

Publications

1. Peer reviewed papers

- (96) de Manzano Ö, Kuckelkorn K, Ström K, and Ullén F (in press). Action-perception coupling and near transfer: Listening to melodies after piano practice triggers sequence-specific representations in the auditory-motor network. *Cerebral Cortex*.
- (95) Mosing MA and Ullén F (in press). Genetic and environmental influences. In *The Science and Psychology of Music: From Mozart at the Office to Metallica at the Gym*. ABC-CLIO.
- (94) Mosing MA, Hambrick DZ, and Ullén F (2019). Predicting musical aptitude and achievement: practice, teaching, and intelligence. *Journal of Expertise* 2(3): 184-197.
- (93) Wesseldijk LW, Mosing MA, and Ullén F (2019). The effects of playing music on mental health outcomes. *Scientific Reports* 9(1): 12606.
- (92) Wesseldijk LW, Mosing MA, and Ullén F (2019). Gene-environment interaction in expertise: the importance of childhood environment for musical achievement. *Developmental Psychology* 55(7): 1473-1479.
- (91) Theorell T, Madison G, and Ullén F (2019). Associations between musical aptitude, alexithymia, and working in a creative occupation. *Psychology of Aesthetics, Creativity, and the Arts* 13(1): 49-57.
- (90) Forsberg L, Sigurdsson S, Launer LJ, Gudnason V, and Ullén F (2019). Structural covariability hubs in old age. *NeuroImage* 189: 307-315.
- (89) Ullén F, de Manzano Ö, and Mosing MA (2019). Neural mechanisms of expertise. In *The Oxford Handbook of Expertise: Research & Application*, ed Paul Ward, Jan Maarten Schraagen, Julie Gore, Emelie Roth. Oxford University Press. doi: 0.1093/oxfordhb/9780198795872.013.6
- (88) Theorell T and Ullén F (2018). Music practice and emotion handling. In *Music and Public Health*, ed Lars O. Bonde and Töres Theorell. Springer Verlag, pp. 55-67.
- (87) de Manzano Ö and Ullén F (2018). Genetic and environmental influences on the phenotypic associations between intelligence, personality, and creative achievement in the arts and sciences. *Intelligence* 69: 123-133.
- (86) Theorell T, Harmat L, Eriksson H, and Ullén F (2018). Talking about childhood music: A twin study. *Progress in Brain Research* 237: 279-289.
- (85) Mosing MA and Ullén F (2018). Genetic influences on musical specialization: A twin study on choice of instrument and music genre. *Ann NY Acad Sci* 1423(1): 427-434.
- (84) Hambrick DZ, Burgoyne AP, Macnamara BN, and Ullén F (2018). Toward a multifactorial model of expertise: beyond born vs made. *Ann NY Acad Sci* 1423(1): 284-295.

- (83) de Manzano Ö and Ullén F (2018). Same genes, different brains: Neuroanatomical differences between monozygotic twins discordant for musical training. *Cereb Cortex* 28(1): 387-394.
- (82) Ullén F, Mosing MA, and Hambrick DZ (2018). The Multifactorial Gene-environment Interaction Model (MGIM) of expert performance. In *The Science of Expertise: Behavioral, Neural, and Genetic Approaches to Complex Skill*, ed David Z. Hambrick, Guillermo Campitelli, Brooke Macnamara. Routledge, pp. 365-375.
- (81) Mosing MA, Peretz I, and Ullén F (2018). Genetic influences on musical expertise. In *The Science of Expertise: Behavioral, Neural, and Genetic Approaches to Complex Skill*, ed David Z. Hambrick, Guillermo Campitelli, Brooke Macnamara. Routledge, pp. 272-282.
- (80) Mosing MA, Butkovic A, and Ullén F (2018). Can flow experiences be protective of work-related depressive symptoms and burnout? A genetically informative approach. *Journal of Affective Disorders* 226: 6-11.
- (79) Thompson WF, Mosing MA, and Ullén F (2017). Musical expertise: genetics, experience, and training. In *Routledge Companion to Music Cognition*, ed Richard Ashley and Renée Timmers. Routledge, pp. 415-426.
- (78) Madison G, Ullén F, and Merker B (2017). Metrically structured time and entrainment. In *The Routledge Companion to Embodied Music Interaction*, ed Micheline Lesaffre, Pieter-Jan Maes and Marc Leman. Routledge, pp. 22-30.
- (77) Eriksson H, Harmat L, Theorell T, and Ullén F (2017). Similar but different: Interviewing monozygotic twins discordant for musical practice. *Musicae Scientiae* 21(3): 250-266.
- (76) Holm L, Karampela O, Ullén F, and Madison G (2017). Executive control and working memory are involved in sub-second repetitive motor timing. *Exp Brain Res* 235(3): 787-798.
- (75) Lennartsson A-K, Bojner Horwitz E, Theorell T, and Ullén F (2017). Creative artistic achievement is related to lower levels of alexithymia. *Creat Res J* 29(1): 29-36.
- (74) Madison G, Mosing MA, Verweij KJH, and Ullén F (2016). Common genetic influences on intelligence and auditory simple reaction time in a large Swedish sample. *Intelligence* 59: 157-162.
- (73) Mosing MA, Verweij KJH, Abé C, de Manzano Ö, and Ullén F (2016). On the relationship between domain-specific creative achievement and sexual orientation in Swedish twins. *Arch Sexual Behav* 45(7):1799-806.
- (72) Mosing MA and Ullén F (2016). Genetic influences on musical giftedness, talent and practice. In *Musical Prodigies: Interpretations from Psychology, Music Education, Musicology and Ethnomusicology*, ed Gary E. McPherson. Oxford University Press, pp. 156-167.

- (71) Ullén F, Harmat L, Theorell T, and Madison G (2016). Flow and individual differences – a phenotypic analysis of data from more than 10,000 twin individuals. In: *Flow Experience. Empirical Research and Applications*, eds Harmat, L., Ørsted Andersen, F., Ullén, F., Wright, J., Sadlo, G. Springer Verlag, Switzerland, pp. 267-288.
- (70) Mosing MA, Verweij KJH, Madison G, and Ullén F (2016). The genetic architecture of correlations between perceptual timing, motor timing, and intelligence. *Intelligence* 57: 33-40.
- (69) Verweij KJH, Mosing MA, Ullén F, and Madison G (2016). Individual differences in personality masculinity-femininity: Examining the effects of genes, environment, and prenatal hormone transfer. *Twin Res Human Gen* 19(2):87-96.
- (68) Theorell T, Lennartsson A-K, de Manzano Ö, Pedersen NL, and Ullén F (2016). Self-reported psychological demands, skill discretion and decision authority at work – a twin study. *Scand J Public Health* 44(4):354-60.
- (67) Ullén F, Hambrick DZ, and Mosing MA. (2016) Rethinking expertise: a multifactorial gene-environment interaction model of expert performance. *Psychol Bull* 142(4):427-46.
- (66) Pinho AL, Ullén F, Castelo-Branco M, Fransson P, and de Manzano Ö (2016). Addressing a paradox: Dual strategies for creative performance in introspective and extrospective networks. *Cereb Cortex* 26(7): 3052-3063. doi:10.1093/cercor/bhv130
- (65) Mosing MA, Madison G, Pedersen NL, and Ullén F (2016). Investigating cognitive transfer within the framework of music practice: Genetic pleiotropy rather than causality. *Dev Sci* 19(3):504-12.
- (64) Hambrick DZ, Macnamara BN, Campitelli G, Ullén F, and Mosing MA (2016). A new look at expertise: Beyond the experts are born vs made debate. *Psychology of Learning and Motivation*, vol 64: 1-55.
- (63) Theorell T and Ullén F (2016). Epidemiological studies of the relationship between cultural experiences and public health. In: *Oxford Textbook of Creative Arts, Health, and Wellbeing*, eds. Clift, S. and Camic, P.M. Oxford University Press, London, pp. 55-64.
- (62) Müssgens DM and Ullén F (2015). Transfer in motor sequence learning: effects of practice schedule and sequence context. *Front Human Neurosci*. doi: 10.3389/fnhum.2015.00642
- (61) Bojner Horwitz E, Lennartsson A-K, Theorell T, and Ullén F. (2015) Engagement in dance is associated with emotional competence in interplay with others. *Front Psychol* 6:1096. doi: 10.3389/fpsyg.2015.01096
- (60) Power RA, Steinberg S, Bjornsdottir G, Rietveld CA, Abdelloui A, Nivard MM, Johannesson M, Galesloot T, Hottenga JJ, Willemsen G, Cesarini D, Benjamin DJ, Magnusson PKE, Ullén F, Tiemeier H, Hofman A, van Rooij FJ, Walters GB, Sigurdsson E, Thorgeirsson TE, Ingason A, Helgason A, Kong A, Kiemeneij LA, Koellinger P, Boomsma

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(59) Mosing MA, Verweij KJH, Madison G, Pedersen NL, Zietsch BP, and Ullén F (2015). Did sexual selection shape human music? Testing predictions from the sexual selection hypothesis of music evolution using a large genetically informative sample of over 10,000 twins. *Evolution Hum Behav* 36(5): 359-366.

(58) Harmat L, de Manzano Ö, Theorell T, Högman L, Fischer H, and Ullén F (2015). Physiological correlates of the flow experience during computer game playing. *Int J Psychophysiol* 97: 1-7.

(57) Ullén F, Mosing MA, and Madison G. (2015) Associations between motor timing, music practice, and intelligence studied in a large sample of twins. *Ann N Y Acad Sci* 1337: 125-129.

(56) Theorell T, Lennartsson A-K, Madison G, Mosing MA, and Ullén F. (2015) Predictors of continued music practice – from childhood and adolescence to adult years. *Acta Paediatr* 104(3): 274-284.

(55) Butković A, Ullén F, and Mosing MA. Personality and related traits as predictors of music practice: Underlying environmental and genetic influences (2015). *Personal Individ Diff* 74: 133-138.

(54) Mosing MA, Pedersen NL, Madison G, and Ullén F. (2014) Genetic pleiotropy explains associations between musical auditory discrimination and intelligence. *PLoS One* 9(11): e113874.

(53) Theorell T, Mosing MA, Lennartsson A-K, and Ullén F (2014). Musical activity and emotional competence – a twin study. *Front Psychol* 5: 774.

(52) Mosing MA, Madison G, Pedersen NL, Kuja-Halkola R, and Ullén F (2014). Practice does not make perfect: No causal effect of music practice on music ability. *Psychol Sci* 25(9): 1795-1803.

(51) Pinho AL, de Manzano Ö, Fransson P, Eriksson H, and Ullén F (2014). Connecting to create - expertise in musical improvisation is associated with increased functional connectivity between premotor and prefrontal areas. *J Neurosci* 34(18): 6156-6163.

(50) Ullén F, Mosing MA, Holm L, Eriksson H, and Madison G (2014). Psychometric properties and heritability of a new online test for musicality, the Swedish Musical Discrimination Test. *Personal Individ Diff* 63: 87-93.

(49) Madison G, Karampela O, Ullén F, and Holm L (2013). Effects of practice on variability in an isochronous serial interval production task: asymptotical levels of tapping variability after training are similar to those of musicians. *Acta Psychol* 143: 119-128.

(48) de Manzano Ö, Cervenka S, Jucaite A, Hellenäs O, Farde L, and Ullén F (2013). Individual differences in the proneness to have flow experiences are linked to dopamine D2-receptor availability in the striatum. *NeuroImage* 67: 1-6.

- (47) Magnusson PKE, Almqvist C, Rahman I, Ganna A, Viktorin A, Walum H, Halldner L, Lundström S, Ullén F, Långström N, Larsson H, Nyman A, Hellner Gumpert C, Råstam M, Anckarsäter H, Cnattingius S, Johannesson M, Ingelsson E, Klareskog L, de Faire U, Pedersen NL, and Lichtenstein P (2013). The Swedish Twin Registry – establishment of a biobank and other recent developments. *Twin Res Hum Genet* 16(1): 317-329.
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- (44) Madison G and Ullén F (2012). Statistical learning and prejudice. *Behav Brain Sci* 20: 30-31.
- (43) de Manzano Ö and Ullén F (2012). Activation and connectivity patterns of the presupplementary and dorsal premotor areas during free improvisation of melodies and rhythms. *NeuroImage* 63: 272-280.
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- (40) Ullén F, de Manzano Ö, Almeida R, Magnusson PK, Pedersen NL, Nakamura J, Csikszentmihalyi M, and Madison G (2012). Proneness for psychological flow in everyday life: associations with personality and intelligence. *Personal Individ Diff* 52(2): 167-172.
- (39) Forsman LJ, de Manzano Ö, Karabanov A, Madison G, and Ullén F (2012). Differences in regional brain volume related to the extraversion-introversion dimension – a voxel based morphometry study. *Neurosci Res* 72: 59-67.
- (38) de Manzano Ö and Ullén F (2012). Goal-independent mechanisms for free response generation: creative and pseudo-random performance share neural substrates. *NeuroImage* 59(1): 772-780
- (37) Holmström L, de Manzano Ö, Vollmer B, Forsman L, Valero-Cuevas FJ, Ullén F, and Forsberg H (2011). Dissociation of brain areas associated with force production and stabilization during manipulation of unstable objects. *Exp Brain Res* 215(3-4): 359-367.
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- (34) Harmat L, Ullén F, de Manzano Ö, Olsson E, Elofsson U, von Scheele B, and Theorell T. (2011) Heart rate variability during piano playing: a case study of three professional solo pianists playing a self-selected and a difficult prima vista piece. *Music Med.* 3(2): 102-107
- (33) de Manzano Ö, Cervenka S, Karabanov A, Farde L, and Ullén F. (2010) Thinking outside a less intact box: thalamic dopamine D2 receptor densities are negatively related to psychometric creativity in healthy individuals. *PLoS One* 5(5): e10670.
- (32) Vollmer B, Holmström L, Forsman L, Krumlinde-Sundholm L, Valero-Cuevas FJ, Forssberg H, and Ullén F. (2010) Evidence of validity in a new method to measure dexterity in children and adolescents. *Dev Med Child Neurol* 48(5): 348-352.
- (31) Karabanov A, Cervenka S, de Manzano Ö, Forssberg H, Farde L, and Ullén F. (2010) Dopamine D2 receptor density in the limbic striatum is related to implicit but not explicit movement sequence learning. *Proc Natl Acad Sci U S A* 107(16): 7574-7579.
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- (29) Ullén F, de Manzano Ö, Theorell T and Harmat L. (2010) The physiology of effortless attention: correlates of state flow and flow proneness. In: *Effortless attention: a new perspective in the cognitive science of attention and action*, ed. Bruya, B.J. The MIT Press, Cambridge, MA, USA, pp. 205-218.
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2. Books

- (1) Harmat, L., Ørsted Andersen, F., Ullén, F., Wright, J., Sadlo, G. (Eds.) (2016). *Flow Experience. Empirical Research and Applications*. ISBN 978-3-319-28634-1. Springer Verlag.

3. Popular science, book reviews, essays

- (16) Theorell T and Ullén F (2018). Om känslor och musik. Studier på Tvillingar. I *Musikens makt. RJ:s årsbok 2018. Vänbok till Göran Blomqvist* (ed Björkman J and Jarrick A). Makadam Förlag, pp 33-50.
- (15) Hambrick DZ, Ullén F, and Mosing M (2016). Is innate talent a myth? *Scientific American*, 20 Sept 2016, online edition. <http://www.scientificamerican.com/article/is-innate-talent-a-myth/>
- (14) Theorell T and Ullén F (2016). Vilka samband ser vi mellan kulturaktiviteter och hälsa? In *Kultur och hälsa i praktiken* (ed. Sigurdson O and Sjölander A). Göteborgs Universitet, pp. 49-64.

- (13) Ullén F (2016). Blir jag bättre på annat också av att musicera? Om samband mellan musik och kognitiva förmågor och vad de kan bero på. *Horisont. Tidskrift för Litteratur och Kultur*. 1/2016, 6-10.
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- (11) Theorell T and Ullén F (2015). Kultur och folkhälsa - vilka samband ser vi? I *Kultur & Folkhälsa - antologi om forskning och praktik* (ed Bojner Horwitz E, Hogstedt C, Wistén P, and Theorell T). Tolvnitton Förlag, pp. 15-40.
- (10) Ullén F. Inspiration, skapande och psykisk sjukdom (2013). I *Kroppen i humanioraperspektiv* (ed Palm, A. och Stenström, J.). Makadam Förlag, pp. 23-36.
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- (7) Ullén F. Kreativitet är granne med galenskap (2010). *Tvärsnitt 3: 2010*.
- (6) Ullén F. Den musicerande hjärnan (2009). *Opus 21*, 36-38.
- (5) Ullén F. Frederic Rzewski: Nonsequiturs. Writings and lectures on improvisation, composition, and interpretation. (2009) *Nutida Musik 4/2008-09*, 47-48. [book review]
- (4) Ullén, F. Dreams, truths and responsibilities. (2007). *Nexus 48*, 89-96.
- (3) Ullén, F. Musik har en semantisk komponent. (2005) *Läkartidningen 42*, 102: 3018.
- (2) Ullén, F. Jan Fagius: Hemisfärernas musik. Om musikhanteringen i hjärnan. (2002) *Läkartidningen 1*, 87. [book review]
- (1) Ullén, F. I hjärnan på en pianist: reflexioner kring pianospelet ur neurovetenskaplig synvinkel. (1999) *Nutida musik 2/1999*, 22-27.