

**2011-01-28**

## **2. CV**

### **2.1 Personal Details**

Name: Daniel Arent Västfjäll

Date of birth: February 10, 1975

Sex: Male

### **2.2 Degrees**

- 2010 Docent (Associate Professor) in Psychology, Göteborg University
- 2003 Tekn. Dr (PhD) in acoustics, Chalmers Tekniska Högskola (Affect as a component of perceived sound and vibration quality. Supervisor: Prof. Mendel Kleiner och Prof. Tommy Gärling).
- 2002 Fil. dr. (PhD) in psychology, Göteborg University (Mood and preference for anticipated emotions: Supervisor: Professor Tommy Gärling.)
- 2001 Fil. lic. i psykologi, Göteborg University
- 2001 Tekn. lic. i akustik, Chalmers Tekniska Högskola
- 1997 Msc in Psychology, Göteborg University

### **2.3 Current and Previous Employment**

#### Current

2005- Research Scientist, Decision Research, Eugene Oregon

2004- Assistant Prof in Psychoacoustics, Chalmers University of Technology

#### Previous

2008-2010 Researcher in Psychology Göteborg University

2005-2008 Senior lecturer in Psychology (50% only teaching)

2005- Research Scientist, Decision Research, Eugene Oregon (10%-50%)

2004-2005 Post-doc (70% research, 30% teaching), Psykologiska Inst, Göteborg University

2002-2004 Forskare, Psykologiska institutionen, Göteborgs universitet (Göteborg University).

2003-2004 Forskare, Teknisk Akustik, Chalmers

1997-2003 Projektassistent, Psykologiska institutionen, Göteborgs universitet.

1998-1999 Projektassistent, Psykologiska institutionen, Göteborgs universitet.

### **5.1 Research activities**

My research interests can be categorized into two broad categories: 1) Judgment and decision making, and 2) Emotion and mood. I study research questions at the intersection of these two domains. With a background of dual PhDs in psychology and engineering, I have addressed how emotions may influence cognitive decision processes and judgments about perceptual characteristics of stimuli. I have also been interested in how physical stimuli, such as sounds, pictures, movies and music can be used to induce emotions. In

my research, it has been central to tie basic research findings on emotion to everyday decisions including their policy and product-design implications.

My research on judgment and decision making has focused on the informational and motivational roles of affect. This research program has addressed: 1) how emotions or affect influence judgment and choice, and 2) under what circumstances do affective considerations exert the strongest influence on choice.

In my psychology dissertation (2002), I examined how preferences are formed for different decision options depending on the emotion that the alternative induced. Later, I extended this framework to include why and when people sometimes prefer to experience negative emotions (Västfjäll & Gärling, 2006). Several of the studies from this early research program included studies of incidental mood states and how they affect decision making (Västfjäll et al., 2002, 2004). As a result of this, I have a keen interest in emotion methods, both the induction and measurement of affect. I have written methodological articles about procedures for inducing mood states (Västfjäll, 2002) and the use of implicit measures in emotion research (Västfjäll, 2009) as well as developed scales to measure self-reported affect (Västfjäll et al., 2002; Västfjäll & Gärling, 2007). I have used behavioral data, self-report measures, and psychophysiology (Facial EMG, EDA, HR) in my studies. More recently, I have begun to examine measurement of emotional reactions in decision situations using PET and fMRI methods with colleagues at Uppsala University in Sweden.

A related longstanding interest has been the integration of incidental and integral (affect induced by the decision alternative itself). Together with Ellen Peters and Paul Slovic, I have developed a theoretical framework describing the different effects of integral and incidental affect on judgment and choice. Currently, several studies testing key predictions concerning the relative importance of incidental and integral affect in choice are being written up for publication (Västfjäll & Peters, in preparation; Västfjäll, Peters, & Slovic, in preparation). As PI of an NSF-funded project (SGER grant, 2005-2006), I examined the effects of a national mood (induced by the 2004 Tsunami disaster) on risk perception and decisions (Västfjäll, Peters & Slovic, 2008). I have examined how age influences the relative weight of affective and cognitive considerations in decision making. A review of dual-process theories and aging (Peters, Hess, Västfjäll & Auman, 2007; Peters, Diefenbach, Hess, & Västfjäll, 2008) set the stage for a series of studies on aging and decision making- specifically the role of regret and emotion regulation in older adults decisions (Västfjäll, Peters & Johansson, in review) and the role of thoughtful vs. experience-based decision making among younger adults. I am currently a PI on a two-year NSF project (regret regulation across the lifespan 2008-2010) and have been PI on two three-year projects concerning older adults' decision making funded by the Swedish Council for Social Science Research. I am currently supervising three doctoral students on this topic.

I have participated in a research project on numeracy (or numerical ability) and decision making (PI, Ellen Peters) in which we examined how individual differences in numeracy influenced different components of the decision process (such as framing, risk perception

and proportional reasoning; Peters, Västfjäll, et al., 2006). This research has shown that individuals high and low in numeracy use affect to facilitate number comparisons. However, the sources of affect tend to differ. Highly numerate individuals typically derive meaning and affect from number comparisons whereas those who are numerate often rely on less relevant sources of affect in their judgments. We are currently investigating this particular aspect of number processing further by using psychophysiological methods in my lab in Gothenburg. In more recent publications, we also demonstrated that differences in how numbers on a mental number line have predictable and distinct effects on decision making (Peters, Slovic, Västfjäll et al., 2008). An important aspect of past, present and future research on this topic has been to investigate ways to improve communication of numbers to vulnerable populations such as those low in numeracy or with limited processing capabilities (Peters, Dieckmann, Västfjäll, et al., 2009).

The importance of this research on affect, emotion, and number processing is also highlighted in my research on human well-being and generosity. In a series of studies supported by NSF (Västfjäll, PI), we have examined what motivates donations to support charitable or humanitarian aid. Specifically, we asked a question about why good people, so compassionate towards individuals in need, become apathetic when the number of needy people grows large? A main finding of this research was documenting that compassionate feelings and donations of monetary aid are greatest for one identified person in need and begin to decline when the number grows from one to two (a so-called “collapse of compassion). We have identified the effect using both behavioral and psychophysiological measures (Västfjäll, Peters & Slovic, 2009a). In additional studies we examined the effects of incidental mood on charitable giving and found that a negative mood state leads to an increase in real (but not hypothetical) donations, suggesting that the warm glow obtained by doing something charitable may be sought as a means to offset negative feelings.

In a related line of research on sound perception, my goal has been to investigate how emotion is elicited by sound and music. A first set of series examined the relationship between sound metrics and emotion (2002-2004: dissertation in acoustics 2003); later studies have acknowledged the need to include individual and situational measures.

Recently, we presented a theory of the mechanisms behind emotional responses to sound (Västfjäll, in press, Tajadura & Västfjäll, 2008) and a more elaborated model for music was published as a target article in *Behavioral and Brain Sciences* (Juslin & Västfjäll, 2008). The underlying empirical research that I have conducted in support of this theory has ranged from classical psychophysical studies to field studies using experience sampling. In an experience-sampling study, for example, we are currently examining the complex relationship between exposure to music and health effects (Juslin, Västfjäll & Hartig, in press; Västfjäll et al., 2009). Additional studies have examined multimodal perception, with some studies being motivated by applied needs. Recently, my framework was used to create novel warning and information sounds for use in vehicles (together with industry; Volvo, Saab, Ford, Boeing). As indicated by the number of external research grants (five separate Swedish grants between 2003 and 2008), invited

presentations, invitations to join research consortia), this approach of blending theoretical development and applications has been quite successful.

In the future I plan to continue my work on the integration of perceptual, cognitive, and affective factors in judgment and decision-making. I will continue to examine decision situations of great individual and societal importance (charitable giving, older adults' decision making, and how to improve information communication to vulnerable groups). The work on establishing standardized and improved emotion induction methods will be important for this task so that line of research will continue to run parallel to the main research program. Methodologically, I will include novel neuroscience measures of cognitive and emotional processes in addition to the behavioral, self-report and psychophysiological measures I have used this far.

My teaching thus far has reflected my research interests. I have taught undergraduate and graduate courses in emotion, decision making, social psychology, cognitive psychology, health psychology, perception, and methods. Students in these courses have included psychologists, engineers, and medical students. I have a keen interest in mentoring master and doctoral students and have been successful in this endeavor, having supervised 5 doctoral students to completion of their doctoral dissertations (developing work initiated in my own dissertation and other research). They are now post-docs in various labs (UPF Barcelona, UCL London) or hold research positions in industry (Volvo, Saab, Road and Traffic Institute).

## **5.2 Selected Publications (order in thematic fields)**

Peer-reviewed articles in Scientific Journals (\* indicates articles selected for consideration)

### ***Judgment and decision making***

Slovic, P., & Västfjäll, D. (2010). Affect, moral intuition, and risk. *Psychological Inquiry: An International Journal for the Advancement of Psychological Theory*, 21, 387-398.

Västfjäll, D. Peters, E., & Slovic, P. (in press). Incidental and integral affect in judgment and decisions. *Personality and Social Psychology Compass*.

Peters, E., Dieckmann, N.F., Västfjäll, D., Mertz, C.K., Slovic, P., & Hibbard, J. (2009). Bringing meaning to numbers: The impact of evaluative categories on decisions. *Journal of Experimental Psychology: Applied*, 15, 213-227.

Peters, E., Slovic, P., Västfjäll, D., & Mertz, C. K. (2008). Intuitive numbers guide decisions. *Judgment and Decision Making*, 3, 619-635.

Västfjäll, D., Peters, E., & Slovic, P. (2008). Affect, risk perception and future optimism after the tsunami disaster. *Judgment and Decision Making*, *3*(1), 64-72.

Peters, E., Diefenbach, M., Hess, T.M., & Västfjäll, D. (2008). Age differences in dual information processing: Implications for cancer decision making. *Cancer*, *113*, 3556-3566.

Peters, E., Hess, T. M., Västfjäll, D., & Auman, C. (2007). Adult age differences in dual information processes: Implications for the role of affective and deliberative processes in older adults' decision making. *Perspectives on Psychological Science*, *2*, 1-23.

Peters, E., Västfjäll, D., Slovic, P., Mertz, C. K., Mazzocco, K., & Dickert, S. (2006). Numeracy and decision making. *Psychological Science*, *17*, 407-413.

\*Västfjäll, D. & Gärling, T. (2006). Preference for negative emotions. *Emotion*, *6*, 326-329.

Peters, E., Västfjäll, D., Gärling, T. & Slovic, P. (2006). Affect and decision making: A "hot" topic. *Journal of Behavioral Decision Making*, *19*, 79-85.

Peters, E., & Västfjäll, D. (2005). Affective processes in decision making by older adults. In National Research Council (Ed.), Papers from the workshop on decision making by older adults. Washington, DC: National Academy of Sciences.

Gamble, A., Västfjäll, D., Gärling, T., Marell, A. (2005). Interaction effects of mood induction and nominal representation of price on consumer choice". *Journal of Retailing and Consumer Services*, *12*, 397-406.

Västfjäll, D., Gärling, T. & Kleiner, M. (2004). Preferences for mood, emotional reactions, and anticipated emotional reactions. *Scandinavian Journal of Psychology*, *45*, 27-36.

Västfjäll, D., & Gärling, T. (2002). The dimensionality of anticipated affective reactions to risky and safe outcomes. *Experimental Psychology*, *49*, 228-238.

Västfjäll, D. (2002). Influences of current mood and noise sensitivity on judgments of noise annoyance. *The Journal of Psychology: Interdisciplinary and Applied*, *136*, 357-370.

Västfjäll, D., Gärling, T. & Kleiner, M. (2001). How do I like feeling this way? A core affect account of preferences for current mood. *Journal of Happiness Studies*, *2*, 337-354.

Västfjäll, D. (2001). *Preferences for present and future affective reactions*. Department of Psychology, Göteborg University, Sweden.

Västfjäll, D., & Gärling, T. (2002). Preference for regret, disappointment elation and surprise related to appraisal patterns and core affect. *Göteborg Psychological Reports*, 32, No. 5.

Västfjäll, D. (2002). Differential effects of integral and incidental mood on anticipated emotions. *Göteborg Psychological Reports*, 32, No. 6.

Västfjäll, D., Peters, E., & Bjälkebring, P. (in press). Age differences in experience, anticipation, and regulation of regret. In E. Vinghorts & M. Zeelenberg (Eds.) *Emotion Regulation*. Springer Verlag.

Västfjäll, D. Peters, E., Slovic, P. (in press). Affect and risk in the aftermath of disasters. In P Slovic. (Ed.). *Perception of risk: New directions*. Earthscan: London.

### ***Emotion: theory, measurement, emotion perception***

Tajadura-Jimenez, A., Väljamäe, A., Asutay, E., & Västfjäll, D. (2010). Embodied auditory perception: The emotional Impact of approaching and receding sound sources. *Emotion*, 10, 216-229.

Tajadura-Jimenez, A., Larsson, P., Väljamäe, A., Västfjäll, D. & Kleiner, M. (2010). When room size matters: Acoustic influences on emotional response to sounds. *Emotion*, 10, 416-422.

Bergman, P., Sköld, A., Västfjäll, D., & Fransson, N. (2009). Perceptual and Emotional Categorization of sound. *Journal of the American Acoustical Society*, 126, 3156-3167.

Juslin, P. N., Liljeström, S., Västfjäll, D., Barradas, G., & Silva, A. (2008). An experience sampling study of emotional reactions to music: Listener, music, and situation. *Emotion*, 8, 668-683.

Västfjäll, D., Gärling, T. (2007). Validation of short self-report measure of core affect. *Scandinavian Journal of Psychology*, 48, 233-238.

Tajadura-Jiménez, A., Väljamäe A., & Västfjäll D. (2008). Self-representation in mediated environments: The experience of emotions modulated by auditory-vibrotactile heartbeat. *CyberPsychology and Behavior*, 11(1), 33-38.

Juslin, P. N., & Västfjäll, D. (2008). Emotional responses to music: The need to consider underlying mechanisms. *Behavioral and Brain Sciences*, 31, 559-575.

Juslin, P. N., & Västfjäll, D. (2008). All emotions are not created equal: Reaching beyond the traditional disputes. *Behavioral and Brain Sciences*, 31, 600-612.

- Västfjäll, D. Affective reactions to sounds without meaning. (in press) *Cognition and Emotion*.
- Västfjäll, D., Kleiner, M & Gärling, T. (2003). Core affective reactions to combined effects of interior aircraft sound and vibration. *International Journal of Aviation Psychology*, 13, 33-46.
- Västfjäll, D., Kleiner, M & Gärling, T. (2003). Affective reactions to interior aircraft sound quality. *Acta Acustica*, 89, 693-701.
- Västfjäll, D. (2003). The subjective sense of presence, emotional realism, and experienced emotions in auditory virtual environments. *CyberPsychology and Behavior*, 6, 181-188.
- Västfjäll, D., Gulbol, M-A., Kleiner, M & Gärling, T. (2002). Affective reactions to- and evaluations of interior and exterior vehicle auditory quality. *Journal of Sound and Vibration*, 255, 501-518.
- Västfjäll, D. (2002). Emotion induction through music: A review of the musical mood induction procedure. *Musicae Scientiae*, 6 Special Issue 2001/2002, 171-211.
- Västfjäll, D., Friman, M., Gärling, T & Kleiner, M. (2002). The measurement of core affect: A Swedish self-report measure. *Scandinavian Journal of Psychology*, 43, 19-31.
- Västfjäll, D., Larsson, P, Kleiner, M. (2002). Emotion and the Auditory Virtual environment: Affect-based judgment of reverberation in auditory virtual environments. *CyberPsychology and Behavior*, 5, 19-32.
- Västfjäll, D. (2009). Indirect measures of musical emotions. In P. Juslin & J. Sloboda (Eds.), *Handbook of music and emotion*. New York: Oxford University Press.
- Västfjäll, D. (in press). Emotion and sound design. In F. Mossberg (Ed.), *Sound design*. Lund, Sweden: Lyssnande Lund - Ljudcentrum.
- Tajadura-Jiménez, A., & Västfjäll, D. (2008). Auditory-induced emotion: A neglected channel for communication in human-computer interaction. In C. Peter & R. Beale (Eds.), *Affect and emotion in human-computer interaction*. LNCS, vol. 4868. Springer, Heidelberg.
- Västfjäll, D., Juslin, P. N., & Hartig, T. (in press). Field studies on the relationship between music and health. In R. MacDonald (Ed.). *Music and Health*. Oxford University Press.
- Juslin, P. N., Liljeström, S. Västfjäll, D. & Lundquist, L-O. (2009). How does music evoke emotions? Exploring the underlying mechanisms. In P. N. Juslin & J. Sloboda (eds.). *Handbook of Music and Emotion*. Oxford University Press.

## **Perception**

Väljamäe A., Larsson P., Västfjäll D., & Kleiner M. (2008). Sound representing self-motion in virtual environments enhances linear vection, *Presence: Teleoperators and Virtual Environments*, 17 (1), 43-56.

Genell, A. & Västfjäll, D. (2007). Vibrations can have both negative and positive effects on the perception of sound. *International Journal of Vehicle Sound and Vibration*, 3, 172-184

Väljamäe, A., Larsson, P., Västfjäll, D. & Kleiner, M. (2006). Vibrotactile enhancement of auditory induced self-motion and presence. *Journal of the Audio Engineering Society*, 54. 954-963.

Larsson, P., Västfjäll, D., & Kleiner M (2007). When what you see is what you hear: Auditory-visual integration and presence in virtual environments. *Presence*, s. 11-18.

Fransson, N., Västfjäll, D. & Skoog, J. (2007). In search of the comfortable indoor environment. A comparison of the utility of objective and subjective indicators of indoor comfort. *Building and Environment*, 42, 1886-1890

Västfjäll, D. (2004). The “end effect” in retrospective sound quality evaluation. *Acoustical Science & Technology*, 24, 701-704.

Västfjäll D. (2004). Contextual influences on sound quality evaluation. *Acta Acustica*, 90, 1029-1036.

Västfjäll, D. (2003). Réactions émotionnelles aux sons [emotional reactions to sounds]. *Veille Scientifique Human Engineering*, Septembre 2003, 10-11.

Västfjäll, D., Larsson, P., & Kleiner, M. (in press). Cross-modal interaction in SQ evaluation: Some experiments using the Virtual Aircraft. *Journal of Sound and Vibration*.

Sköld, A., Västfjäll, D., & Kleiner, M. (2005). Objective and subjective dimension of interior sounds emerging from the powertrain. *Acta Acustica*, 91, 349-356.

Västfjäll, D. (2002). The evolved music(al ear): The relationship between music and the hearing mechanism. *Musicae Scientiae*, 6, 26-28.

Larsson, P., Västfjäll, D., & Kleiner, M. (2001). The actor-observer effect in Virtual Reality presentations. *CyberPsychology and Behavior*, 4, 239-246.

Rioux, V & Västfjäll, D. (2001). Analyses of verbal descriptions of the sound quality of a flue organ pipe. *Musicae Scientiae*, 5, 55-82.

Västfjäll, D., Gulbol, M-A., & Kleiner, M. (2003). "Wow, what car is that?" Evaluation of perceived exterior vehicle sound quality. *Noise Control Engineering Journal*, 51, 275-285.

Västfjäll, D., Kleiner, M. & Larsson, P. (in press). Visualization and Auralization in merging: Influence of visual Information on room acoustic perception. *CyberPsychology and Behavior*

Larsson, P., Västfjäll, D., & Kleiner M. (2008). Auditory information consistency and room acoustic cues increases presence in virtual environments. *Acoustical Science and Technology*, 29, 191-194.

Västfjäll, D., Kleiner, M., & Gärling, T. (2006). Subjective reactions to noise and tones in interior aircraft sound sounds. *Journal of the Acoustical Society of America*, s, 3870-3882.

Genell, A. & Västfjäll, D. (2006). Components in low-frequency sound perception. *Journal of Low Frequency Sound, Vibration, and Active Control*, 25, 227-237.

Larsson, P., Västfjäll, D., & Kleiner M. (in press) Audio-visual interaction in concert halls. *Acta Acustica*.

Väljamäe, A., Tajadura-Jiménez, A., Larsson P., Västfjäll D., & Kleiner M. (2008). Handheld experiences: using audio to enhance the illusion of self-motion. *IEEE MultiMedia*, 22, 68-75.

Väljamäe, A., Tajadura-Jiménez, A., Larsson P., Västfjäll D., & Kleiner M. (2008). Binaural bone-conducted sound in virtual environments: Evaluation of a portable, multimodal motion simulator prototype. *Acoustical Science and Technology*, 29(2), 149-155.

Väljamäe, A., Larsson P., Västfjäll D., & Kleiner, M. (2009) Auditory landmarks enhance circular vection in multimodal Virtual Reality, *Journal of Acoustic Engineering Society*, 57(3), 111-120.

Larsson, P & Västfjäll, D. (in press). Emotion-based design of auditory vehicle information signals. *International Journal of Human-Computer Interaction*.

Väljamäe, A. Västfjäll, D., Larsson, P., & Kleiner M. (in press). Perception of sound in mediated environments. *Handbook of Presence*.

Väljamäe, A. Kohlrausch, A. van der Par, S. Västfjäll, D., Larsson, P., & Kleiner M. (in press). Auditory visual interactions in virtual reality . *Handbook of Presence*.

Larsson, P., Väljamäe, A. Västfjäll, D., & Kleiner M. (in press). Auditory induced presence. *Handbook of Presence*.

Larsson, P., Väljamäe, A., Västfjäll, D., Tajadura-Jiménez, A., & Kleiner, M. (in press). Auditory-induced presence in mixed reality environments and related technology. Engineering of mixed reality systems.

Genell, A., Västfjäll, D., Scmelze, A. & Kleiner, M. (in press). Emotional reactions and evaluations of truck sounds. Journal of Automotive Engineering.

**Total number of publications: journal articles (more than 50), proceedings and book chapters with peer-review (excluding presentations and reports without peer-review): 126 publications.**

**Over 90 presentations, including 13 invited papers.**

**Representative working papers**

Västfjäll, D. Juslin, P. N & Hartig. (2010). Salivary cortisol and music listening in everyday life.

Helsing, M. Västfjäll, D. Juslin, P. N & Hartig. T. (2009). Musical emotion in everyday life.

Västfjäll, D., Peters, E. & Johansson, B. (2007). Regret across the lifespan.

Västfjäll, D. Differential effects of integral and incidental mood on anticipated emotions. (accepted pending revisions).

Västfjäll, D. (in review). Ideal affect and choices between emotions.

Västfjäll, D. Ideal affect and preference for discrete emotional states. (accepted pending revision).

Västfjäll, D. Peters, E. & Bjälkebring, P. (submitted). Incidental mood and affective forecasting.

Västfjäll, D. Peters, E., & Slovic, P. (submitted). Affect, existentialism and risk: Differential effects of a natural disaster on risk-benefit perception.

Västfjäll, D & Peters, E. (2009). The relative importance of incidental and integral affect in the construction of prices.

Västfjäll, D., Peters, E., & Starmer, C. (in prep). Numeracy, incidental mood, and the construction of prices.

Västfjäll D., Bjälkebring, P. P., Peters, E. & Johanson, B. (in prep). Predicted and experienced happiness across the lifespan.

Bjälkebring, P. P. & Västfjäll, D. (in prep). Life is miserable today, but tomorrow will be better: Trait happiness and affective forecasting.

Västfjäll, D., Peters, E. & Asutay, E. (in prep). Numeracy, the distance effect and psychophysiological responses to number processing.

Lindvall, J & Västfjäll, D. Affective reactions to aircraft sounds.

Lindvall, J & Västfjäll, D. (2007). Affect and performance in noise.

### **Peer-reviewed conference proceedings**

(Published articles indicated with \*, published abstract indicated with med \*\*)

1998

\*Rioux, V., Yokota, M., Västfjäll, D., Scholz, M., & Kleiner, M. Preliminary study of an organ builder's perception of a flue pipe sound. *In proceedings of ISMA 1998, pp. 174-180, 1998.*

\*Västfjäll, D. & Kleiner, M. Sound quality: Do we base our decisions on emotions? *In proceedings of NAM 98. pp. 221-226, 1998.*

Västfjäll, D. & Kleiner, M. Improvement of the musical mood induction procedure by means of advanced sound reproduction systems. *Paper presented at Geneva Emotion Week 1998, 1998.*

\*Västfjäll, D. Scholz, M., Rioux, V., & Kleiner, M. Psychat---A psychoacoustical test program. *In Proceedings of CIP, 1998.*

1999

\*Ingvarsson, A. & Västfjäll, D. A study on human response to aircraft vibrations in-flight. *In proceedings of AIAA/CEAS V, 1999.*

Gärling, T. & Västfjäll, D. Emotional evaluation of decision outcomes. *Paper presented at EGPROC 18, 1999.*

\*Kleiner, M., Västfjäll, D., & Kristoffersen, R. Subjectively perceived sound quality of loudspeakers. *In proceedings of AES München, 1999.*

\*Rioux, V., Yokota, M., Västfjäll, D. & Kleiner, M. Noise quality of transient sounds: perception of "hiss" in a flue organ pipe. *In proceedings of Forum Acusticum 1999.*

\*Rioux, V., Yokota, M., Västfjäll, D. & Kleiner, M. Noise quality of transient sounds: perception of "hiss" and "cough" in a flue organ pipe. *Acta Acustica, 85, 76.*

\*Scholz, M., Rioux, V., Västfjäll, D., Kleiner, M., Psychat---A program for psychoacoustical tests. *Acta Acustica, 85, 309.*

\*\*Söderholm, M. & Västfjäll, D. The influence of sound quality on expected visual impression. *Acta Acustica, 85, 263.*

\*Västfjäll, D. & Kleiner, M., & Ingvarsson, A. Affective judgment of interior aircraft sound quality. *Acta Acustica, 85, 364.*

Västfjäll, D. Gärling, T., Kleiner, M. *Anticipated emotional outcomes of decisions.* SPUDM 17, Mannheim, 1999.

Västfjäll, D. & Rioux, V. *Sound and Music design*. Paper presented at the Uppsala Music Psychology Lectures Series, Uppsala, 1999.

2000

Larsson, P, Olsson, C, Västfjäll, D, Kleiner, M, & Dalenbäck, B-I.. *Subjective testing of reverberation enhancement systems using virtual reality*. In Proceedings of ICAD, Atalanta, 2000.

\*P. Larsson, D. Västfjäll, M. Kleiner, and K. McFaul: Virtual Acoustics. Presented at the *Nordic Conf. on Virtual Soundscapes*, Skövde, Sweden, September 22-24, 2000.

\*\*Gärling, T, Västfjäll, D., Friman, M., & Kleiner, M. *A Swedish mood adjective check list derived from the affective circumplex*. In proceedings of ICP2000, 2000.

\*Västfjäll, D. *Multimodal perception of organ music: Seeing timbre, feeling pitch, and hearing shape*. In Proceedings of GOArt International Conference, 2000.

\*\*Västfjäll, D, Gärling, T., Friman, M., & Kleiner, M. (2000). A Swedish mood adjective check list derived from the affective circumplex. *International Journal of Psychology*, 35, 318.

2001

\*Larsson, P, Västfjäll, D, & Kleiner, M. *Ecological Acoustics and the multi-modal perception of rooms: Real and unreal experiences of auditory-visual virtual environments*. In Proceedings of ICAD, Helsinki, 2001.

\*Larsson, P, Västfjäll, D, & Kleiner, M. *The (mis-)use of audio in virtual reality* In Proceedings of AVA, Göteborg, Sweden.

\*P. Larsson, D. Västfjäll, and M. Kleiner: Are your ears there? Audio design for virtual environments. Presented at the *European Presence Research Conference 2001*, Technical University Eindhoven, Holland, October 9-10, 2001.

\*Gulbol, M-A., Västfjäll, D., & Kleiner, M. Design of a specific subjective test to characterize the sound quality of exterior car sounds: A preliminary study. In proceedings of ICA 17, Rome.

Västfjäll, D. *Affective reactions to interior aircraft sounds*. Paper presented at the Swedish Environmental Psychology Meeting, Göteborg, 2001.

Västfjäll, D. *Affective reactions to sounds and music*. Paper presented at the Uppsala Music Psychology Lectures Series, Uppsala, 2001.

Västfjäll, D., & Gärling, T. *Preference for regret, disappointment elation and surprise related to appraisal patterns and core affect*. Paper presented at SPUDM 18.

Västfjäll, D., Gärling, T. *Preference for anticipated emotion reaction to decision outcomes*. Paper presented at SPUDM 18.

2002

\*Västfjäll, D., & Kleiner, M. (2002). *Emotion and product sound design*. In *Proceedings of Journées Design Sonore, Paris, 20-21 March 2002*.

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*Västfjäll, D. (2003). Emotional reactions to product sounds. Invited Paper at Journée Human Engineering, Paris June 12, 2003*

\*A Sköld, D Västfjäll, M Kleiner "OBJECTIVE AND SUBJECTIVE PROPERTIES OF POWERTRAIN NOISE IN CAR COMPARTNERS", ICSV, 7-10 July 2003, Stockholm, Sweden sidor 2195-2199.

\*A Genell, D Västfjäll "IMPORTANCE OF INTERIOR LOW FREQUENCY NOISE IN HEAVY TRUCK CABINS FOR WAKEFULNESS AND ANNOYANCE", ICSV10, 7-10 July 2003, Stockholm, Sweden, sidor 2859-2866

\*A Genell, D Västfjäll "IMPRESSIONS AND EFFECTS OF LOW-FREQUENCY HEAVY TRUCK INTERIOR NOISE", ICBEN 2003, 29 June - 3 July 2003, Rotterdam, The Netherlands

\*Kleiner, M. & Västfjäll, D. (2003). *Teaching room acoustics as a product sound quality issue*. Paper presented at ASA spring meeting 2003.

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\*A Genell, D Västfjäll "EFFECTS OF SPECTRAL BALANCE ON ANNOYANCE AND PERCEIVED QUALITY FROM INTERIOR HEAVY TRUCK SOUNDS", ICA2004, 3-10 April, Kyoto, Japan, sidor II:1503-1505

\*A Sköld, D Västfjäll, M Kleiner "PREDICTING CONSUMER PREFERENCE FROM EXPERT SENSORY RATINGS OF SOUNDS", ICA2004, 3-10 April, Kyoto, Japan, sidor II: 1825-1828

\*D Västfjäll, A Sköld, "On the Use of Psychoacoustical and Psychophysical methods to Predict Consumer Preferences for Interior Car Sounds", DAGA04, March, Strasbourg, INVITED PAPER, sidor 24-28.

\*D Västfjäll. Cross modal interaction in SQ evaluation. DAGA04, March, Strasbourg, INVITED PAPER, sidor 24-28.

\*Aleksander Väljamäe, Pontus Larsson, Daniel Västfjäll and Mendel Kleiner: Auditory Presence, Individualized Head-Related Transfer Functions, and Illusory Ego-Motion in Virtual Environments. Proceedings of Presence 2004, 141-147 (2004)

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\*A. Väljamäe, P. Larsson, D. Västfjäll and A.Tajadura, "Effects of vibratory stimulation on auditory induced self-motion". IMRF, Rovereto, Italy, 2005 penhagen, 2005.

\*A Sköld, D Västfjäll, I. Veljanovska. Vibration effects on soudn peception in car. Invited paper. Forum Acusticum, Hungary.

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Västfjäll, D. (2005) Feelings and logic in decision making and communications about risk. Paper presented at Kelloggs Communication Conference, Copenhagen, 2005.

INVITED PAPER

\*Riecke, B. ; Västfjäll, D. ; Larsson, P. et al. (2005). Top-down and multi-modal influences on self-motion perception in virtual reality. *Proceedings of the 11th International Conference on Human-Computer Interaction, 22-27 July 2005, Las Vegas, Nevada, USA* . ISBN/ISSN: 0-8058-5807-5

\*Väljamäe, A. ; Larsson, P. ; Västfjäll, D. et al. (2005). Travelling without moving: Auditory scene cues for translational self-motion. *Proceedings of International Conference on Auditory Display*.

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\*Genell, A. ; Västfjäll, D. (2006). The influence of meaning on noise annoyance from varied spectral. *INTER-NOISE 2006*.

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\*Västfjäll, D. (2006). A relative change between affect and deliberation across time, individuals and situations. Workshop on Affect and Decision Making, Bergen, Norway. INVITED PAPER

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\*\*Västfjäll, D. (2007). Affect, risk and future optimism after the tsunami disaster. Paper Presented at JSM Long Beach.

\*\*Västfjäll, D. (2007). The breakdown of compassion: Affect, images and donations to children in need. Paper presented at SPUDM.

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\*\*Lindvall, J. & Västfjäll, D. Affect in decision by experience and decision by description. *SJDM Chicago*, November, 2008.

- \*\*Västfjäll, D. Slovic, P. Peters. E (2008). Incidental mood and charitable behavior. SJDM Chicago, November, 2008.
- \*Västfjäll, D. (2008). Emotion and sound design. Ljudsymposium Lund. INVITED PAPER
- \*Bergman, P. ; Västfjäll, D. ; ASUTAY, E. et al. (2008). Emoacoustics: sound character versus source meaning in emotional responses to sounds. *Icben 2008*.
- \*A. Sköld, P. Bergman, D. Vastfjall and A. Colebring, *Perception of simple sounds from an emotional point of view*. In *Proceedings of Acoustics08*, J. Acoust. Soc. Am. 123, 3245, Paris, France
- \*Västfjäll, D (2008)., *Cultural variations and constants in emotional reactions to sounds*. In *Proceedings of Acoustics08*, J. Acoust. Soc. Am. 123, 3245, Paris, France. INVITED PAPER
- \*P. Bergman, D. Vastfjall, N. Fransson and A. Sköld, *Emotion and meaning in interpretation of sound sources*. In *Proceedings of Acoustics08*, J. Acoust. Soc. Am. 123, 3245, Paris, France.
- \*D. Vastfjall, E. Asutay, A. Genell and A. Tajadura, *Form and content in emotional reactions to sounds*. In *Proceedings of Acoustics08*, J. Acoust. Soc. Am. 123, 3245, Paris, France.
- \*Tajadura-Jiménez, A., Väljamäe, A., Kitagawa, N., & Västfjäll, D. (2008). Affective multimodal displays: Acoustic spectra modulates perception of auditory-tactile signals. In *Proceedings of the International Conference of Auditory Display, ICAD08*, Paris, France.
- \*Tajadura-Jiménez, A., Väljamäe, A., & Västfjäll, D. (2008). Emotional bias for the perception of rising tones. In *Proceedings of Acoustics08*, J. Acoust. Soc. Am. 123, 3245, Paris, France.

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- \*\*Tajadura-Jiménez, A., Väljamäe, A., & Västfjäll, D. (2009). Emotional Reactions to differently sized auditory spaces. ISRE Lueven, 2009.
- \*\*Västfjäll, D. Juslin, P. N., Liljeström, S & Bergman, P. (2009). Music and self-reported stress. ISRE Lueven, 2009.
- \*\*Bjälkebring, P 6 Västfjäll, D. (2009). Trait affect and affective forecasting. ISRE Leuven, 2009.
- \*\*Liljeström, S. Juslin, P. N. & Västfjäll, D. (2009). Everyday music listening. Music and Emotion, Durham.
- \*\*Västfjäll, D. Peters, E. & Slovic, P. (2009). Psychophysiological responses to victims in need. SPUDM 23, Rovereto Italy.
- \*\* Peters, E. Västfjäll, D. & Slovic, P. (2009). Bringing meaning to numbers: evaluative categories. SPUDM 23, Rovereto Italy.
- \*\*Västfjäll, D. (2009). Äldres beslutsfattande: Problem eller möjlighet? Plenary lecture at AgeWell 2009, Göteborg, Sweden. INVITED PAPER.
- \*\*Västfjäll, D. Peters, E. & Slovic, P. (2009). Psychophysiological responses to victims in need. SJDM 2009, Boston, USA.

### 5.3 Major external research grants

PI indicates Principal Investigator with full scientific responsibility for the entire project.

**2011-2013. Söderberg Stiftelse.** Neural underpinnings of charitable behavior. 2.041.000 SEK. This project examines the neural correlates of charitable decisions. . **Role: PI.** My role is responsibility for the entire project including design, collection, analysis and writing articles

**2010-2012 National Science Foundation.** The Life you can save: affective and deliberative factors motivating charitable giving 427.000 USD. **Role: CO-PI.** This project examines the role of emotion in motivating charitable behavior. My role as project co-director is responsibility of design, collection, analysis and writing articles.

**2009-2012. VR. Organ research** (rambidrag 12.000.000; my part 3.000.000) (Co-PI; Norrback PI). My role as co-PI is responsibility for research on aesthetic perception. Responsibility for all human subjects research, including analysis and design. Mentoring of 1 doctoral student funded through this program.

**2008-2010 Co-PI on grants from Vinnova (Kleiner), SSF (Kleiner) and Formas (Fransson).** My role as co-applicant was responsibility for research on aesthetic perception. Responsibility for all human subjects research

**2009-2010 National Science Foundation.** Regret regulation across the adult life-span. 284.000 USD. **Role: PI.** This project examines the experience and regulation of negative emotion. My role is responsibility for the entire project including design, collection, analysis and writing articles. 1 doctoral student funded through this project.

**2008-2010 AFA försäkring:** Combined effects of noise and temperature of well-being, affect, and performance 4.000.000 Sek. **Role: PI.** This project examines the combined effects of sound and other environmental variables on cognitive performance, emotion and health. My role as project director is responsibility for the entire project including design, collection, analysis and writing articles. 1 Doctoral student is funded through this Project.

**2008-2010 FAS:** Are older adults rational decision makers? (PI) 2.800.000Sek. **Role: PI.** This project investigate age differences in emotion and cognitive processes. My role as project director is responsibility for the entire project including design, collection, analysis and writing articles. 1 Doctoral student is funded through this project.

**2008-2010 Swedish Research Council (VR).** Emotion and perception of virtual environments. 2.700.000 SEK. **Role: PI.** This project examines the role of emotional experience in creating convincing virtual realities. My role as project director is responsibility for the entire project including design, collection, analysis and writing articles. 1 Doctoral student is funded through this project.

**2007-2009 National Science Foundation, US.** “Affect, Images and the (in)decision to act” (PI) 350.000 USD. **Role: PI.** This project examines the role of emotion in motivating charitable behavior. My role as project director is responsibility for the entire project including design, collection, analysis and writing articles.

**2006-2009 Swedish Research Council (VR)** ”Music for health and well-being” (PI). 2.900.000 SEK. **Role: PI** (P. N. Juslin co-director). This project examined the use of music in everyday life and how it influence health. My role as project director is responsibility for the entire project including design, collection, analysis and writing articles. 1 Doctoral student was funded through this project.

**2004-2006 Co-PI on 3 EU-Grants (international), 2 VR (Juslin/Kleiner), 2 FORMAS (Fransson/Waye), 3 NSF (US; Peters/Slovic) and 1 Vinnova (Kleiner) contract.** My role as co-applicant was responsibility for research on aesthetic perception and all human subject research. Responsibility included performing and analyzing data from experiments. Mentoring doctoral students. Writing articles.

**2006-2007 Vinnova** “Design of auditory alerts for vehicles” (PI) 3.000.000 SEK. **Role: PI.** My role as project director was responsibility for the entire project including design, collection, analysis and writing articles. 2 Doctoral students were funded through this project.

**2005-2006 National Science Foundation (NSF), US.** Affect, Risk and decision behavior. SGER grant. **Role: PI.** 99.000 USD. My role as project director was responsibility for the entire project including design, collection, analysis and writing articles.

**2004-2007 Swedish Council for Working Life and Social Research (FAS)** “Affect and Deliberation: differences in decision making between older and younger adults. **Role: PI** 1.800.000 SEK. My role as project director was responsibility for the entire project including design, collection, analysis and writing articles.

**2004-2007 Swedish Research Council (VR)** ”Perceptual optimization of ego-motion perception in Virtual Reality”. **Role: PI.** 2.000.000 SEK. My role as project director was responsibility for the entire project including design, collection, analysis and writing articles. 1 doctoral student was funded through this project.

**Total amount (app in SEK) as a Main applicant (PI) since 2004: 24.000.000**  
**Total amount (app in SEK) including Co-PI: 36.000.000**

#### **5.4 Memberships. Distinctions, Awards**

International Society for Research on Emotions, European Society for the Cognitive Studies of Music, Judgment and Decision Making Society, Emotion & Design Society, Association for Psychological Science, European Association for Decision Making,

## **5.5 Other scientific expertise**

2002-2003 Post-doc at Decision Research, Eugene, OR, USA (supervisors Prof. Paul Slovic and Dr. Ellen Peters)

Since 2003 a research scientist at Decision Research, Eugene, OR, USA. Visit 4-6 times a year to plan and conduct research.

Participation in large number of local (Greg Morrison, Ulrike Rahe, MariAnne Karlsson, Per Fahlen, Niklas Fransson, Catharina Dyrssen, Maria Nyström), national (Patrik Juslin, Terry Hartig, Kerstin Persson-Wayne, Mats Fredriksson) and international (Paul Slovic, Ellen Peters, Michael Posner, Marcel Zeelenberg, Niklas Ravaja, Stefania Serfin, Jens Blauert, Ute Jekosch, Patrik Susini) collaboration projects.

Participation in the main conferences in the field on a yearly basis (attended over 100 conference meetings).

Reviewer for: Organizational Behavior and Human Decision Processes, Scandinavian Journal of Psychology, Cognition and Emotion, Motivation and Emotion, Journal of Behavioral Decision Making, Musicae Scientiae, Journal of Sound and Vibration, Acta Acustica, Journal of the Acoustical Society of America, Psychology and Aging, Neuropsychologia, Emotion, Medical Decision Making, Journal of Personality, Psychology of Music, Psychological Science, European Journal of Cognitive Psychology, Cortex, JAUTO, JPSP, Journal of Personality, Cyberpsychology and Behavior, Handbook of Music and Emotion (Oxford University Press), various book proposals

Co-editor (with Tommy Gärling, Paul Slovic, Ellen Peters) Special issue "Affect and Decision Making" in Journal of Behavioral Decision Making.

## **6.2 Pedagogic studies**

Undergraduate pedagogics (60 hp) 1996-1997

Supervision of doctoral students "VetenskapligHandledning" 5 hp (requirement for docent), 2004

## **6.3 Teaching experience**

2003-2008 Undergraduate (b-level) statistics and research methods 7,5 hp, Department of Psychology, GU Responsible for the course, development of course, examiner. 378 clock hours in front of class.

2000-2008 Cognition, Emotion, Perception, Psychophysics, Decision making, Memory undergraduate (a-c level). Department of Psychology Lecturer in other sections of courses, 281 clock hours in front of class

2004-2008 Doctoral student course 7,5 hp Department of Psychology Nonparametric statistics. Responsible for course and development. 60 clock hours in front of class.

2000- Master student course Human response to sound and vibration, Chalmers University of Technology. Sole lecturer and developer of course, Examiner. 380 Clock hours in front of class.

2002- Various psychophysics and perception courses at undergraduate level and master level at Chalmers, 40 hours in front of class

2002-2003 Doctoral student courses in "Auditory Scene Analysis" (7.5p) and "Perception of Spatial Audio" (15p). Development, lecturer and examiner. (45 hours in front of class)

2008- Doctoral student course in "Measurement with humans", Chalmers, 20 hours in front of class. Development, lecturer and examiner.

2008-2009 Doctoral student course in Emotion: current directions (7,5 hp) and Music and Emotion (7,5 hp), Chalmers, Development, lecturer and examiner. (50 hours in front of class)

2008-2009 Various lectures on affect and decision making at GU, Chalmers, Lund, University of Oregon, Stanford, Caltech

2009 Lecturer on risk and risk perception in course on Genetic counseling, Sahlgrenska

## **6.4 Experience as a supervisor**

### **Undergraduate education**

13 C-level theses, 7 D-level theses at Department of Psychology, Göteborg University  
18 Master theses at Department of Applied Acoustics

### **Research Education (doctoral students)**

Pontus Larsson, Chalmers admitted 2001, dissertation 2006. My role was co-supervisor (main supervisor Mendel Kleiner)

Aleksander Våljamäe, Chalmers, admitted 2004, dissertation 2007. My role was Main supervisor.

Anders Sköld, Chalmers, admitted 2003, dissertation 2008. My role was co-supervisor (main supervisor Mendel Kleiner).

Anders Genell, Chalmers, admitted 2003, dissertation 2008. My role was co-supervisor (main supervisor Mendel Kleiner).

Ana Tajadura Jimenez, Chalmers, admitted 2004, dissertation 2008. My role was Main supervisor.

### **Current supervision of doctoral students**

Penny Bergman, Chalmers, admitted 2007, I am Main supervisor (co-supervisor Niklas Fransson)

Johan Lindvall, Göteborg University, admitted 2005, I am main supervisor (co-supervisor Anders Biel)

Marie Helsing, Göteborg University, admitted 2007, I am co-supervisor (main supervisor Boo Johansson)

Pär Bjälkebring, admitted 2009, I am main supervisor (co-supervisor Boo Johansson)

Erkin Asutay, Chalmers, admitted 2009, I am main supervisor.

## **7. Administrative expertise and management expertise**

### **7.1 Experience of administration**

Leader of own research group at Chalmers with responsibility for personnel and budget issues since 2003. During 2005-2006 full responsibility for Chalmers Room Acoustics Group members (during which Mendel Kleiner was in Troy, USA). Participation in departmental and faculty board meetings on research and education.

Development and maintenance of three different research laboratories at Chalmers.

Participation in governing boards for centre of excellence (H42).

Scientific board for various conferences (HAID09; Haid10).

Participation in steering groups in EU research projects (SVEN; POEMS; PRESENCCIA)

### **7.2 Commissions within research policy**

Reviewer of proposals for national (VR) and International (NSF, USA; NWO, the Netherlands) funding agencies.

### **7.3 Interaction with the community**

Much of the research has industrial benefits and many of the projects carried out in the groups comes from the need (and is funded by) of the industry (Volvo, Saab, Boeing, Electrolux, Intel, Gaming industry). In addition, many activities are initiated with practitioners in building industry, architects, and government agencies. Some of the research in the research group has been implemented in products that exist in the market (cars, trucks, planes). A large network of research contacts, users and interested public has been formed.

### **7.4 Information about research and development**

As a mean of disseminating results and enhance awareness of aesthetic perception I have given a number of open lectures (in addition to presentations at scientific conferences more than 5 times a year) and a have a website that summarize the group's research ([www.emoacoustics.org](http://www.emoacoustics.org)). I have given a number of research talks at different colloquia and at popular science forums like Vetenskapsfestivalen, Ljud forum, Sound design symposium (France) etc.

Interviews and articles about my research have appeared in: The Economist, Foreign Policy, New Scientist, Vetenskapsradion P1, P3 Civilekonomen, Göteborgs-Posten, Måbra, Psykologtidningen, Universitetsläraren, UniversitetsTV, Ratten, P3 Krister. The research group has been featured in GP, Aftonbladet, TV1, Västnytt, Ny teknik etc.