

Gewnhi Park

CONTACT INFORMATION

Department of Psychology
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Westmont College
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APPOINTMENTS

Associate Professor (2021-present)
Westmont College Department of Psychology

Associate Professor (2019-2021)
Hope College Department of Psychology

Assistant Professor (2012-2018)
Azusa Pacific University Department of Psychology

Postdoctoral Fellow (2010-2011)
Inje University Paik Hospital

Postdoctoral Fellow (2009-2010)
The Ohio State University Department of Psychology

EDUCATION

2009	Ph.D. in Cognitive Psychology The Ohio State University, Columbus, Ohio University Distinguished Fellowship
2006	M.A. in Cognitive Psychology The Ohio State University, Columbus, Ohio
1998	B.S. summa cum laude in Psychology with honors State University of New York, Stony Brook, New York

PUBLICATIONS

Impact ($H_{\text{index}} = 14$; $i10_{\text{index}} = 13$)

The papers below have been cited over 1037 times (Google Scholar)

*** Indicates undergraduate student at the time the research was conducted**

Peer Reviewed Articles

Park, G., Inman, M. L., *Boyle, E., Kim, N., *Thompson, A., Williams, D. P., & Thayer, J. F. (2022). Heart's eyes to see color: Cardiac vagal tone modulates the impact of ethnicity on selected attention under high load. *International Journal of Psychophysiology*, 176, 27-35.

Park, G., Kim, H., Mermillod, M., & Thayer, J. F. (2021). The Modulation of Cardiac Vagal Tone on Attentional Orienting of Fair-Related Faces: Low HRV is Associated with Faster Attentional Engagement to Fair-Relevant Stimuli. *Cognitive, Affective, Behavioral Neuroscience*.

Park, G., vanOyen-Witvliet, C., Barraza, J. A., Marsh, B. U. (2021). The Benefit of Gratitude: Trait Gratitude is Associated with Effective Economic Decision-Making in the Ultimatum Game. *Frontier in Psychology*, 12.

Trammel, R. C., **Park, G.**, & *Karlsson, I. (2020). Religiously oriented mindfulness for social workers: effects on mindfulness, heart rate variability, and personal burnout. *Journal of Religion & Spirituality in Social Work: Social Thought*, 1-20.

Park, G., Marsh, B. U., & Johnson, E. J. N. (2019). Enhanced Memory for Fair-Related Faces and the Role of Trait Anxiety. *Frontiers in psychology*, 10, 760.

Park, G., Kappes, A., Rho, Y., & Van Bavel, J. J. (2016). At the Heart of Morality Lies Neuro-Visceral Integration: Lower Cardiac Vagal Tone Predicts Utilitarian Moral Judgment. *Social Cognitive and Affective Neuroscience*. 11, 1588-1596.

Park, G., Van Bavel, J. J., Hill, L. K., Williams, D. P., & Thayer, J. F. (2016). Social groups prioritize selective attention to faces: How social identity shapes distractor interference. *PLoS ONE*, 11, e0161426

Park, G., Vasey, M. W. *Kim, G., Hu, D. D., & Thayer, J. F. (2016). Trait anxiety is associated with negative interpretations when resolving valence ambiguity of surprised faces. *Frontier in Psychology*. 7, 1164.

Shim, M., Kim, D-W., Yoon, S., **Park, G.**, Im, C-H., Lee, S-H. (2016). Influence of spatial frequency and emotion expression on face processing in patients with panic disorder. *Journal of Affective Disorder*. 197, 159-166.

Lee, J. S., **Park, G.**, Song, M. J. Choi, K-H., Lee, S-H. (2015). Early visual processing for low spatial frequency fearful face is correlated with cortical volume in patients with schizophrenia. *Neuropsychiatric Disease and Treatment*. 12, 1-14.

Park, G., & Thayer, J. F. (2014). From the heart to the mind: Cardiac vagal tone modulates top-down and bottom-up visual perception and attention to emotional stimuli. *Frontiers in Psychology*. 5, 1-8.

Park, G., Vasey, M., Van Bavel, J. J., & Thayer, J. F. (2014). Tonic Cardiac Vagal Tone Predicts Changes in Phasic Cardiac Vagal Activity during Emotional Challenges. *Psychophysiology*. 51, 419-426.

Park, G., Van Bavel, J. J., Vasey, M., & Thayer, J. F. (2013). Cardiac vagal tone predicts attentional engagement to and disengagement from fearful faces. *Emotion*, 13, 645-656.

Park, G., Vasey, M., Van Bavel, J. J., & Thayer, J. F. (2013). Cardiac vagal tone is correlated with selective attention to neutral distractors under load. *Psychophysiology*, *50*, 398-406.

Park, G., Moon, E., Kim, D., & Lee, S. (2012). Individual differences in cardiac vagal tone are related to neural responses to facial expressions at different spatial frequencies: An ERP and sLORETA study. *Cognitive, Affective, Behavioral Neuroscience*. *12*, 777–793.

Park, G., Van Bavel, J. J., Egan, E. J. L., Vasey, M., & Thayer, J. F. (2012). From the heart to the mind's eye: Cardiac vagal tone is related to visual perception of fearful faces at high spatial frequency. *Biological Psychology*, *90*, 171-178.

Park, G., Van Bavel, J. J., Vasey, M. W., & Thayer, J. F. (2012). Cardiac vagal tone predicts inhibited attention to fearful faces. *Emotion*. *12*(6), 1292-1302.

Kim, J.-S., Lee, S.-H., **Park, G.**, Kim, S., Base, S.-M., Kim, D.-W., & Im, C.-H. (2012). Clinical implications of quantitative electroencephalography and current source density in patients with Alzheimer's disease. *Brain topography*, *25*(4), 461-474.

Lee, S. H., & **Park, G.** (2011). Psychophysiological markers of anxiety disorders and anxiety symptoms. In V. Kalinin (Ed.), *Anxiety Disorders* (pp.203-226). InTech. ISBN: 978-953-307-592-1.

Choi, K. M., Min, J. A., **Park, G.**, Lee, S.-H., Chae, J.-H. (2011). The effects of horizontal eye movement on mental health indices and psychophysiological activities in healthy subjects. *Korean Journal of Biological Psychiatry*, *18*, 148-158

Other working papers

Park, G., & Conway, P. (in progress). The Dual Processing: The Bridge between Moral Judgment and Economic Decision Making.

Park, G., Thayer, J. F., Ratcliff, R., White, C. N. (in progress). A diffusion model account of the relationship between cardiac vagal tone and perceptual discrimination of fearful faces at high spatial frequency.

PRESENTATIONS

Park, G., & Roberson, C. (2022). Heart Rate Variability Modulates Task Performance on Identifying Negative Words Superimposed on Racially in-Group Faces. Poster accepted to be presented at the 2022 APS Annual Convention in Chicago, IL.

Park, G., & Grenko, L. (2022). Back Depressive Inventory (BDI) Scores Were Negatively Associated with Identification of Trustful Faces at Low Spatial Frequency (LSF). Poster accepted to be presented at the 2022 APS Annual Convention in Chicago, IL.

*Thompson, A., & **Park, G.** (2021) Victims in Plain Sight: Cardiac Vagal Tone Predicts Selected Attention with Other-race Faces Under High Load. Research talk presented at Midstates Consortium Student Research Symposia. Virtual Convention.

Park, G.(2020). The Modulation of Cardiacvagal Tone on Attentional Orienting of Fair-Related Faces: Low HRV Is Associated with Faster Attentional Engagement to Fair-Related Stimuli. Poster to be presented at the 32th APS Annual Convention in Chicago, IL.

Park, G., *Escobar, C., & *Lopez, Z. S. (2018). The Stronger Utilitarian Moral Judgment, the More Acceptance to Unfair Offers in the Ultimatum Game (UG). Poster presented at the 30th APS Annual Convention in San Francisco, CA.

Park, G., *Johnson, E., *Chun, D-E., *Guyer, J., Hester, B., & *Valver, A. (2017). Victims in plain sight: The stronger deontological moral judgment, the Lower Cardiac Vagal Tone. Poster presented at the 29thAPS Annual Convention in Boston, MA.

Park, G., *Johnson, E., *Chun, D-E., & *Kubanik, V. (2017). Prioritized Attention and Superior Memory for Fairness-Relevant Stimuli and the Role That Cardiac Vagal Tone Plays in Attentional Engagement. Poster presented at the 29thAPS Annual Convention in Boston, MA.

Park, G., *Johnson, E., *Chun, D-E., *Guyer, J., *Hester, B., & *Valver, A. (2017). The effect of gratitude on economic decision-making in the Ultimatum game (UG). Poster presented at the 29thAPS Annual Convention in Boston, MA.

*Coil, C., *Kubanik, V., & **Park, G.** (2016). The Effects of Mood and Depression on the Interpretation of Emotionally Ambiguous Stimuli. Poster presented at the 28thAPS Annual Convention in Chicago, IL.

Park, G., *Slama, M., *Ho, M., & *Murarik, M., (2016). Cardiac Vagal Tone: A Physiological Correlate of Attentional Flexibility of Fairness and Unfairness. Poster presented at the 28thAPS Annual Convention in Chicago, IL.

Park, G., *Gan, S., *Slama, M., *Bledsoe, B., & *Kriege, M. (2016, January). Gratitude leads to rational economic decision-making. Poster presented at the annual meeting of the Society for Personality and Social Psychology, San Diego, CA

Park, G., *Hennig, N. F., *DiSpaltro, H., & *Ju, S-K. (2015). Does fairness guide spatial attention? Poster presented at the 27thAPS Annual Convention in New York, NY.

Park, G., *Hennig, N. F., *DiSpaltro, H., *Cameron, C., *Griffin, N., & *Lee, H. (2015). Cardiac vagal tone is associated with utilitarian moral judgment. Poster presented at the 27thAPS Annual Convention in New York, NY.

Park, G., Castaneda, R., Novoa, V., Penate, J., Chudzynski, J., Rawson, R. (2014). The cost of breaking bad: Methamphetamine dependence is associated with reduced cardiac vagal tone, impaired cognitive function, and maladaptive emotional reactivity. Poster presented at the 26th APS Annual Convention in San Francisco, CA.

Park, G., *Pasco, M., *Lozano, M. A., *Folkerts, M., & *Jesser, M. (2014). The Heart Sees What The Eyes Don't See: Cardiac Vagal Tone Is Associated with Positive And Negative Interpretation Biases. Poster presented at the 26th APS Annual Convention in San Francisco, CA.

Park, G., *Pasco, M., *Lozano, M. A., *Folkerts, M., & *Jesser, M. (2014). Trait anxiety is associated with negative interpretations when resolving valence ambiguity of surprised faces. Poster presented at the 26th APS Annual Convention in San Francisco, CA.

Park, G., Van Bavel, J. J., Hill, L., *Williams, D., Thayer, J. F., Pasco, M. (2014). When does race become a distraction? Group membership and perceptual load influence distractor interference. Poster presented at the 26th APS Annual Convention in San Francisco, CA.

Park, G., *Fabro, D. C., & *Custer, K. M. (2013). The Contextual Effect of Emotion on Emotional Memory. Poster presented at the 25th APS Annual Convention in Washington, D.C.

Park, G., *Kim, Y., & *Piontkowsky, P. (2013). Cardiac vagal tone is associated with visual perception of happy faces at low spatial frequency. Poster presented at the 25th APS Annual Convention in Washington, D.C.

Park, G., Van Bavel, J. J., Vasey, M. W., & Thayer, J. F. (2013). Cardiac vagal tone predicts attentional engagement to and disengagement from fearful faces. Poster presented at the 25th APS Annual Convention in Washington, D.C.

Park, G., *Moon, E., *Kim, D., & *Lee, S. (2013). Individual differences in cardiac vagal tone are related to neural responses to facial expressions at different spatial frequencies: An ERP and sLORETA study. Poster presented at the 41th Annual Meeting of the International Neuropsychological Society in Waikoloa, Hawaii.

Park, G., Lee, S-H., Moon, E., Moon, Y-J., Kim, S. (2012). Individual differences in cardiac vagal tone modulates ERP responses to fearful faces at low spatial frequency. Poster presented at the annual meeting of Cognitive Neuroscience Society, Chicago, IL.

Kim, J-S., Lee, S-H., **Park, G.**, Kim, S., Kim, D-W., Im, C-H., & Bae, S-M. (2011, September). Clinical implication of qEEG and current source density in patents with Alzheimer's disease. Poster presented at the 2nd Congress of Asian College of Neuropsychopharmacology, Seoul, Korea

Hu, D., **Park, G.**, Hill, L., Williams, D., Plaskett, S., & Thayer, J. F. (2011). Heart rate variability and perception of emotion: Processing positive facial expressions. Poster to be presented at the annual meeting of the American Psychosomatic Society, San Antonio, TX.

Madzsar, S. & Williams, D.P., Cochran, J., Hu, D., **Park, G.** (2011, May). The race of distractor reverses the effect of perceptual load on distractor interference. Poster presented at the 83rd Midwestern Psychological Association Annual Conference, Chicago, IL.

Park, G., Vasey, M. W., Egan, E., & Thayer, J. F. (2011, February). Effects of Heart Rate Variability on Top-down and Bottom-Up Processes Involved in Attentional Engagement and Disengagement for Fearful Faces at Broad, High, and Low Spatial Frequency. Poster accepted at the 39th Annual Meeting of the International Neuropsychological Society in Boston, Massachusetts.

Park, G., Vasey, M. W., & Thayer, J. F. (2011, February). Not All Fear Faces Are Created Equal: HRV Effects on Collicular and Cortical based IOR for Fearful Faces Created at Broad, High and Low Spatial Frequency. Poster accepted at the 39th Annual Meeting of the International Neuropsychological Society in Boston, Massachusetts.

Park, G., Egan, E., Vasey, M. W., & Thayer, J. F. (2010). Vagal influence on perceptual processing of fearful faces presented at different ranges of spatial frequency in different types of categorization tasks. Poster accepted at the 15th World Congress of Psychophysiology, Budapest, Hungary.

Park, G., Vasey, M. W., & Thayer, J. F. (2010). Vagal influence on emotion-modulated selective attention under high and low load. Poster accepted at the 15th World Congress of Psychophysiology, Budapest, Hungary.

Wiens, S., **Park, G.**, Katkin, E. S., Rajaram, S., Kelsey, R. M. (1998). Physiological detection of deception and the false memory phenomenon. Presented at the meeting of the Society for Psychophysiological Research, Denver, CO.

Teaching

Westmont College

Capstone Senior Research – Psych I
 Capstone Senior Research – Psych II
 General Psychology
 Cognitive Psychology with Lab.
 Psychology of Learning and Memory
 Research Methods

Hope College

General Psychology
 Cognitive Psychology

Azusa Pacific University

Neurological and Behavioral Disorder
 Overall instructor evaluation in Spring 2018 = 4.6/5
 Research Methods Practicum
 Overall instructor evaluation in Fall 2016 = 4.8/5
 Overall instructor evaluation in Spring 2018 = 4.9/5
 Research Methods
 Overall instructor evaluation in Fall 2013 = 4.1/5
 Overall instructor evaluation in Summer 2013 = 4.3/5

Overall instructor evaluation in Fall 2015 = 4.1/5
Overall instructor evaluation in Fall 2016 = 4.2/5
Overall instructor evaluation in Fall 2017 = 4.3/5

Cognition

Overall instructor evaluation in Spring 2012 = 4.3/5
Overall instructor evaluation in Fall 2013 = 4.5/5
Overall instructor evaluation in Spring 2013 = 4.4/5
Overall instructor evaluation in Fall 2014 = 4.2/5
Overall instructor evaluation in Spring 2014 = 4.5/5
Overall instructor evaluation in Fall 2015 = 4.6/5
Overall instructor evaluation in Spring 2016 = 4.6/5
Overall instructor evaluation in Spring 2017 = 4.6/5

General Psychology

Overall instructor evaluation in Spring 2012 = 4.6/5
Overall instructor evaluation in Spring 2013 = 4.7/5
Overall instructor evaluation in Fall 2014 = 4.5/5
Overall instructor evaluation in Spring 2014 Honors = 4.3/5
Overall instructor evaluation in Spring 2014 = 4.3/5

The Ohio State University

Introduction to Psychology

Overall instructor evaluation in Fall 2007 = 4.6/5
Overall instructor evaluation in Winter 2007 = 4.6/5
Overall instructor evaluation in Spring 2008 = 4.4/5

SERVICE

Azua Pacific University

Student Advising and Event Coordinator
Adjunct Faculty Training and Mentor Coordinator
Search Committees
Curriculum Review Committees
Masters Thesis Committee
Masters Career Development Committee
Undergraduate General Council
Program Review Committee

AD HOC JOURNAL REVIEWING

Anxiety, Stress, & Coping; Biological Psychology; Cognitive, Affective, and Behavioral Neuroscience; Emotion; Journal of Experimental Social Psychology; Nature Communication; NeuroImage; Physiology and Behavior; Psychophysiology; Frontier in Psychology

GRANTS

Reduced cardiac vagal tone is associated with addictive behavior in young adults. (2012-2013). Faculty research council research grant (co-PIs Rachel Castaneda):

\$3,000.

Cardiac vagal tone modulates the effect of oxytocin on autonomic flexibility and social and affective cognition. (2013-2014). Faculty research council research grant: \$3,000.

Cardiac vagal tone modulates the effect of social cues on selective attention and bilingual language processing. (2015-2016). Faculty research council research grant (co-PIs Benjamin Marsh, Gewnhi Park): \$ 4,942.

From the heart to the mind: Cardiac vagal tone modulates top-down and bottom-up visual perception and attention to emotional stimuli. (2015-2016). Faculty research council research grant (Publication assistance grant-PI Gewnhi Park): \$ 1,200.

Effects of Christian mindfulness training on heart rate variability, levels of mindfulness, and perceived stress of students at a Christian university. (2017-2018). Faculty research council research grant: \$ 2,000.

Social groups prioritize selective attention to faces: How social identity shapes distractor interference. (2017-2018). Faculty research council research grant (Publication assistance grant-PI Gewnhi Park): \$ 800.

The Impact of Self-Regulation on Political Mind. (summer 2020) The Andrew W. Mellon Foundation Faculty Development Fund at Hope College: \$3,488.