

PERSONAL INFORMATION

Name: Hyönä, Jukka Uolevi
Sex: Male
Orcid ID: 0000-0002-5950-3361
Date of birth: January 10, 1957
Nationality: Finnish

EDUCATION

1993 PhD in Psychology (Thesis entitled “Eye movements in reading and text comprehension”)
Faculty of Social Sciences/ Department of Psychology/ University of Turku/ Finland
1986 Master in Psychology
Faculty of Social Sciences/ Department of Psychology/ University of Turku/ Finland

CURRENT AND PREVIOUS POSITIONS OF PAST 10 YEARS (all at the Department of Psychology, University of Turku)

2012 – Professor
2008 – 2012 University Lecturer
2007 – 2008 Acting Professor
2006 – 2007 Senior Lecturer
2001 – 2006 Academy Research Fellow (funded by Academy of Finland)

FELLOWSHIPS AND AWARDS

- Awarded a Visiting Professorship; Academy of Psychology and Behavior, Tianjin Normal University, China, May 2004
- Top Reviewer in 2008 (Vision Research)
- Part-Time Professorship (2014-); Tomsk State University, Russia
- Suomen Valkoisen Ruusun I luokan ritarimerkki (Order of the White Rose of Finland, Knight First Class)

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- Supervisor of 10 completed doctoral theses for University of Turku (Matti Hannus, Johanna Kaakinen, Lauri Oksama, Lauri Nummenmaa, Seppo Vainio, Pirita Pyykkönen, Tuomo Häikiö, Annu Haapakangas, Eeva-Leena Kataja, Henri Olkonieni) and 1 for Johannes-Gutenberg-Universität Mainz, Germany (Anne Catherine Gieshoff)
- Currently supervising or co-supervising 2 doctoral theses: Oinonen, Eskola (University of Turku)
- Raymond Bertram, Juhani Järvikivi, Lauri Oksama, Johanna Kaakinen, and Seppo Vainio have worked as a post-doc for a 3-year period, Jie Li (Zhejiang University, China) for 1 year, and Maria Kuvaldina (Saint Petersburg State University, Russia) for a few months.

TEACHING ACTIVITIES

- Supervised more than 50 master theses
- Co-authored a high-school textbook on cognitive psychology and written four chapters in university-level textbooks
- Taught courses on cognitive psychology, experimental psychology, psychology of language, research methods and psychological testing
- Coordinator of Nordic-Russian Cooperation Program in Education (2016; funded by Norwegian Centre for International Cooperation in Education)

ORGANISATION OF SCIENTIFIC MEETINGS

- Principal organizer: 11th European Conference on Eye Movements, August 22-25, 2001, Turku
- Principal organizer: 13th Annual Conference on Architectures and Mechanisms for Language Processing, August 24-27, 2007, Turku
- Committee member: 46th Annual Meeting of the Academy of Aphasia, October 19-21, 2008, Turku
- Committee member: 6th Morphological Processing Conference, June 14-17, 2009, Turku
- Committee member: 7th Scandinavian Workshop of Applied Eye-Tracking, June 19-21, 2016, Turku

RECENT ADMINISTRATIVE RESPONSIBILITIES (all at University of Turku)

- Board member of Psykonet (The University Network of Psychology) 2010-
- Board member of the Faculty of Social Sciences 2010-2017
- Board member of the Turku School of Behavioral Sciences 2011-
- Head of Psychology 2010-2017
- Dean of the Faculty of Social Sciences 2015-2017
- Head of the Department of Psychology and Speech-Language Pathology 2017-

COMMISSIONS OF TRUST

Editorial Board Memberships

- Regional Editor of Contemporary Educational Psychology (1996-2000)
- Editorial Board Member of Puhe ja kieli [Speech and Language] (2004-
- Editorial Board Member of Visual Cognition (2005-
- Editorial Board Member of Journal of Eye Movement Research (2007-
- Action Editor for a Special Issue of Language and Cognitive Processes, Journal of Research in Reading, and Journal of Cognitive Psychology

Ad-hoc reviewer for 48 journals: Acta Ophthalmologica; Acta Psychologica; Applied Cognitive Psychology; Applied Psycholinguistics; Attention, Perception & Psychophysics; Behavior Research Methods; British Journal of Educational Psychology; British Journal of Psychology; Cognition & Consciousness; Cognition & Emotion; Cognitive Computation; Cognitive Neuropsychology; Cognitive Research: Principles and Implications; Computers & Education; Contemporary Educational Psychology; Current Directions in Psychological Science; Emotion; Journal of Cognitive Psychology; Frontiers in Psychology; Instructional Science; Italian Journal of Linguistics; Journal of Educational Psychology; Journal of Experimental Psychology: Applied; Journal of Experimental Psychology: Learning, Memory & Cognition; Journal of Experimental Psychology: Human Perception & Performance; Journal of Eye Movement Research; Journal of Memory and Language; Journal of Research in Reading; Journal of Vision; Language and Cognitive Processes; Language and Linguistics Compass; Learning and Instruction; Memory & Cognition; Mental Lexicon; Perception; Perspectives in Psychological Science; PLoS ONE; Psychological Research; Psychological Review; Psychonomic Bulletin & Review; Psykologia; Reading and Writing; Scandinavian Journal of Psychology; Scientific Study of Reading; Spanish Journal of Psychology; Trends in Cognitive Sciences; Quarterly Journal of Experimental Psychology; Vision Research.

Memberships in review panels and expert groups

- Member of the evaluation panel for the Slovenian Research Agency
- Member of the evaluation panel for the Research Council of Lithuania
- Member of the Management Committee of COST Action IS0703 (The European Research Network on Learning to Write Effectively = ERN-LWE)
- Member of the NetWordS (Research Networking program of European Science Foundation) Steering committee
- Member of the Humanities, Social Sciences, and Educational Sciences Expert Panel (Sweden) for the mid-term evaluation of the Linnaeus Grants
- Member of Swedish Research Council's (Vetenskapsrådet) Evaluation Panel for Linguistics (HS-J)

- Deputy Member of the Management Committee of COST Action IS1404 (E-READ: Evolution of reading in the age of digitization)

Ad-hoc reviewer of grant applications for the following agencies: Academy of Finland; Finnish Cultural Foundation; Israel Science Foundation; Leverhulme Trust (UK); Biotechnology and Biological Sciences Research Council (UK); Economic & Social Research Council (UK); Finnish Psychological Society; Royal Society of Edinburgh; Slovenian Research Agency; Deutsche Forschungsgemeinschaft; Natural Sciences and Engineering Research Council of Canada; Austrian Science Fund; Research Council of Lithuania; Research Foundation - Flanders; Swedish Research Council

Evaluator of the report on "Initial training in reading. What does research suggest?" commissioned by the Commission of the European Communities.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- Fellow of the Psychonomic Society (USA)
- Member of the European Society for Cognitive Psychology
- Member of the Experimental Psychology Society (UK)
- Fellow of the Association for Psychological Science (USA)

MAJOR INTERNATIONAL COLLABORATIONS

- Alexander Pollatsek, Dept. of Psychology, Univ. of Massachusetts, USA; 12 joint publications
- Simon Liversedge, School of Psychology, University of Southampton, UK; 7 joint publications
- Manuel Calvo, Department of Psychology, University of La Laguna, Spain, 7 joint publications
- Robert Lorch, Department of Psychology, University of Kentucky, USA; 3 joint publications
- Jie Li, Beijing Sports University, China; 4 joint publications
- Sascha Schröder, Max Planck Institute for Human Development, Berlin, Germany, 2 joint publications, 1 under review

MAJOR RESEARCH ACHIEVEMENTS

My life-time goal is to understand reading as a cognitive process in its entirety, including word recognition, sentence parsing and text comprehension. My primary measure has been eye-tracking. My major achievements: (a) I was the first to use eye-tracking to study the recognition of morphologically complex words (Hyönä et al., 1989; Hyönä & Pollatsek, 1995). (b) I was the first to apply eye-tracking to study comprehension of long expository texts (Hyönä et al., 2002; Kaakinen et al., 2003). (c) I was the first to use eye-tracking to study children's reading at the word-level (Hyönä & Olson, 1995). Outside reading, my major achievements are with my PhD student Nummenmaa on attentional capture by emotional stimuli (Nummenmaa et al., 2006) and my PhD student Oksama, with whom we put forth a theory of multiple identity tracking (Oksama & Hyönä, 2008).

I have published 147 articles or book chapters in international peer-reviewed journals or books, edited 3 internationally published books, published 8 articles in peer-reviewed national journals, 5 chapters in nationally published peer-reviewed books, and 7 nationally published textbooks or chapters in a textbook.

According to *Web of Science* (retrieved Jan. 23, 2019), my h-index is 36 (a total of 3893 citations); according to *Google Scholar* (retrieved Jan. 23, 2019), my h-index is 52 (a total of 7959 citations). Since 2013 the annual number of citations to my work has exceeded 300 in Web of Science.

Ten most cited publications according to *Web of Science*:

1. Nummenmaa, L., Hyönä, J., & Calvo, M.G. (2006). Eye-movement assessment of selective attentional capture by emotional pictures. **Emotion**, 6, 257-268. # of citations: 203
2. Oksama, L., & Hyönä, J. (2004). Is multiple object tracking carried out automatically by an early vision mechanism independent of higher-order cognition? An individual difference approach. **Visual Cognition**, 11, 631-671. # of citations: 148

3. Hyönä, J., & Pollatsek, A. (1998). Reading Finnish compound words: Eye fixations are affected by component morphemes. **Journal of Experimental Psychology: Human Perception and Performance**, 24, 1612-1627. # of citations: 138
4. Hyönä, J., Tommola, J., & Alaja, A.M. (1995). Pupil dilation as a measure of processing load in simultaneous interpreting and other language tasks. **Quarterly Journal of Experimental Psychology**, 48A, 598-612. # of citations: 134
5. Hyönä, J., Lorch, R.F., Jr., & Kaakinen, J.K. (2002). Individual differences in reading to summarize expository text: Evidence from eye fixation patterns. **Journal of Educational Psychology**, 94, 44-55. # of citations: 126
6. Pollatsek, A. Hyönä, J., & Bertram, R. (2000). The role of morphological constituents in reading Finnish compound words. **Journal of Experimental Psychology: Human Perception and Performance**, 26, 820-833. # of citations: 124
7. Hyönä, J., & Olson, R.K. (1995). Eye fixation patterns among dyslexic and normal readers: Effects of word length and word frequency. **Journal of Experimental Psychology: Learning, Memory, and Cognition**, 21, 1430-1440. # of citations: 119
8. Hannus, M., & Hyönä, J. (1999). Utilization of illustrations during learning of science textbook passages among low- and high-ability children. **Contemporary Educational Psychology**, 24, 95-123. # of citations: 111
9. Häikiö, T., Bertram, R., Hyönä, J., & Niemi, P. (2009). Development of the letter identity span in reading: Evidence from the eye movement moving window paradigm. **Journal of Experimental Child Psychology**, 102, 167-181. # of citations: 110
10. Bertram, R., & Hyönä, J. (2003). The length of a complex word modifies the role of morphological structure: Evidence from eye movements when reading short and long Finnish compounds. **Journal of Memory and Language**, 48, 615-634. # of citations: 106

CONTRIBUTION TO CAREER OF EXCELLENT SCIENTISTS

Nearly all of my former PhD students have pursued an academic career: Kaakinen is a University Lecturer (University of Turku), Oksama an Academy Research Fellow (Academy of Finland), Nummenmaa an Associate Professor (University of Turku) and an ERC Starting Grant holder, and Vainio a Researcher (University of Turku). Pyykkönen was a Post-Doc Researcher at the Norwegian University of Science and Technology, after that went to business to work first for SensoMotoric Instruments GmbH (Germany) and later for Siemens (Norway). Of my post-docs not mentioned above, Järvikivi has become a Professor in linguistics (University of Alberta, Canada) and Li has got lectureship (Beijing Sports University, China).