Junha Chang

Curriculum Vitae

Department of Psychological and Brain Sciences junhachang@umass.edu
University of Massachusetts Amherst
Tobin Hall Room 523
135 Hicks Way
Amherst MA 01003-9271

EDUCATION

University of Massachusetts Amherst, Amherst, MA, USA, 2014 – present
Graduate student in Department of Psychology and Brain Sciences
M.S. in Psychology, 2017
M.S. Thesis title: Search Guidance Can Be Adjusted by Experience with Search Discriminability (Advisor: Kyle R. Cave, Ph.D.)

Chung-Ang University, Seoul, South Korea, 2007 – 2014
M.A. in Psychology, concentration in Cognitive Psychology, 2013
M.A. Thesis title: Characterizing the Process of Representing a Target Template in Visual Search (Advisor: Joo-Seok Hyun, Ph.D.)
B.A. in Psychology/Minor in English Language and Literature, 2011
B.A. Thesis title: Additive Characteristics of Visual Working Memory Process for Sequentially-Displayed Memory Items. (Advisor: Joo-Seok Hyun, Ph.D.)

AWARD AND HONORS

Graduate Travel Award for "Experience with Difficult Dual-Color Search Can Promote a Shift to A Single Range Target Representation" in Psychonomic Society in Montreal, Canada, November 2019
Invited Panel As an Outstanding International Teaching Assistant in "International TAs and Cross-Cultural Teaching Issue" in Graduate Student Orientation, University of Massachusetts Amherst, August 2018
Travel Grants, Poster presentation in Psychonomic Society in Boston, MA. University of Massachusetts Amherst (P.I.: Kyle R. Cave, Ph.D.), 2016
Assistantship for an Exchange Student at Sister Universities, Chung-Ang University, 2010
Work-study Grant A, Chung-Ang University, South Korea, 2008
Sophomore Class Representative, Psychology Department, Chung-Ang University, South Korea, 2008

PUBLICATIONS

Menneer, T., Cave, K. R., Kaplan, E., Stroud, M. J., **Chang, J**., & Donnelly, N. (*2019)* The dual-target cost in visual search guidance cannot fully accounted for by working memory. *Journal of Experimental Psychology: Human Perception and Performance.*

Cave, K. R., & **Chang, J**. (2018) Spatial attention. Oxford bibliographies.

Chang, J., & Hyun, J. -S. (2014). The effect of an interval between target pre-cue and search array onset on the formation of a target template. *The Korean Journal of Cognitive and Biological Psychology*, 26(4), 255-272

Chang, J., & Hyun, J. -S. (2012). The effect of spatio-temporal contextual information in visual working memory on change detection process. *The Korean Journal of Cognitive and Biological Psychology,* 24(2), 167-189.

RESEARCH EXPERIENCE

Graduate Research Assistant, Accelerating Teen Driver Learning: Anywhere, Anytime Training, (P.I.: Donald L. Fisher, Michael Knodler, Siby Samuel, Ph.D.), 2016 summer

Graduate Research Assistant, Localizing the Control of Visual Attentional Focus, (P.I.: Kyle R. Cave, Ph.D. & Matthew C. Davidson, Ph.D.), 2015 summer

Research Specialist & Lab Tech Coordinator, Study of Real-Time EEG Analyses according to Resampling Algorithm, National Research Foundation of Korea (P.I.: Joo-Seok Hyun, Ph.D.), 2013

MATLAB Experimental Programmer, Application tests of polygraph with the newest measuring, National Forensic Service of South Korea (P.I.: Myoug-Ho Hyun, Ph.D.), 2013

Graduate Research Assistant, Efficient 3-D Cues in Images and Movies Based on Cognitive Models, National Research Foundation of Korea (P.I.: Joo-Seok Hyun, Ph.D.), 2013

Research Assistant, National Research Fellowships, Korean Ministry of Education, 2012

Graduate Research Assistant, Individual Difference in Visual Working Memory, National Research Foundation of Korea (P.I.: Joo- Seok Hyun, Ph.D.), 2011

Graduate Research Assistant, Efficient 3-D Cues in Images and Movies Based on Cognitive Models, National Research Foundation of Korea (P.I.: Joo-Seok Hyun, Ph.D.), 2011

Undergraduate Research Assistant, Chung-Ang University Leadership Funding for Excellent Department (Psychology Department, Chung-Ang University), 2011

ORAL PRESENTATIONS

Chang, J., & Hyun, J. -S. (2013). The effect of prediction-based target template on search performance. Oral presentation at the annual meeting of Korean Psychological Association, Daejeon, South Korea.

Chang, J., & Hyun, J. -S. (2013). Characterizing the process of representing a target template in visual search. Oral presentation at the annual meeting of the

Korean Cognitive and Biological Psychology Association, Seoul, South Korea.

Chang, J., & Hyun, J. -S. (2011). The efficiency of visual working memory process for sequentially presented memory items. Oral presentation at the annual spring conference of Korean Society for Cognitive Science (KSCS), Seoul, South Korea.

POSTER PRESENTATIONS

Chang, J., Stone, L., & Cave, K. R. (2019). Experience with Difficult Dual-Color Search Can Promote a Shift to a Single Range Target Representation. Poster presented at the annual meeting of Psychonomic Society, Montreal, Canada.

Chang, J., & Cave, K. R., Menneer, T., Kaplan, E., & Donnelly, N. (2016). How target/distractor discriminability affects search guidance strategy. Poster presented at the annual meeting of Psychonomic Society, Boston, MA.

Chang, J., & Hyun, J. -S. (2014) Impetuous search is postponed for the purpose of efficient conjunction search with coherent target template. Poster presented at the annual meeting of the Vision Science Society (VSS), Tampa, FL.

Chang, J., & Hyun, J. -S. (2013). How long does it take to create a solid target template in visual search? Poster presented at the annual meeting of the Vision Science Society (VSS), Naples, FL.

Chang, J., & Hyun, J. -S. (2012). The temporal characteristic of a target template formation in visual search. Poster presented at the Doshisha and Chung-Ang University Joint Symposium of Psychological Science, Kyoto, Japan.

Kim, D. G., **Chang, J**., & Hyun, J. -S. (2012). Temporal and featural separation of memory items play little role for VSTM-based change detection. Poster presented at the annual meeting of the Asia-Pacific Conference on Vision (APCV), Incheon, South Korea.

Chang, J., & Hyun, J. -S. (2012). Presenting and testing sets of memory items simultaneously or sequentially do not affect change detection performances. Poster presented at the annual meeting of the Vision Science Society (VSS), Naples, FL.

Chang, J., & Hyun, J. -S (2011). The effect of sequential and simultaneous presentation of memory items on the efficiency of visual working memory process. Poster presented at the annual meeting of the Korean Psychological Association, Jeonju, South Korea.

TEACHING EXPERIENCE

Teaching Assistant, Psychology 240, Statistics in Psychology, University of Massachusetts Amherst, 2019 Fall

Teaching Assistant, Psychology 240, Statistics in Psychology, University of Massachusetts Amherst, 2019 Spring

Independent lecturer, Psychology 240, Statistics in Psychology, University of Massachusetts Amherst, 2018 Summer

Teaching Assistant, Psychology 240, Statistics in Psychology, University of Massachusetts Amherst, 2018 Fall

Teaching Assistant, Psychology 240, Statistics in Psychology, University of Massachusetts Amherst, 2018 Spring

Teaching Assistant, Psychology 315, Cognitive Psychology, University of Massachusetts Amherst, 2017 Fall
Teaching Assistant, Psychology 100, Introduction to Psychology, University of Massachusetts Amherst, 2017 Spring
Teaching Assistant, Psychology 240, Statistics, University of Massachusetts Amherst, 2015 Spring – 2016 Fall
Teaching Assistant, Psychology 241, Research Methods, University of Massachusetts Amherst, 2014 Fall