CV Oscar N.E. Kjell
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Personal information

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I develop and validate ways to measure psychological constructs using *psychometrics* and *artificial intelligence* (AI) such as *natural language processing* and *machine learning*. Using AI, as compared with traditional rating scales, we can (more) accurately *measure* psychological constructs; *differentiate* between similar constructs (such as worry and depression); as well as depict the content individuals use to *describe* their states of mind. I am, for example, applying these methods to better understand subjective well-being and to compare harmony in life versus satisfaction with life. I am particularly interested in sustainable well-being; how pursuing different types of well-being might bring about different social and environmental consequences. I am a co-founder of WordDiagnostics, where we apply these AI methods in a decision support system for diagnosing psychiatric disorders.

Education

2012 – 2018 PhD in Psychology (Lund University, Sweden)

2009 – 2010 MSc in Applied Positive Psychology (University of East London, England)

2005 – 2008 BSc Psychology (University of Westminster, England)

2003 – 2004 Practical Philosophy Course A; and Business Course A (Uppsala University, Sweden)

2001 – 2002 Nuclear, Biological and Chemical safety course (Umeå University, Sweden)

Relevant Work Experiences and Teaching

2018 – Ongoing Postdoc at the Department of Psychology and at the Centre for Sustainability Studies (LUCSUS, Lund University, Sweden)

2018 Co-founder of WordDiagnostics, developing a decision support system for psychiatric diagnoses

2016 Committee Member, the Psychology Department Board; Chairperson, the PhD student group

2012 – 2016 Visiting Lecturer at the MSc in Applied Positive Psychology (PT; University of East London, UK)

2009 Visiting Lecturer, Cognitive Psychology and Neuroscience (PT; University of Westminster London, UK)

2008 – 2009 Coordinator at the Psychiatric Rehabilitation Association (London, UK)

Peer-Reviewed Publications

Kjell, O.N.E., Kjell, K, Garcia D., & Sikström S., (2018) Statistically Measuring and Describing Psychological Constructs using Words, not Numbers. *Psychological Methods*.

Marcusson-Clavertz, D., & Kjell, O.N.E. (2018). Psychometric Properties of the Spontaneous and Deliberate Mind Wandering Scales. *European Journal of Psychological Assessment*.

Ivtzan, I., Young, T., Lee, H. C., Lomas, T., Daukantaité, D. & Kjell, O.N.E. (2017) Mindfulness based flourishing program: A cross-cultural study of Hong Kong Chinese and British participants. Journal of Happiness Studies.

Kjell, O.N.E., Daukantaité, D., Hefferon, K., & Sikström, S., (2016). The Harmony in life scale complements the Satisfaction with life scale: Expanding the conceptualization of the cognitive component of Subjective well-being. *Social Indicators Research*.

Garcia, D., Kjell, O.N.E., Sikström, S., & Archer, T. (2016). Using Language and Affective Profiles to Investigate Differences between Individuals. *Clinical and Experimental Psychology*.

Garcia, D., Anckarsäter, H., Kjell, O.N.E., Archer, T., Rosenberg, P., Cloninger, C.R., & Sikström, S. (2015). Agentic, communal, and spiritual traits are related to the semantic representation of written narratives of positive and negative life events. *Psychology of Well-Being*.

Garcia, D., Nima, A.A., & Kjell, O.N.E. (2014). The Affective Profiles, Psychological Well-Being, and Harmony: Environmental Mastery and Self-acceptance Predict the Sense of a Harmonious Life. *PeerJ.*

Kjell, O.N.E., & Thompson, S. (2013) Exploring the impact of positive and negative emotions on cooperative behaviour in a Prisoner's Dilemma Game. *PeerJ.*

Kjell, O.N.E., Nima A.A., Sikström S. Archer, T., & Garcia D., (2013). Iranian and Swedish Adolescents: Differences in Personality Traits and Well-Being. *PeerJ.*

Kjell, O.N.E. (2011). Sustainable Well-Being: A Potential Synergy between Sustainability and Well-Being Research. *Review of General Psychology*. 15(3), 255-266.

PhD Thesis

Kjell, O.N.E. (2018). Conceptualizing and Measuring Well-Being Using Statistical Semantics and Numerical Rating Scales. *Lund University*.

Chapters

Kjell, K., Kjell, O.N.E., Sikström, S. (in press). Semantic Similarity Scales: Using Semantic Similarity Scale to Measure Depression and Worry. In Sikström, S., Willander, J., & Garcia, D. (Eds.) *Statistical Semantics: Methods and Applications*. Springer.

Kjell, K., Kjell, O.N.E., Sikström, S. (in press). Prediction and Semantic Trained Scales: Examining the Relationship Between Semantic Responses to Depression and Worry and the Corresponding Rating Scales. In Sikström, et al.

Kjell, K., Kjell, O.N.E., Sikström, S. (in press). Analyzing using Semantic Excel: An Online Software for Statistical Analyses of Text Data based on Natural Language Processing. In Sikström, et al.

Garcia, D., Nima A.A., Kjell, O.N.E., Granjard, A. & Sikström, S. (in press). The (Mis)measurement of Happiness: Words We Associate to Happiness (Semantic Memory) and Narratives of What Makes Us Happy (Episodic Memory). In Sikström, et al.

Garcia, D., Kjell, O.N.E., & Sikström, S. (2016). A Collective Picture of What Makes People Happy: Words Representing Social Relationships, not Money, are Recurrent with the Word 'Happiness' in Online Newspapers. Chapter in The Psychology of Social Networking. Publisher: DeGruyer Open.

Selected Conference Presentations

Kjell, O.N.E., Daukantaitë, D., Hefferon, K., & Sikström, S. (2014) The Harmony in Life Scale Complements the Satisfaction with Life Scale: Expanding the Conceptualization and Measurement of the Cognitive Component of Subjective Well-Being. *European Conference on Positive Psychology*, Amsterdam, Netherlands.

Kjell, O.N.E., Hefferon K., Garcia D., Sikström S. (2013). Enhancing Environmental and Social Sustainability: Harmony with life as a Complement to Satisfaction with Life. *International Positive Psychology Congress,* Los Angeles, U.S.

Kjell, O.N.E., Garcia D., Sikström S. (2013). Semantic Quantifications of Word-associations to 'Happiness' Predict Satisfaction - Not Emotional Well-Being. *International Positive Psychology Congress,* LA, U.S.A.

Garcia D., Kjell, O.N.E., Sikström S. (2013). The Dark Triad: Happiness and Words Related to Happiness. *International Positive Psychology Congress,* Los Angeles, U.S.

Garcia D., Kjell, O.N.E., Sikström S. (2013). The Happy Update: Self-reported Happiness Linked to Semantic Representations of Status Updates in Facebook. *International Positive Psychology Congress,* L.A., U.S.A.

Moreno, F., Kjell, O.N.E., Andersson Arntén, A-C., Sikström S., Archer, T., Garcia D., (2013). Work Climate and Virtues Predict Positive Emotions and Performance at Call Centers. *International Positive Psychology Congress,* Los Angeles, U.S.

Competitive funding and Awards

2018 Funding from VINNOVA for project entitled "Improving the Diagnostic Accuracy of Psychiatric Disorders using Artificial Intelligence Based on Text Data" (3 294 000 SEK; 2018-02007).

2018 Venture Cup's most prestigious national award *Start up of the year 2018* (100 000 SEK) and their local award *Game changer* (50 000 SEK) with WordDiagnostics.

2018 Lund University and Sparbanken Skåne's Award for Future Innovations, First price (75000 SEK).

2015 Helge Ax:son Johnsons Stiftelse, received 12 000 SEK for research.

Area of Research

Psychometrics; Applications of Artificial Intelligence including Natural language processing and Machine learning in psychological research; Conceptualizing and measuring well-being; Cognitive well-being - Harmony, Satisfaction, Happiness and Meaning in life; Sustainable Well-Being - Social and environmental consequences of pursuing well-being.

Research Tools

Open Science Framework, to preregister studies and upload datasets; Semantic Excel, to analyse word content; R, for example to use lavaan for Confirmatory Factor Analysis and/or (longitudinal) Measurement Invariance analyses; Jspsych, a JavaScript library for creating experiments; Limesurvey, a free and open source software based on HTML and PHP to collect survey data.

Peer reviewing or Editorial Contributions for Journals

Social Indicator Research; Sustainability Science; Frontiers of Psychology; Current Psychology; Environmental Communication.