory (OPAM)*, Toronto, Ontario.
- Semizer, Y., & Boduroglu, A.** (November, 2013). Representation of variance and its impact on mean size estimation in visual short-term memory. Poster presented at the 54th Annual Meeting of the *Psychonomic Society*, Toronto, Ontario.
- Semizer, Y., & Boduroglu, A.** (November, 2012). High variance in visual displays leads to overestimation in mean size estimation. Poster presented at the 53rd Annual Meeting of the *Psychonomic Society*, Minneapolis, MN.
- Semizer, Y., & Boduroglu, A.** (April, 2012). The effect of Ramadan fasting on cognitive performance. Poster presented at 17th *National Psychology Congress*, Istanbul, Turkey.
- Mustafaoglu, N., **Semizer, Y., & Tunalioglu, Z.** (September, 2011). The effect of exposure to idealized body images on food intake. Paper presented at the 5th *Psychology Graduate Students Congress*, Istanbul, Turkey.
- Semizer, Y., Candan, A., Unal, E., Naigles, L. R., & Kuntay, A.** (July, 2011). Do Turkish learners employ the accusative case in finding the agent? Poster presented at the Triennial *International Association for the Study of Child Language (IASCL) Congress*, Montreal, Canada.
- Engelhardt, P. E., Demiral, S. B., **Semizer, Y., & Ferreira, F.** (September, 2010). Do over-descriptions impair comprehension: An ERP study. Poster presented at 4th *Psychology Graduate Students Congress*, Ankara, Turkey.
- Akay, N., Kaya, P., & **Semizer, Y.** (July, 2010). Mirrors in the brain: Mirror neurons. Poster presented at the 15th *Psychology Students Congress*, Ankara, Turkey.
- Engelhardt, P. E., Demiral, S. B., **Semizer, Y. & Ferreira, F.** (March, 2010). Over-specified referential expressions impair comprehension: An ERP study. Poster presented at the 23rd Annual Meeting of the *CUNY conference on Human Sentence Processing*, New York City, New York.
- Ata, S., Kiziltan, N., **Semizer, Y., & Subasi, A. B.** (July, 2010). Effect of language in background music on cognitive performance in extraverts and introverts. Paper presented at the 15th *Psychology Students Congress*, Ankara, Turkey.

COMPUTER SKILLS

Python/NumPy/SciPy/Matplotlib/PsychoPy, MATLAB/PsychToolbox, R, Eyelink 1000/Eyelink Toolbox, E-prime, Direct RT, L^AT_EX, B^BT_EX, Praat, Audacity, Avid, SPSS, HTML/CSS.

PROFESSIONAL EXPERIENCE

<i>Teaching Assistant</i> , Department of Psychology, Rutgers University	2013 - present
<i>Research and Teaching Assistant</i> , Department of Psychology, Bogazici University	2011 - 2013
<i>Lab Director and Research Assistant</i> , Language and Com. Lab, Koc University	2009 - 2010

RESEARCH EXPERIENCE

Graduate Research Experience

Computational Vision & Psychophysics Lab , Rutgers University PI: Melchi M. Michel, Project: "Position Uncertainty & Visual Search"	2013 - present
Social Lab , Bogazici University PI: Adil Saribay, Project: "Face Perception and Interpersonal Inference"	2012 - 2013
Psychobiology Lab , Bogazici University PI: Resit Canbeyli, Projects: "Time and Length Perception in Psychophysics" & "Hemispheric Asymmetry of Olfactory Perception and Mood Changes"	2012 - 2013
Autobiographical Memory Lab , Bogazici University PI: Ali Tekcan, Project: "Accessing Early Childhood Memories"	2011 - 2012

Undergraduate Research Experience

Language and Communication Lab , Koc University PI: Aylin Kuntay, Project: "Children's Language Processes and Differential Looking Paradigm"	2009 - 2010
Visual Cognition and Psycholinguistics Lab , University of Edinburgh PI: Fernanda Ferreira, Project: "Referential Expressions and Comprehen."	July-Sept, 2009
Cognitive Processes Lab , Bogazici University PI: Aysecan Boduroglu & Sonia Amadio, Project: "Change Detection Abilities of Drivers"	Sept-Dec, 2009
Basic and Applied Cognition Laboratory , University of Michigan PI: Priti Shah, Project: "Indiv. Differ. in Visuo-Spatial Proc."	Sept-Dec, 2008

TEACHING EXPERIENCE

Classes Taught

Quantitative Methods in Psychology	Summer 2018
Cognition Lab	Fall 2016 - Spring 2018
Sensation & Perception Lab	Fall 2014 - Spring 2016
Lab for Introduction to Statistics for Psychology I & II	Fall/Spring 2012

Guest Lectures

Advanced Statistical Methods (<i>topic: Probability distributions in R</i>)	Spring 2018
Cognition (<i>topic: Perception</i>)	Summer 2016
Advanced Statistical Methods (<i>topic: Sampling dist. & hypo. test.</i>)	Fall 2016
Cognition (<i>topic: Attention</i>)	Fall 2015

Teaching Assistant Positions

Advanced Statistical Methods for Psychology	Spring 2016
Social Psychology. Abnormal Psychology	Spring 2014
Cognition. Motivation and Emotion	Fall 2013
Experimental Psychology	Spring/Fall 2012
Introduction to Psychology	Fall 2011
Social Influences on Behavior	Spring 2011

SERVICE & MEMBERSHIP

Object Perception, Attention, and Memory (OPAM) Conference - Co-organizer	2018 - 2019
Rutgers Cognitive Science Graduate Student Organization - President	2016 - 2017
Rutgers Cognitive Science Graduate Student Organization - VP	2015 - 2016
Rutgers Graduate Student Mentorship Program - Mentor	Summer 2015
Vision Science Society - Member	
Psychonomic Society - Member	
European Federation of Psychology Students Association (EFPSA) - Member	2012