CURRICULUM VITAE

**Natalia Rakhlin**

**Associate Professor of Linguistics**

**Wayne State University**

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Ph.D., Linguistics, University of Connecticut, Storrs, CT, 2007

**Research Interests:** Child language acquisition, developmental language disorders, biological and environmental influences on language development, language endangerment

**Academic Appointments**

May 2018 – current Associate Professor, Department of English/Linguistics, Wayne State University

September 2014 – May 2018 Associate Professor, Department of Communication Sciences and Disorders, Wayne State University

May 2012 - August 2014 Associate Research Scientist, Child Study Center, Yale University, New Haven, CT

July 2008- May 2012 Post-doctoral associate, Child Study Center, Yale University, New Haven, CT

**Honors & Recognition**

April 27, 2023 Career Development Chair Award

Winter 2020 Keal Fellowship

**Peer-Reviewed Publications**

Rakhlin, N., Mourgues, C, Logvinenko, T., Kornev. A., & Grigorenko, E. (2022). What reading-level match design reveals about Specific Reading Disability in a transparent orthography and how much we can trust it. *Scientific Studies of Reading,* 1-18.

Rakhlin, N. & Progovac, L. (2020). Hierarchical clause structure as a tool for cognitive advances in early childhood. *Language Sciences,* 83, 101,316.

Rakhlin, N., Li, N., Aljughaiman, A., & Grigorenko, E. (2020). Narrative language markers of Arabic language development and impairment. *Journal of Speech, Language and Hearing Research, 1-16.* PMID: 32916078.

Rakhlin, N., Landi, N., Lee, M., Magnuson, J., Naumova, O., Ovchinnikova, O., Grigorenko, E. (2020). Cohesion of cortical language networks during word processing is predicted by a common polymorphism in the *SETBP1* gene. *New Directions for Child and Adolescent Development*, 169, 131-155. PMID: 32324324.

Rakhlin, N. V., Aljughaiman, A., & Grigorenko, E. L. (2019). Assessing language development in Arabic: The Arabic language: Evaluation of Function (ALEF). *Applied Neuropsychology: Child*, 1-16. PMID: 31076015.

Rakhlin, N., Mourgues, C., Cardoso-Martins, C., Kornev, A. N., & Grigorenko, E. L. (2019). Orthographic processing is a key predictor of reading fluency in good and poor readers in a transparent orthography. *Contemporary Educational Psychology*, 56, 250 – 261. PMID: [31798206](https://www.ncbi.nlm.nih.gov/pubmed/31798206).

Progovac, L., Rakhlin, N., Angell, W., Liddane, R., Tang, L., & Ofen, N. (2018). Neural Correlates of Syntax and Proto-Syntax: Evolutionary Dimension. *Frontiers in Psychology*, *9*.

Progovac, L., Rakhlin, N., Angell, W., Liddane, R., Tang, L., & Ofen, N. (2018). Diversity of Grammars and Their Diverging Evolutionary and Processing Paths: Evidence from Functional MRI Study of Serbian. *Frontiers in Psychology*, *9*, 278.

Rakhlin, N., Hein, S., Doyle, N., Hart, L., Macomber, D., Ruchkin, V., Tan, M., Grigorenko, E.(2017).Sources of homogeneity and heterogeneity in developmental outcomes of children with past and current experiences of institutionalization in Russia: A four-group comparison. *Journal of Orthopsychiatry,* 87(3),pp. 242-255*.* PubMed PMID: [27078048](https://www.ncbi.nlm.nih.gov/pubmed/27078048). Impact Factor: 1.769

Hein, S., Tan, M., Rakhlin, N., Doyle, N., Hart, L., Macomber, D., Ruchkin, V., Grigorenko, E. (2017). Psychological and sociocultural adaptation of children adopted from Russia and their associations with pre-adoption risk factors and parenting. *Journal of Child and Family Studies,* 26(10), pp. 2669–268.

Rakhlin, N., Kornilov, S., Kornilova, T., & Grigorenko, E. (2016). Syntactic complexity effects of Russian relative clause sentences in children with and without developmental language disorder. *Language Acquisition: Journal of Developmental Linguistics, 23(4), pp. 333-360.* PubMed PMID: [28626347](https://www.ncbi.nlm.nih.gov/pubmed/28626347).

Kornilov, S., Rakhlin, N., Koposov, R., Lee, M., Yrigollen, C., Caglayan, A., Magnuson, J., Mane, S., Chang, J., Grigorenko, E. (2016). Genome-Wide Association and Exome Sequencing Study of Language Disorder in an Extended Pedigree. *Pediatrics, 137(4):* e20152469. PubMed PMID: [27016271](https://www.ncbi.nlm.nih.gov/pubmed/27016271).

Rakhlin, N., Hein, S., Doyle, N., Hart, L., Koposov, R., Macomber, D., Ruchkin, V., Strelina, A., Tan, M., Grigorenko, E. (2015). Language development of internationally adopted children: adverse early experiences outweigh the age of acquisition effect. *Journal of Communication Disorders,* 57,pp. 66-80.PubMed PMID: [26385197](http://www.ncbi.nlm.nih.gov/pubmed/26385197/).

Rakhlin, N., Kornilov, S., Reich, J., & Grigorenko, E.L. (2015). Interpretation of anaphoric dependencies by Russian-speaking children with and without Developmental Language Disorder. *Language Acquisition: Journal of Developmental Linguistics,* 22(4), pp. 355-383. PubMed PMID: [26640354.](https://www.ncbi.nlm.nih.gov/pubmed/26640354)

Kornilov, S.A., Magnuson, J.S., Rakhlin, N., Landi, N., & Grigorenko, E.L. (2015). Lexical processing deficits in children with developmental language disorder: an event-related potentials study. *Development and Psychopathology*, 27(2), 459-476. PubMed PMID: [25997765](https://www.ncbi.nlm.nih.gov/pubmed/25997765).

Kornilov, S. A., Landi, N., Rakhlin, N., Fang, S. Y., Grigorenko, E. L., & Magnuson, J. S. (2014). Attentional but Not Pre-Attentive Neural Measures of Auditory Discrimination Are Atypical in Children With Developmental Language Disorder. *Developmental neuropsychology*, *39*(7), 543-567. PubMed PMID: [25350759](https://www.ncbi.nlm.nih.gov/pubmed/25350759).

Rakhlin, N., Cardoso-Martins, C., & Grigorenko, E. L. (2014). Phonemic Awareness Is a More Important Predictor of Orthographic Processing Than Rapid Serial Naming: Evidence From Russian. *Scientific Studies of Reading*, *18*(6), 395-414. PubMed PMID: [25435759](https://www.ncbi.nlm.nih.gov/pubmed/25435759).

Rakhlin, N., Kornilov, S. A., & Grigorenko, E. L. (2014). Gender and Agreement Processing in Children With Developmental Language Disorder. *Journal of Child Language*, 41(2), 241-274. PubMed PMID: [23390959](https://www.ncbi.nlm.nih.gov/pubmed/23390959).

Rakhlin, N., Cardoso-Martins, C., \*Kornilov, S. A., & Grigorenko, E. L. (2013). Spelling well despite language impairment: what makes it possible? *Annals of Dyslexia. 63(3 4),* pp. 253-273. PubMed PMID: [23860907](https://www.ncbi.nlm.nih.gov/pubmed/23860907).

Rakhlin, N., Kornilov, S. A., Paleev, D., Koposov, R. D., Chang, J., & Grigorenko, E. L. (2012). The language phenotype of a small geographically isolated Russian-speaking population: implications for genetic and clinical studies of development language disorder, *Applied Psycholinguistics*. 24(4), 476-496.

Grigorenko, E. L., Kornev, A. N, & Rakhlin, N. (2012). Reading-related skills, reading achievement, and inattention: a correlational study. *Journal of Cognitive Education and Psychology*, 10(2), 140-156.

Rakhlin, N., Kornilov, S., Reich, J., Babyonyshev, M., Koposov, R., & Grigorenko, E. (2011). The relationship between syntactic development and Theory of Mind: evidence from a small-population study of a developmental language disorder. *Journal of Neurolinguistics,* 24(4), 476-496. PMID: [21743776](https://www.ncbi.nlm.nih.gov/pubmed/21743776). Impact Factor: 1.853

Kornev, A. N., Rakhlin, N., & Grigorenko, E. L. (2010). Dyslexia from a cross-linguistic and cross-cultural perspective: The case of Russian and Russia. *Learning Disabilities: A Contemporary Journal*, 8(1), 41-69.

Chapters, Conference Proceedings

Rakhlin*, N. Grigorenko, E.*(2021).Linguistic Diversity: Basic Concepts and Implications for Reading Research. In *Handbook of Literacy in Diglossia and Dialectal Contexts - Psycholinguistic and Educational Perspectives.* Saiegh-Haddad, E., Laks, L., McBride, C. (eds). Springer.

Rakhlin, N. & Progovac, L. (2017). Acquisition of Clausal Structure: The “weakest” continuity view. In J. Nomura (ed). Proceedings of *the 19th Annual International Conference of the Japanese Society for Language Sciences,* Kyoto Women’s University, Kyoto, Japan (pp. 54-57).

Rakhlin, N., Kornilov, S., & Grigorenko, E. (2017). Learning to read in Russian. In Verhoeven, L.T.W. & Perfetti, C. (Eds.), *Reading Acquisition across Languages and Writing Systems: an International Handbook.* Cambridge University Press (pp. 393-415).

Rakhlin, N. & Grigorenko, E. (2015). (A)typical language development: genetic and environmental influences. In Bahr, R. & Silliman E., (Eds.), *Handbook of Communication Disorders.* Routledge (pp. 11-21).

Rakhlin, N. & Grigorenko, E. L. (2014). Language Impairment in Autism Spectrum Disorders.

In Valerie W. Hu (Ed.), *Frontiers in Autism Research: New Horizons for Diagnosis and Treatment* (pp. 47-67). World Scientific.

Kornilov, S.A., Rakhlin, N., & Grigorenko, E.L. (2014). Genetic Basis of Language

Development and Impairment. In P. Brooks, V. Kempe, & J.G. Golson (Eds.), *Encyclopaedia of Language Development* (pp. 236-243). Thousand Oaks, CA: SAGE.

**Funded Research**

Agency: Wayne State University Career Development Chair Award

Title: Language development and impairment in children from an Arabic-speaking diaspora

Number of years: 1 (fall 2023-summer 2024)

Total cost: 19,000 US Dollars

Role: PI

Agency: Sirius Center for Gifted Education, Sochi, Russian Federation

Title: The neuroscience of literacy, a cornerstone of knowledge economies

Number of years: 1 (January, 2021-January 2022)

Total costs: 30,000,000 Rub

Role: Lead Investigator

Agency: Israeli Science Foundation: Individual Research Grant

Research Grant Application no. 454/18

Number of years: 4 (2018-2022)

Direct costs: 264,449 NIS per year

Title: The linguistic profile of preschool Arabic - speaking children with developmental language disorder

Role: Consultant

Agency: Russian Dyslexia Association

Title: Development and approbation of the standardized assessment of literacy skills in 5- to 15-year-old children

Number of years: 1 year (10/2019 – 12/2020)

Role: Investigator

Direct costs: 2,800,000 Rub

Agency: Russian Science Fund, Grant #18-18-00451,

Title: Discovering links between the genome structure, brain development and developmental language disorders

Number of years: 3 (2018-2020)

Direct costs: 16,000,000 Rub for three years

Role: Consultant

Agency: Russian Foundation for Basic Research, Grant #19-013-00912

Title: Neurophysiological and behavioral characteristics of language development in rural and urban Russian-speaking children

Number of years: 3 (2018-2020)

Direct costs: 4,500,000 Rub for three years

Role: Consultant

**Professionally Related Service**

Grant review:

US-Israeli Binational Science Foundation (BSF); February 2021

European Research Council (ERC) Advanced Grants, January 2020

The Netherlands Organization for Scientific Research, Dutch Research Council, 2019

European Research Council (ERC) Advanced Grants 2016

Journal Peer Review: *Psychological Review, Journal of Clinical and Experimental Neuropsychology, Language Acquisition: Journal of Developmental Linguistics, Journal of Child Language, Journal of Speech, Language and Hearing Research, Journal of Psycholinguistic Research, Language Learning and Development, Applied Neuropsychology: Child; Journal of Clinical and Experimental Neuropsychology, Language Learning, Journal of Neurolinguistics, Learning and Individual Differences, Scientific Studies of Reading, Frontiers: Psychology, SAGE Open*

**Selected Talks**

Rakhlin, N. & Yu, J. Acquisition of Chinese sentence-final particles and its implications for the theory of emotional development. Presented remotely at the *Budapest CEU Conference on Cognitive Development (BCCCD 23)*, Central European University, Budapest, January 13th, 2023.

Rakhlin, N. (with Li, N). Speech is golden: the importance of spoken language for learning to read in the context of diglossia. Invited talk at the Research Workshop of the Israeli Science Foundation: *Typical and Atypical Arabic Language Development in Diglossic and Bilingual Contexts.* Bar-Ilan University, Tel Aviv, June 6-8, 2022

Rakhlin, N. Extreme phenotype in the study of specific comprehension difficulties in adolescents. Sirius Symposium, Sochi, April 28th, 2021 (remote)

Rakhlin, N., Your language is just as beautiful: a plenary talk (with Ratliff, M., Liu, H., & Dempsey, J.) in commemoration of Asian American, DESI, and Pacific Islander Months, WSU Office of Multicultural Student Engagement, May 19, 2021

Rakhlin, N. Global linguistic diversity: common myths and dark realities. *2020-2021 Humanities Brown Bag Series*, Wayne State University April 21st, 2021

Rakhlin, N. & Progovac, L. The case of missing subjects in child grammar: absolutive-like stage in language acquisition. *15th* *Annual Meeting of the Slavic Linguistic Society,* Sept. 4-6, 2020 (remote)*.*

Yu, J. & Rakhlin, N. Cultural influences in identifying core symptoms of ASD. *Annual Convention of the American Speech-Language-Hearing Association,* Nov. 15-17, 2018, Boston, MA.

Rakhlin, N. Terminological debates concerning neuro-developmental disorders. *Autism: Choosing a Way Forward.* *Third International Scientific and Practical Conference*, Moscow School of Management, Skolkovo, Russia, Invited plenary talk. October 8th, 2018

Rakhlin, N., What makes us smart: acquisition of clausal structure as cognitive augmenter. *2017-2018 Humanities Brown Bag Series*, Wayne State University, November 8th, 2017, Detroit, MI.