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Tsuyoshi Kuroda, Ph.D.

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Education

Kyushu University, Fukuoka, Japan, April 2007 to March 2010

Ph.D. in Design

Thesis: *The subjective continuity and discontinuity of crossing glide tones* [in Japanese]

Kyushu University, Fukuoka, Japan, April 2005 to March 2007

Master of Design

Niigata University, Niigata, Japan, April 2001 to March 2005

Bachelor of Arts

Research/Work Experience

R&D employee in an automobile company in Japan, April 2017 to present

Assistant Professor (Specially Appointed), Shizuoka University, Hamamatsu, Japan,
April 2016 to March 2017

Researching on *neurophysiological basis of time, rhythm and speech perception*

Research Fellow of Japan Society for the Promotion of Science, April 2013 to March
2016

Researching on *neurophysiological basis of time perception*

Postdoctoral Fellow, École de psychologie, Université Laval, Québec, Canada, April 2010 to February 2013

Researching on *time perception* and *speech perception*

Teaching Experience

Part-Time Instructor, Fukuoka Jo Gakuin University, Fukuoka, Japan, April 2014 to July 2014

Teaching on *perceptual psychology*

Part-Time Instructor, Aso Rehabilitation College, Fukuoka, Japan, September 2007 to March 2010

Teaching on *acoustics* (including *auditory psychology*)

Publications

Selected papers

Kuroda, T., Yoshioka, D., Ueda, T., & Miyazaki, M. (2018). Multiple looks of auditory empty durations both improve and impair temporal sensitivity. *Frontiers in Human Neuroscience*, 12(31), 1-13. doi: 10.3389/fnhum.2018.00031

Kuroda, T., Tomimatsu, E., Grondin, S., & Miyazaki, M. (2016). Perceived empty duration between sounds of different lengths: Possible relation with repetition and rhythmic grouping. *Attention, Perception, & Psychophysics*, 78(8), 2678-2689. doi: 10.3758/s13414-016-1172-x

Kuroda, T., & Miyazaki, M. (2016). Perceptual versus motor spatiotemporal interactions in duration reproduction across two hands. *Scientific Reports*, 6(23365), 1-10. doi: 10.1038/srep23365

Kuroda, T., Nakajima, Y., & Eguchi, S. (2012). Illusory continuity without sufficient sound energy to fill a temporal gap: Examples of crossing glide tones. *Journal of Experimental Psychology: Human Perception and Performance*, 38(5), 1254-1267. doi: 10.1037/a0026629

Papers

--Refereed, in English

Kuroda, T., Yoshioka, D., Ueda, T., & Miyazaki, M. (2018). Multiple looks of auditory empty durations both improve and impair temporal sensitivity. *Frontiers in Human Neuroscience*, 12(31), 1-13. doi: 10.3389/fnhum.2018.00031

Kuroda, T., Tomimatsu, E., Grondin, S., & Miyazaki, M. (2016). Perceived empty duration between sounds of different lengths: Possible relation with repetition and rhythmic grouping. *Attention, Perception, & Psychophysics*, 78(8), 2678-2689. doi: 10.3758/s13414-016-1172-x

Kuroda, T., Grondin, S., Miyazaki, M., Ogata, K., & Tobimatsu, S. (2016). The kappa effect with only two visual markers. *Multisensory Research*, 29(8), 703-725. doi: 10.1163/22134808-00002533

Nakazono, H., Ogata, K., Kuroda, T., & Tobimatsu, S. (2016). Phase and frequency-dependent effects of transcranial alternating current stimulation on motor cortical excitability. *Plos One*, 11, e0162521, 1-13. doi: 10.1371/journal.pone.0162521

Kuroda, T., & Miyazaki, M. (2016). Perceptual versus motor spatiotemporal interactions in duration reproduction across two hands. *Scientific Reports*, 6(23365), 1-10. doi: 10.1038/srep23365

Kuroda, T., Hasuo, E., Labonté, K., Laflamme, V., & Grondin, S. (2014). Discrimination of two neighboring intra- and intermodal empty time intervals marked by three successive stimuli. *Acta Psychologica*, 149, 134-141. doi: 10.1016/j.actpsy.2013.11.013

Hasuo, E., Kuroda, T., & Grondin, S. (2014). About the time-shrinking illusion in the tactile modality. *Acta Psychologica*, 147, 122-126. doi: 10.1016/j.actpsy.2013.06.007

Kuroda, T., & Grondin, S. (2013). No time-stretching illusion when a tone is followed by a noise. *Attention, Perception, & Psychophysics*, 75(8), 1811-1816. doi: 10.3758/s13414-013-0536-8

Kuroda, T., Hasuo, E., & Grondin, S. (2013). Discrimination of brief gaps marked by two stimuli: Effects of sound length, repetition, and rhythmic grouping. *Perception*, 42(1), 82-94. doi: 10.1068/p7186

Kuroda, T., & Grondin, S. (2013). Discrimination is not impaired when more cortical space between two electro-tactile markers increases perceived duration. *Experimental Brain Research*, 224(3), 303-312. doi: 10.1007/s00221-012-3312-4

- Kuroda, T., Nakajima, Y., & Eguchi, S. (2012). Illusory continuity without sufficient sound energy to fill a temporal gap: Examples of crossing glide tones. *Journal of Experimental Psychology: Human Perception and Performance*, 38(5), 1254-1267. doi: 10.1037/a0026629
- Grondin, S., Kuroda, T., & Mitsudo, T. (2011). Spatial effects on tactile duration categorization. *Canadian Journal of Experimental Psychology*, 65(3), 163-167. doi: 10.1037/a0022785
- Sasaki, T., Nakajima, Y., ten Hoopen, G., van Buuringen, E., Massier, B., Kojo, T., Kuroda, T., & Ueda, K. (2010). Time stretching: Illusory lengthening of filled auditory durations. *Attention, Perception, & Psychophysics*, 72(5), 1404-1421. doi: 10.3758/APP.72.5.1404
- Kuroda, T., Nakajima, Y., Tsunashima, S., & Yasutake, T. (2009). Effects of spectra and sound pressure levels on the occurrence of the gap transfer illusion. *Perception*, 38(3), 411-428. doi: 10.1068/p6032

--Refereed, in Japanese

- Kuroda, T., Yoshioka, D., & Miyazaki, M. (2017). A review of literature examining the tau and kappa effects in terms of the relationship with predicted motion velocity. *Japanese Journal of Psychology*, 88(5), 504-517. doi: 10.4992/jjpsy.88.16403

Tutorial review

--Invited, in English

- Kuroda, T., & Hasuo, E. (2014). The very first step to start psychophysical experiments. *Acoustical Science & Technology*, 35, 1-9. doi: 10.1250/ast.35.1

--Invited, in Japanese

- Kuroda, T., Ono, F., & Kadota, H. (2017). Dynamic attending binds time and rhythm perception. *Brain and Nerve*, 69(11), 1195-1202. doi: 10.11477/mf.1416200895

--Refereed, in Japanese

- Kuroda, T., Miyauchi, R., Hasuo, E., & Nakajima, Y. (2008). What one should care when conducting auditory psychological experiments. *Journal of Design*, 9, 63-66.

Book chapter

--in English

- Grondin, S., Hasuo, E., Kuroda, T., & Nakajima, Y. (2017). Auditory time perception. In

R. Bader (Ed.), *Springer Handbook of Systematic Musicology* (pp. 407-424). Heidelberg, Germany: Springer.

Roy, M., Kuroda, T., & Grondin, S. (2011). Effect of space on auditory temporal processing with a single-stimulus method. In P. Strumillo (Ed.), *Advances in Sound localization* (pp. 95-104). Rijeka, Croatia: InTech. doi: 10.5772/14436

Presentations (since 2010)

Talks

--Invited

Kuroda, T., Grondin, S., & Miyazaki, M. (August 24, 2016). Dichotic continuity illusion for steady-state versus frequency-gliding sounds. Technical Session "Evaluation of steady state and unsteady sound" in 45th International Congress and Exposition on Noise Control Engineering (Inter-noise 2016), Hamburg, Germany.

Kuroda, T. (July 29, 2016). Spatiotemporal interactions in perception and action: New approaches to the kappa effect. Invited symposium "Time in the brain (IS29-14, Organizer: Grondin, S.)" in the 31st International Congress of Psychology (ICP2016), Yokohama, Japan.

Kuroda T. (September, 2013) Two possible mechanisms segmenting sounds into perceptual units. *ASIAGRAPH 2013 Forum in Kagoshima Proceedings*, 8, 76-79. (paper in English, presentation in Japanese)

--Unrefereed, in English

Kuroda, T., Grondin, S., Nakajima, Y., & Ueda, K. (October 2012). French and English rhythms are perceptually discriminable with only intensity changes in low frequency regions of speech. The 28th Annual Meeting of the International Society for Psychophysics, Ottawa, Canada.

Kuroda, T., & Grondin, S. (October 2011). Filled duration lengthening takes place in a sound preceded by a more intense sound. Acoustics Week in Canada 2011, Québec, Canada.

Kuroda, T., Hasuo, E., & Grondin, S. (October 2011). Rhythmic grouping and temporal gap discrimination. Acoustics Week in Canada 2011, Québec, Canada.

Nakajima, Y., Kuroda, T., & Terada, T. (October 2010). Auditory events that seem to be formed illusorily from offset cues. The 26th Annual Meeting of the International Society for Psychophysics, Padua, Italy.

Posters

--Refereed, in English

Kuroda, T., Tomimatsu, E., Grondin, S., & Miyazaki, M. (July 2016). Effects of repetition on the isochronous perception of sounds at different lengths. The 31st International Congress of Psychology, PS25P-06-278, Yokohama, Japan.

Kimura, T., Kadota, H., Funai, T-D., Kuroda, T., Iwata, M., Kochiyama, T., & Miyazaki, M. (October 2015). Neural correlates of tactile simultaneity judgment. The 45th annual meeting of the Society for Neuroscience, Chicago, USA.

Kuroda, T., Grondin, S., & Tobimatsu, S. (July 2014). Does spatiotemporal integration occur with single empty time intervals instead of two neighboring intervals in the visual modality? The 36th Annual Conference of the Cognitive Science Society, Québec, Canada.

--Unrefereed, in English

Kuroda, T., & Miyazaki, M. (August 2015). Duration reproduction across two hands: Relation with the kappa effect. The 31st Annual Meeting of the International Society for Psychophysics. Québec, Canada.

Kuroda, T., Miyazaki, M., & Grondin, S. (August, 2015). Dichotic continuity illusion revisited. The 31st Annual Meeting of the International Society for Psychophysics, Québec, Canada.

Kuroda, T., & Grondin, S. (October 2012). Effect of space between fingers on tactile duration discrimination. The 28th Annual Meeting of the International Society for Psychophysics, Ottawa, Canada.

Kuroda, T., & Grondin, S. (June 2012). Tactile temporal processing of empty intervals presented across fingers. Canadian Society for Brain, Behaviour and Cognitive Science, 22nd Annual Meeting, P-1-5, Kingston, Canada.

Kuroda, T., & Grondin, S. (June 2012). A sine tone is perceived as longer when preceded by a noise but not when followed by a noise. Canadian Society for Brain, Behaviour and Cognitive Science, 22nd Annual Meeting, P-1-38, Kingston, Canada.

Grondin, S., Laflamme, V., Bisson, N., Hasuo, E., & Kuroda, T. (October 2011). Testing the scalar property with interval reproductions. The 27th Annual Meeting of the International Society for Psychophysics, Raanana, Israel.

Grondin, S., Kuroda, T., & Mitsudo, T. (October 2010). Effect of the space between tactile stimuli marking empty time intervals on duration categorization. The 26th

Annual Meeting of the International Society for Psychophysics, Padua, Italy.

*Please contact me if you would like to know about my presentations in Japanese.

Awards

Highest award, Psychology Museum, Japanese Psychological Association, November 5, 2016, for a web article on the blind spot (http://psychmuseum.jp/blind_spot/).

Travel award, Fechner Day 2012, The 28th Annual Meeting of the International Society for Psychophysics. October 21, 2012.

Student Award, Kyushu Chapter of the Acoustical Society of Japan. March 28, 2009.

Research Grants

KAKENHI 17K18698 (Grant-in-Aid for Challenging Research (Exploratory)) from Japan Society for the Promotion of Science (JSPS). Principal Investigator: Tsuyoshi Kuroda. April 2017 to March 2020. *Declined on April 2017 due to the change of job.

KAKENHI 16H01502 (Grant-in-Aid for Scientific Research on Innovative Areas “The Science of Mental Time”, Research in a proposed research area) from Japan Society for the Promotion of Science (JSPS). Principal Investigator: Tsuyoshi Kuroda. April 2016 to March 2018. *Declined on April 2017 due to the change of job.

KAKENHI 15K21195 (Grant-in-Aid for Young Scientists (B)) from Japan Society for the Promotion of Science (JSPS). Principal Investigator: Tsuyoshi Kuroda. April 2015 to March 2017.

KAKENHI 13J03275 (Grant-in-Aid for JSPS Fellows) from Japan Society for the Promotion of Science (JSPS). Principal Investigator: Tsuyoshi Kuroda. April 2013 to March 2016.

Peer-reviewing experience

For grants

Vici programme, the Innovational Research Incentives Scheme, the Netherlands

Organisation for Scientific Research (NWO)

For journals

Attention, Perception, & Psychophysics; Journal of Experimental Psychology: General; Journal of Experimental Psychology: Human Perception and Performance; Psychonomic Bulletin & Review; Psychological Research; Acta Psychologica; Scientific Reports; Experimental Brain Research; Behavioural Brain Research; Neuroscience Research; Cognitive Science; Frontiers in Psychology; Frontiers in Integrative Neuroscience; and Acta Acustica united with Acustica.

For conferences

Cogsci 2014, 2015, 2017

Computer skills

Visual Basic, Presentation, E-prime, SPSS, R, Praat, Audition, gnuplot, Word, Excel, Power Point.

Memberships

Japanese Psychological Association, since April 2008

Acoustical Society of Japan, since August 2006

Japanese Psychonomic Society, since March 2006