

# האוניברסיטה העברית בירושלים

## סילבוס

קורס קרייה חלק א&oslash;; יסודות בתהליכי קרייה - 04940

תאריך עדכון אחרון 07-10-2018

נקודות זכות באוניברסיטה העברית: 3

תואר: מוסמך

היחידה האקדמית שאחראית על הקורס: חינוך

השנה הראשונה בתואר בה ניתן ללמוד את הקורס: 0

סמסטר: סמסטר א'

שפת ההוראה: עברית

הטפסים: הר הצופים

מורה אחראי על הקורס (רכז): אבטל דויטש

דוא"ל של המורה האחראי על הקורס: [avital.deutsch1@mail.huji.ac.il](mailto:avital.deutsch1@mail.huji.ac.il)

שעות קבלה של רכז הקורס: יום ג 14:15-15:00

מורים הקורס:

תאור כללי של הקורס:

במסגרת הקורס ילמדו המנגנונים הקוגניטיביים המעורבים בתהליכי זיהוי של מילים כתובות. הדין יתמקד בזיהוי מילים בודדות, וכי怎 מושפע התהליך ממאפיינים תלויות שפה.

מטרות הקורס:

מטרת הקורס היא להציג את המודלים המרכזיים לזיהוי מילים בודדות באמצעות החשפות בספרות אקספרמנטלית שמתחכ查 צמחו מודלים אלה. מטרה נוספת היא לתרגל את הסטודנטים להתמודד עם הספרות המחקרית בתחום של תהליכי קריאה.

תוצרי למידה

בסיומו של קורס זה, סטודנטים יהיו מסוגלים:

ראה מטרות הקורס

דרישות נוכחות (%) :

nocחות חובה

שיטת ההוראה בקורס: הדין יתנהל על בסיס קריאה של חומר ניסוי המדגים את התופעות המוזכרות לעיל ואשר הוביל לבניית המודלים השונים. הרשימה שלעיל כוללת את הנושאים שיידנו בקורס. הדין לא יתנהל בהכרח באופן רציף לפי איזכור הנושאים ברשימה.

רשימת נושאים / תכנית הלימודים בקורס:

הקדמה:

- התפתחות שיטות הכתב: לוגוגרפיה, הברתי, אלפא-בית.
- תהליכי קריאה - הקדמה: מה זה מילה כתובה? הבחנה בין תהליכי רכישת קריאה וקריאה של קורא מיומן. *Effect Superiority Word.*

זיהוי מילים בודדות - דין עמוק

- זיהוי וחואלי של מילים כתובות: זיהוי של תבניות ויזואליות מורכבות לעומת זיהוי של תמי יחידות אורתוגרפיות. הצגה של עקרונות השיטה של מודל רשות לזיהוי מילים כתובות.

- כניסה לקסיקאלית: הצגת המודל של המסלול הדו-dimensional route [the dual model route]: המסלול ישיר (אורתוגרפי) והמסלול העיקרי (פונולוגי)], לעומת מודלים קונקציוניסטיים חד-מסלוליים מסווג feedforward and feedback models. דין. מיקום אותיות.

הצגת המודלים תיערך תוך כדי הדגמה של הגורמים המרכזיים המשפיעים על תהליכי זיהוי מילים כתובות: תהליכי פונולוגיים ואורותוגרפיים, מאפייני שכיחות, רגולריות (regularity) או רותוגרפיה עקביות או רותוגרפית (effect consistency) ועומק אורתוגרפי (degש מיוחד על עדויות מעברית). ידונו פרדיגמות מחקר השונות המקבילות בתחום המחקר.

- תהליכי מיצוי המבנה הפונולוגי לאורך זמן הזמן במהלך זיהוי מילה כתובה.

- תהליכי זיהוי המבנה האורתוגרפי: למידה הסתברותית.
- הצגת הפרדיגמה של מעקב אחר תנועות עיניים. באמצעות אמצעי לחקור את תהליכי הקריאה. הצגת המודל של ה-E-Z reader לתנועות עיניים בקריאה. דיון בתפקיד של קשב בזיהוי מילים כתובות בקריאה בתוך הקשר - מודלים סריאליים לעומת מודלים מקביליים להקצאת קשב בקריאה.
- דיון בהשלכות התאורטיות של המחבר העוסק בזיהוי מילים בודדות על הוראת הקריאה.
- ההשפעה של ייחדות מורפולוגיות על זיהוי מילים כתובות - דיון מפורט על השפה העברית. הדיון יכול גם לתיאר את התופעה של *letter transposition* ושל *priming form*.
- הקשר בין קריאה ואיות.

חומר חובה לקריאה:

קריאה חובה תוכל על פריטים נבחרים (כ 12 פריטים). הودעה תינתן בסופה של כל שיעור בהתאם להתקדמות בחומר הנלמד.

Alario, F.-Xavier, De Cara, B., & Ziegler, J. C. (2007). Automatic activation of phonology in silent reading in parallel: Evidence from beginning and skilled readers. *Journal of Experimental Child Psychology*, 97(3), 205-219.

Apel, J. K., Henderson, J. M., & Ferreira, F. (2012). Targeting regressions: Do readers pay attention to the left? *Psychonomic Bulletin & Review*, 19, 1108-113.

Arciuli, J. & Simpson, I. C. (2012). Statistical learning is related to reading ability in children and adults. *Cognitive Science*, 36, 286-304.

Ashby, J., Treiman, R. Kessler, B. and Rayner, K. (2006). Vowel Processing During Silent Reading: Evidence From Eye Movements. *Journal of experimental psychology: Learning, memory and cognition*, 32 (2), 416-424.

Bernet, I., & Perfetti, C. A. (1995). A rose is a REEZ: the two-cycles model of phonology assembly in reading English. *Psychological Review*, 102, 146-184.

Boudelaa, S., & Marslen-Wilson, W. (2005). Discontinuous morphology in time: Incremental masked priming in Arabic. *Language and Cognitive Processes*, 20, 207-260

Boudelaa, S., & Marslen-Wilson, W. D. (2011). Productivity and priming: Morphemic decomposition in Arabic. *Language and Cognitive Processes*, 26, 624-652.

Brand, M., Rey, A., & Peerman, R. (2003). Where is the syllable priming effect in visual word recognition. *Journal of Memory and Language*, 48, 435-443.

Brothers, T., Hoverstern, L. J., and Traxler, M. J. (2017). Looking back on reading ahead: No evidence for lexical parafoveal-on-foveal effects. *Journal of Memory and Language*, 96, 9-22.

- 
- Brysbaert, M. (2001). Prelexical phonological coding of visual words in Dutch: Automatic after all. *Memory & Cognition*, 29(5), 765-773.
- Chateau, D., & Jared, D. (2003). Spelling-sound consistency effects in disyllabic word naming. *Journal of Memory and Language*, 48, 255-280.
- Chen, H. C., Vaid, J., & W, J. T. (2009). Homophone density and phonological frequency in Chinese word recognition. *Language and Cognitive Processes*, 24, 967-982.
- Christianson, K., Johnson, R., L., & Rayner, K. (2005). Letter transposition within and across morphemes. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 31, 1327-1339.
- Clifton, C., Ferreira, F., Henderson, J. M., Inhoff, A., W., Liversedge, S., P., Reichle, E., D., and Schotter, E., R. (2016). Eye movements in reading and information processing: Keith Rayner's 40 year legacy. *Journal of Memory and Language*, 86, 1-19.
- Colombo, L. (2000). The assembly of phonology in Italian and English: Consonants and Vowels. In: A. Kennedy, R. Radach, D. Heller, & Pynte J. (Eds.) *Reading as a Perceptual Process* Amsterdam: Elsevier.
- Coltheart, M. (1978). Lexical access in simple reading task. In |G. Underwood (Ed.) *Strategies of Information Processing* (pp. 151-216). London: Academic.
- Coltherat, M. (2005). Modeling reading: The dual-route approach. In: M. J. Snowling, and C. Hulmes (Eds.) *The science of reading: A handbook* (pp. 6-23). Oxford UK: Blackwell Publishing.
- Coltheart, M., Rastle, K., Conrad, P., Robyn, L., & Ziegler, J. (2001). DRC: A dual route cascaded model of visual word recognition and reading aloud. *Psychological Review*, 108, 204-256.
- Coltheart, V., Patterson, K., & Leahy, J. (1994). When a ROWS is a ROSE: Phonological effects in written word comprehension. *Quarterly Journal of Experimental Psychology*, 47.
- Conrad, M., Carreiras, M., Tamm, s., and Jacobs, A., M. (2009). Syllables and biframes: Orthographic redundancy and syllabic units affect visual word recognition at different processing levels. *Journal of Experimental Psychology: Human, Perception, and Performance*, 35(2), 461-479.
- Crepaldi, D., Rastle, K., Coltheart, M., & Nickels, L. (2010). 'Fell' primes 'fall', but

---

*does 'bell' prime 'ball'? Masked priming with irregularly-inflected primes. Journal of Memory and Language, Vol 63(1), 83-99.*

*Davis, C., J. (2010). SOLAR versus SERIOL revisited. European Journal of Cognitive Psychology, 22, 695-724.*

*Deutsch, A., Frost, R., & Forster, K. (1998). Verbs and nouns are organized and accessed differently in the mental lexicon: Evidence from Hebrew. Journal of Experimental Psychology: Learning, Memory, & Cognition, 24, 1238-1255.*

*Deutsch, A., Frost, R. Pelleg, S., Pollatsek, A., & Rayner, K. (2004). Early morphological effects in reading: Evidence from parafoveal preview benefit effect in Hebrew. Psychonomic Bulletin & Review, 10, 415-422.*

*Deutsch, A., Frost, R., Pollatsek, A., & Rayner, K. (2000). Early morphological effects in word recognition in Hebrew: Evidence from parafoveal preview benefit. Language and Cognitive Processes, 15, 487-506.*

*Diependaele, K., Morris, J., Serota, R. M., Bertrand, D., and Grainger, J. (2013). Breaking boundaries: Letter transpositions and morphological processing. Language and Cognitive Processes, 28, 988-1003.*

*Diependaele, K., Ziegler, J., Grainger, J. (2010). Fast phonology and the bi-modal interactive activation model. European Journal of Cognitive Psychology, 22, 764-778.*

*Doctor, E. A., & Coltheart, M. (1980). Children's use of phonological encoding when reading for meaning. Memory and Cognition, 8, 195-209.*

*Duñabeitia, J. A., Orihuela, K., & Carreiras, M. (2014). Orthographic coding in illiterates and literates. Psychological science, 25, 1275-1280.*

*Duñabeitia, J. A., Perea, M. & Carreiras, M. (2014). Revisiting letter transpositions within and across morphemic boundaries. Psychological Bulletin & Review, 21, 1557-1575.*

*Engbert, R., Nuthmann, A., Richter, E., & Kliegl, R. (2005). SWIFT: A dynamical model of saccade generation during reading: Psychological Review, 112, 777-813.*

*Ferrand, L., & Grainger, J. (1994). Effects of Orthography are independent of phonology in masked form priming. The Quarterly Journal of Experimental Psychology, 47A, 365-382.*

*Frisson, S., Bélanger, & Rayner (2014). Phonological and orthographic overlap effects in fast and masked priming. The Quarterly Journal of experimental*

---

*Psychology*, 67, 1742-1767.

Frost, R. (1994). *Prelexical and postlexical strategies in reading; evidence from a deep and a shallow orthography*. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 20, 116-129.

Frost, R. (1995). *Phonological computation and missing vowels: Mapping lexical involvement in reading*. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 21, 398-408.

Frost, R. (1998). *Toward a strong phonological theory of visual word recognition: True issues and false trials*. *Psychological Bulletin*, 123, 71-99.

Frost, R. (2006). *Becoming literate in Hebrew; the grain size hypothesis and Semitic orthographic systems*. *Developmental Science*, 9, 439-440.

Frost, R. (2012). *Towards a universal model of reading*. *Behavioral and Brain Sciences*, 35, 263-279.

Frost, R., Ahissar, M., Gotesman, R., Tayeb, S. (2003). *Are phonological effects fragile? The effect of luminance and exposure duration on form priming and phonological priming*. *Journal of Memory and Language*, 48 (2), 346-378.

Frost, R., Deutsch, A., & Forster, K. (2000). *Decomposing morphologically complex words in a nonlinear morphology*. *Journal of Experimental psychology: Learning, Memory, & cognition*, 26, 751-765.

Frost, R., Forster, K. I., & Deutsch, A. (1997). *What can we learn from morphology of Hebrew? A masked priming investigation of morphological representation*. *Journal of Experimental psychology: Learning, Memory, & cognition*, 23, 829-856.

Frost, R., Katz, L., & Bentin, S. (1987). *Startegies for visual word recognition and orthographical depth: A multilingual comparison*. *Journal of Experimental Psychology: Human, Perception and Performance*, 13, 104-115.

Frost, R., Kugler, T., Deutsch, A., & Forster, K. I. (2005). *Orthographic Structure Versus Morphological Structure: Principles of Lexical Organization in Given Language*. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 31, 1293-1326.

Frost, R., & Yogeved, O. (2001). *Orthographic and phonological computation in visual word recognition: Evidence from backward masking in Hebrew*. *Psychonomic*

---

*Bulletin and Review* 8, 524-530.

Forster, K. I., & Chambers, S. M. (1973). Lexical access and naming time. *Journal of Verbal Learning and Verbal Behavior*, 12, 627-635.

Glushko, R. (1979). The organization and activation of orthographic knowledge in reading aloud. *Journal of Experimental Psychology: Human, Perception and Performance*, 5, 674-691.

Gronau, N. & Frost R. (1997). Prelexical phonologic computation in deep orthography: Evidence from backward masking in Hebrew. *Psychonomic Bulletin & Review*, 4, 107-112.

Harm, M., McCandliss, B. D., & Seidenberg, M. S. (2003). Modeling the successes and failure of interventions for disabled readers. *Scientific Studies of Reading*, 7, 155-182.

Harm, M. W., & Seidenberg, M. S. (2004). Computing the meaning of words in reading: Cooperative division of labor between visual and phonological processes. *Psychological Review*, 11, 662-720.

Jared, D. (1997). Spelling-sound consistency affects the naming of high-frequency words. *Journal of Memory and Language*, 36, 505-529.

Jared, D. (2002). Spelling-sound consistency and regularity effects in word naming. *Journal of Memory and Language*, 46, 723-750.

Jared, D., Levy, B. A., & Rayner, K. (1999). The role of phonology in the activation of word meanings I reading: Evidence from proofreading and eye movements. *Journal of Experimental Psychology: General*, 128, 219-264.

Jared, D., & Seidenberg, M. S. (1991). Does word recognition proceed from spelling to sound to meaning? *Journal of Experimental Psychology: General*, 120, 358-394.

Johnson, R. L., & Perey, M., & Rayner, K. 2007. Transposed-Letter Effects in Reading; Evidence From Eye Movements and Parafoveal Preview. *Journal of Experimental Psychology: Human Perception and Performance*, 33, 209-229.

Jordan, T. R., McGowan, V. A., & Paterson, K. B. (2012). Reading with a filtered fovea: The influence of visual quality at the point of fixation during reading. *Psychonomic Bulletin & Review*, 19, 1078-1084.

Kessler, B. and Treiman R. (2001). Relationships between Sounds and Letters in

- English Monosyllables. Journal of Memory and Language, 44, 592-617.*
- Kinoshita, S., & Norris, D. (2013). Letter order is not coded by open bigrams. Journal of Memory and Language, 69, 135-150.*
- Lachter, J. , Ruthruff, E., Mei-Ching, L., & McCann, R. (2008). Is attention needed for word identification? Evidence from the Stroop paradigm. Psychonomic Bulletin & Review, 15, 950-955.*
- Leck, K. J., Weekes, B. S., & Chen, M. J. (1995). Visual and phonological pathways to the lexicon: Evidence from Chinese readers. Memory & Cognition, 23, 468-476.*
- Lee, H.-W., Kambe, G., Pollatsek, A., & Rayner, K. (2005). The lack of pseudohomophone priming effects with short durations in reading and naming. Experimental Psychology, 52, 281-288.*
- Lee, H. W., Rayner, K., Pollatsek, A. (2001). The relative contribution of consonants and vowels to word identification during reading. Journal of memory and language, 44 (2), 189-205.*
- Lee, Y., Binder, K. S., Pollatsek, A., & Rayner, K. (1999). Activation of phonological codes during eye fixations in reading. Journal of Experimental Psychology: Human, Performance and Perception, 25, 948-964.*
- Lee, Y., Rayner, K., & Pollatsek, A. (1999). The time course of phonological, semantic, and orthographic coding in reading: Evidence from the fast-priming technique. Psychonomic Bulletin & Review, 6, 624-634.*
- Lesch, M. F., & Pollatsek, A. (1993). Automatic access of semantic information by phonological codes in visual word recognition. Journal of Experimental Psychology: Learning, Memory and Cognition, 19, 285-294.*
- Li, X., Bicknell, K., Liu, P., Wei, W., & Rayner, K. (2014). Reading is fundamentally similar across writing systems: A systematic characterization of how words and characters influence eye-movements in Chinese reading. Journal of Experimental Psychology: General, 2430, 895-913.*
- Li, C., Lin, C. Y., Wang, M., and Jiang, N. (2013). The activation of segmental and tonal information in visual word recognition. Psychonomic Bulletin and Review, 20, 773-779.*
- Li, X., Gu, J., Liu, P., & Rayner, K. (2012). The advantage of word-based processing in Chinese reading: Evidence from eye movements. Journal of Experimental Psychology: Learning, Memory, and Cognition.*
- Lukatela, G., & Turvey, M. T. (1994). Visual lexical access is initially phonological: 2. Evidence from phonological priming by homophones and pseudohomophones.*

---

*Journal of Experimental Psychology: General*, 123, 331-353.

Lupker, S., J. (2005). Visual word recognition: theoriwes and findings. In: M. J. Snowling, and C. Hulmes (Eds.) *The science of reading: A handbook* (pp. 39-60). Oxford UK: Blackwell Publishing.

Marinelli, C., Romani, C., Burani, C., Zoccolotti, P. (2015). Spelling acquisition in English and Italian: A cross-linguistic study. *Frontiers in Psychology*, <http://journal.frontiersin.org/article/10.3389/fpsyg.2015.01843/full>

Marcolini, S., Traficante, D., Zoccolotti, P., and Burani, C. (2011). Word frequency modulates morpheme-based reading in poor and skilled Italian readers. *Applied Psycholinguistics*, 32, 513-532.

Marshall, J. C., & Newcombe, F. (1973). Patterns of paralexia: A Psycholinguistic approach. *Journal of Psycholinguistic Research*, 2, 175-199.

Massaro, D. W., & Cohen, M. M. (1991). Integration versus interactive activation: The joint influence of stimulus and context in perception. *Cognitive Psychology*, 23, 558-614.

Massol, S., Grainger, J., Dufau, S., & Holcomb, P. (2010). Masked priming from orthographic neighbors: An ERP investigation. *Journal of Experimental Psychology: Human, Perception and Performance*, 36, 162-174.

McClelland, J. L., & Rumelhart, D. E. (1981). An interactive activation model of context effects in letter perception: Part 1. An account of basic findings. *Psychological Review*, 88, 375-407.

Millet, S., O'Donnell & Sereno (2009). Parafoveal Magnification: Visual acuity does not modulate the perceptual span. *Psychological Science*, 20, 721-728.

Miellet, S., & Sparrow, L. (2004). Phonological codes are assembled before word fixation: Evidence from boundary paradigm in sentence reading. *Brain and Language*, 90, 299-310.

Monaghan, P., Ellis, A. W. (2010). Modeling reading development: Cumulative, incremental learning in a computational model of word naming. *Journal of Memory and Language*, 63, 506-525.

Murray, W. S., & Forster, K. I. (2004). Serial mechanisms in lexical access: The rank hypothesis. *Psychological Review*, 111, 721-756.

New, B., and Nazzi, T. (2014). The time course of consonants and vowel processing during word recognition. *Language, Cognition and Neuroscience*, 29, 147-157.

- 
- Mousikou, P., Sadat, J., Lucas, R., and Rastle, K. (2017). Moving beyond the monosyllable in models of skilled reading: Mega-study of disyllabic nonword reading. Journal of Memory and Language, 93, 169-192.*
- Pacton, S., Perruchet, P., Fayol, M. and Cleeremans, A. (2001). Implicit learning out of the Lab: The case of orthographic regularities. Journal of Experimental Psychology: General, 130 (3), 401-426.*
- Paap, K. R., Newsome, S. L., McDonald, J. E., & Achvaneveldt, R. W. (1982). An activation-verification model for letter and word recognition: The word superiority effect. Psychological Review, 89, 573-594.*
- Paap, K. R., & Noel, R. W. (1991). Dual route models of print to sound: Still a good horse race. Psychological Research, 53, 13-24.*
- Paterson, K. B., Alockoc, A., & liversedge, S., P. (2011). Morphological priming during reading: Evidence from eye movements. Language and Cognitive Processes, 26, 600-623.*
- Perea, M., Abu Mallouh, R., & Carreiras, M. (2010). The search of an input coding scheme: Transposed-letter priming in Arabic. Psychonomic Bulletin and Review, 17, 375-380.*
- Perea, M., & Lupker, S. J. (2004). Can CANISO activate CASINO? Transposed-letter similarity effects with nonadjacent letter positions. Journal of Memory and Language, 51, 231-246.*
- Perfetti, C. A., Bell, L. C. (1991). Phonemic activation during the first 40 ms of word recognition: Evidence from backward masking and priming. Journal of Memory and Language, 30, 473-485.*
- Perfetti, C. A., Bell, L. C., & Delaney, S. M. (1988). Automatic (prelexical) phonetic activation in silent word reading: Evidence from backward masking. Journal of Memory and Language, 27, 59-70.*
- Perfetti, C. A., & Tan, L. H. (1998). The time course of graphic, phonological, and semantic activation in chinese character identification. Journal of Experimental Psychology: Learning, Memory, and Cognition, 24, 101-118.*
- Perfetti, C. A., & Zhang, S. (1991). Phonemic processes in reading Chineses words. Journal of Experimental Psychology: Learning, Memory and Cognition, 1, 633-643.*

- 
- Pexman, P. M., Lupker, S. J., & Reggin, L. D. (2002). Phonological effects in visual word recognition: Investigating the impact of feedback activation. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 28, 572-584.
- Plaut, D., C. (2005). Connectionsit approaches to modeling. In: M. J. Snowling, and C. Hulmes (Eds.) *The science of reading: A handbook* (pp. 24-38). Oxford UK: Blackwell Publishing.
- Plaut, D. C., McClelland, J. L., Seidenberg, M. S., & Patterson, K. (1996). Understanding normal and impaired word reading:computational principles in quasi regular domains. *Psychological Review*, 103, 56-112.
- Pollatsek, A., Lesch, M., Morris, R., & Rayner, K. (1992). Phonological codes are used in integrating information across saccades in word identification and reading. *Journal of Experimental Psychology; Human, Perception and Performance*, 18, 148-162.
- Pollatsek, A., Rayner, K., & Lee, H. (2000). Phonological coding in word perception and reading. In: A. Kennedy, R. Radach, D. Heller, & Pynte J. (Eds.) *Reading as a Perceptual Process* Amsterdam: Elsevier.
- Pollatsek, A., Tan, L. H., & Rayner, K. (2000). The role of phonological codes in integrating information across saccadic eye-movements in Chinese character identification. *Journal of Experimental Psychology; Human, Perception and Performance*, 26, 607-633.
- Qu, Q., Dmian, M., F., & Li, X. (2016). Phonology contributes to writing: evidence from masked priming task. *Language, Cognition and Neuroscience*, 31, 251-264.
- Racine, I., Burki, & Spinelli (2014). The implication of spelling and frequency in the recognition of phonological variants: evidence from pre-readers and readers. *Language, Cognition, and Neuroscience*, 29, 893-898.
- Radach, R., & Kennedy, A. (2012). Eye movements in reading: Some theoretical context. *The quarterly Journal of Experimental Psychology*, 66, 429-452.
- Rapp, B., & lipka, K. (2011). The literate brain: the relationship between spelling and reading. *Journal of cognitive Neuroscience*, 23, 1180-1197.
- Rapp, D. N., & Samuel, A. G. (2000). A reason to rhyme: Phonological and semantic influences on lexical access. . *Journal of Experimental Psychology: Learning, Memory and Cognition*, 28, 564-571.

- 
- Rastle, K., D., Marslen-Wilson, W. D., & Tuler, L. K. (2000). Morphological and semantic effects in visual word recognition: A time-course study. Language and Cognitive Processes, 15, 507-537.*
- Rayner, K., Juhasz, B., J., and Pollatsek, A. (2005). Eye movements during reading. In: M. J. Snowling, and C. Hulmes (Eds.) The science of reading: A handbook (pp. 79-98). Oxford UK: Blackwell Publishing.*
- Rayner, K., Pollatsek, A., & Binder, K. (1998). Phonological codes and eye movements in reading. Journal of Experimental Psychology: Learning, Memoey, & Cognition, 24, 476-497.*
- Rayner, K., Schotter, E., R., Masson, M. E., Potter, M., & Treiman, R. (2016). So much to read, so little time: How do we read, and can speed reading help? Psychological Science, 17, 4-34.*
- Rayner, K., Sereno, S. C., Lesch, M. F., & Pollatsek, A. (1995). Phonological codes are automatically activated during reading. Psychological Science, 6, 26-32.*
- Reichle, E. D., Liversedge, S. P., Pollatsek, A., Rayner, K. (2009). Encoding multiple words simultaneously in reading is implausible. Trends in Cognitive Sciences, 13 (3), 115-119.*
- Reichle, E. D., Pollatsek, A., & Rayner, K. (2006). E-Z Reader: A cognitive-control, serial-attention model of eye-movement behavior during reading. Cognitive Systems Research, 7, 4-22.*
- Reichle, E., Pollatsek, A.k, Fisher, D. L. & Rayner, K. (1998). Toward a model of eye movement control in reading. Psychological Review, 105, 125-157.*
- Reichle, E. D., Rayner, K., & Pollatsek, A. (2003). The E\_Z Reader model of eye movement control in reading: Comparison to other models. Behavioral and Brain Sciences, 26, 445-476.*
- Reicher, G. M. (1996). Perceptual recognition as a function of meaningfulness of stimulus material. Journal of Experimental Psychology, 81, 275-280.*
- Reingold, E. M., Reichle, E., D., & Glaholt, M., G. (2012). Direct lexical control of eye movements in reading: Evidence from a survival analysis of fixation durations. Cognitive Psychology, 65, 177-206.*
- Rubenstein, H., Lewis, S. S., & Rubenstein, M. A. (1971). Evidence for phonemic recoding in visual word recognition. Journal of Verbal Learning and Verbal Behavior, 10,*

Rueckl, J. G. (2002). *The dynamics of visual word recognition*. *Ecological Psychology*, 14, 5-19.

Rueckl, J. G., Paz-Alonso, P. M., Molfese, P. J., Kuo, W.-J., Bick, A., Frost, S. J., . . . Frost, R. (2015). Universal brain signature of proficient reading: Evidence from four contrasting languages. *PNAS Proceedings of the National Academy of Sciences of the United States of America*, 112, 15510-15515.

Rueckl, J. G., & Rimzhim, A. (2011). On the interaction of letter transpositions and morphemic boundaries. *Language and Cognitive Processes*, 26, 482-508.

Rumelhart, D. E., & McClelland, J. L. (1982). An interactive activation model of context effects in letter perception: Part 2. *Psychological Review*, 89, 60-94.

Sánchez-Gutiérrez, C., & Rastle, K. (2013). Letter transpositions within and across morphemic boundaries: Is there a cross-language difference? *Psychonomic Bulletin & Review*, 20, 988-996.

Sasanuma, S., Sakuma, S., & Kitano, K. (1992). Reading Kanji without semantics: Evidence from a longitudinal study of dementia. *Cognitive Neuropsychologia*, 9, 465-468.

Schoonabert, S. G., and Grainger, J. (2004). Letter position coding in printed word perception: effects of repeated and transposed letters. *Language and Cognitive Processes*, 19(3), 333-367.

Seidenberg, M. S., & McClelland, J. L. (1989). A distributed, developmental model of word recognition. *Psychological Review*, 523-568.

Seidenberg, M. S., Petersen, A., MacDonald, M., & Plaut, D. C. (1996). Pseudohomophone effects and models of word recognition. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 22, 48-62.

Seidenberg, M. S., Waters, G., Barnes, M. A. & Tanenhaus, M. K. (1984). When does irregular spelling or pronunciation influence word recognition. *Journal of Verbal Learning and Verbal Behavior*, 23, 383-404.

Sereno, S. C., & Rayner, K. (1992). Fast priming during eye fixation in reading. *Journal of Experimental Psychology: Human, Perception and Performance*, 18, 173-184.

---

Schoonbaert, S. & Grainger, J. (2004). Letter position coding in printed word perception: Effects of repeated and transposed letters. *Language and Cognitive Processes*. Vol 19(3), 333-367.

Schmalz, E., Marinus, M., Coltheart, A., & Castles, A. (2015). Getting to the bottom of orthographic depth. *Psychonomic Bulletin & Review*, 22, 1614-1629.

Smolka, E., Koml'osi, S. & Rösler, F. (2009). When semantics means less than morphology: The processing of German prefixed verbs. *Language and Cognitive Processes*, 24, 337-375.

Smolka, E., Preller, K., H., & Eulitz, C. (2014). 'Verstehen' ('understand') primes 'sthen' ('stand'): Morphological structure overrides semantic compositionality in the lexical representation of German complex verbs. *Journal of Memory and Language*, 72, 16-36.

Stinchcombe, E. J., Lupker, S., J., Davis, C. J. (2012). Transposed-letter priming effects with masked subset primes: A re-examination of the "relative position priming constraint. *Language and Cognitive Processes*, 27(4), 475-499.

Stone, G. O., & Van Orden, G. C. (1994). Building a resonance framework for word recognition using design and system principles. *Journal of Experimental Psychology: Human, Perception and Performance*, 36, 337-359.

Stone, G. O., Vanhoy, M., & Van Orden, G. (1997). Perception is a two way street: Feedforward and feedback phonology in visual word recognition. *Journal of Memory and Language*, 36, 337-359.

Sun, Y., & Peperkamp, S. 2016). The role of speech production in phonological decoding during visual word recognition: Evidence from phonotactic repair. *Language, Cognition and Neuroscience*, 31, 391-403.

- Taft, M., & Nillsen, C. (2013). Morphological decomposition and the transposed letter (TL) position effect. *Language and Cognitive Processes*, 28, 917-938.

Tan, L. H., Hoosain, & Peng, D. L. (1995). Role of early presemantic phonological code in Chinese character identification. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 21, 43-54.

Tan, L. H., & Perfetti, C. (1997). Visual Chineses character recognition: Does phonological information mediate access to meaning? *Journal of Memory and Language*, 37, 41-57.

Treiman, R., Seidenberg, M. S., & Kessler, B. (2015). Influences on spelling: evidence from homophones. *Language, Cognition and Neuroscience*, 30,

- Tsang, Y.-K., Wong, A., W.-K., Huang, J., and Chen, H.-C. (2014). Morpho orthographic and morpho-semantic processing in word recognition and production: evidence from ambiguous morphemes. *Language, Cognition and Neuroscience*, 29, 543-560.

Van-Orden, G. C. (1987). A rows is a rose: Spelling, sound and reading. *Memory & Cognition*, 15, 181-198.

Van-Orden, G. C., & Goldinger, S. D. (1994). Interdependence of form and function in cognitive systems explains perception of printed words. *Journal of Experimental Psychology: Human, Perception and Performance*, 20, 1269-1291.

Van-Orden, G. C., Johnson, J. C., & Hale, B. L. (1988). Word identification in reading proceeds from spelling to sound to meaning. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 14, 371-386.

Van-Orden, G. C., Pennington, B. F., & Stone, G. O. (1990). Word identification in reading and the promise of subsymbolic psycholinguistics. *Psychological Review*, 97, 488-522.

Velan, H., Deutsch, A., & Frost, R. (2013). The flexibility of Letter-Position Flexibility: Evidence from eye movements in reading Hebrew. *Journal of Experimental Psychology: Human, Perception and Performance*, 39, 1143-1152.

Velan, H., & Frost, R. (2007). Cambridge University Vs. Hebrew University: The impact of letter transposition on reading English and Hebrew. *Psychonomic Bulletin and Review*, 14(5), 913-918.

Velan, H., & Frost, R. (2009). Letter-transposition effects are not universal: The impact of transposing letters in Hebrew. *Journal of Memory & Language*, 61(3), 285-302.

Velan, H., & Frost, R. (2011). Words with and without internal structure: what determines the nature of orthographic processing. *Cognition*, 118, 141-156.

Velan, H., Frost, R., Deutsch, A., & Plaut, D. (2005). The processing of root morphemes in Hebrew: Contrasting localist and distributed accounts. *Language and Cognitive Processes*, 20, 169-206.

White, S., J., Johnson, R. L., Liversedge, S. P., & Rayner, K. (2008). Eye movements

---

*when reading transposed text: The importance of word-beginning letters. Journal of Experimental Psychology: Human, Perception and Performance, 34, 1261-1276.*

*Whitney, C. (2001). How the brain encodes the order of letters in a printed word: The SERIOL model and selective literature review. Psychonomic Bulletin & Review, 8, 221-243.*

*Wydell, T., Butterworth, B., & Patterson, K.E (1995). The inconsistency of consistency effects in reading: The case of Japanesees Kanji. Journal of Experimental Psychology: Learning, Memory, & Cognition, 21, 1155-1168.*

*Wydell, T., Patterson, K. E., & Humphreys, G. W. (1993). Phonologically mediated access to meaning for Kanji: Is a Rows still a Rose in Japanes Kanji? Journal of Experimental Psychology: Learning, Memory, & Cognition, 19, 491-514.*

*Xu, Y., Pollatsek, A., & Potter, M. C. (1999). The activation of phonology during silent Chinese word reading. ournal of Experimental Psychology: Learning, Memory, & Cognition, 25, 838-857.*

*Yap, M., J., and Balota, D. A. (2009). Visual word recognition of multisyllabic words. Journal of Memory and Language, 60, 502-529.*

*Yates, M., Friend, J., & Ploetz, D. M. (2008). The effect of phonological neighborhood density on eye movements during reading. Cognition, 107 , 685-692.*

*Yarkoni, T., Balota, D., & Yap., M. (2008). Moving beyond Coltheart's N: A new measure of orthographic similarity. Psychonomic Bulletin and Review, 15, 971-979.*

*Zevin, J. D. and Seidenberg M. S. (2006) Simulating consistency effects and individual differences in nonword naming: A comparison of current models, Journal of Memory and Language, 5 (2), 145-160.*

*Zhou, X., Marslen-Wilson, W., D. (2009). Pseudohomophone effects in processing Chinese compound words. Language and Cognitive Processes, 24, 1009-1038.*

*Ziegler, J. C., Ferrand, L., Jacobs, A. M., Rey, A., & Grainger, J. (2000). Visual and phonological codes in letter and word recognition: Evidence from incremental priming. Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology, 53, 671-692.*

*Ziegler, J., & Goswami, U. C. (2005). Reading acquisition, developmental dyslexia and skilled reading across languages; a psycholinguistic grain size theory.*

Ziegler, J., & Goswami, U. C. (2006). *Becoming literate in different languages; similar problems, different solutions*. *Developmental Science*, 9, 429-436.

Ziegler, J. C., & Jacobs, A. M. (1995). *Phonological information provides early sources of constraint in the processing of letter strings*. *Journal of Memory & Language*, 34, 567-593.

Ziegler, J. C., Tan, L. H., Perry, C., & Montant, M. (2000). *Phonology matters: The phonological frequency effect in written Chinese*. *Psychological Science*, 11, 234-238.

Ziegler, J. C., Van-Orden, G. C., & Jacobs, A. M. (1997). *Phonology can help or hurt the perception of print*. *Journal of Experimental Psychology: Human, Perception, & Performance*, 23, 845-860.

חומר לקריאה נוספת:

2. במהלך הקורס ניתן להיעזר גם בפרקים 1,2,3,5 מתוך הספר *M. J. Snowling and Hulme, C. (Eds.) The Science of Reading, 2005, Blackwell* המסכם את חלקם של הנושאים הנידונים. הספר מצוי בספריה והפרקם הרלוונטיים נסרקו לאתר. מראה המקום המדוקדק מצוי ברשימה הביבליוגרפית תחת שמות המחברים: *Coltheart, 2005 (Ch.1), Plaut, 2005 (Cp. 2) Lupker, 2005 (Cp. 3) and Rayner et al., 2005, (Cp. 5)*.

הערכת הקורס - הרכיב הציון הסופי :

מבחן מסכם בכתב/בחינה בעל פה	90 %
הרצאה	0 %
השתתפות	0 %
הגשת עבודה	0 %
הגשת תרגילים	10 %
הגשת דוחות	0 %
פרויקט מחקר	0 %
בחנים	0 %
אחר	0 %

מידע נוסף / הערות:

התרגיל יכנס לשקלול הציון הסופי רק אם בכוחו להעלות את הציון הסופי.