

## Luyan Ji 季琿妍

6/F, Jockey Club Tower, Centennial Campus, Hong Kong  
Department of Psychology, Faculty of Social Sciences  
The University of Hong Kong

E-mail: luyanji@hku.hk  
Tel: +852 6582 0271  
+86 15896267421

### EDUCATION

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Ph.D., Cog. Psy.	Ghent University	2018
	Supervisor: Prof. Gilles Pourtois	
	Dissertation: "Multiple Facial Expressions Processing"	
M.S., Cog. Psy.	Institute of Psychology, Chinese Academy of Sciences (CAS)	2014
	Supervisor: Prof. Wenfeng Chen	
B.S., Psychology	Beijing Forestry University	2011

### RESEARCH INTERESTS

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- Face perception (facial expressions, identity, race, etc.)
- Perceptual integration (ensemble representation) for multiple objects
- Modulations of attention in perceiving and memorizing emotional gist
- Individual differences and perceptual development

### RESEARCH EXPERIENCE

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*Postdoctoral Fellow* 2018-present

#### Metacognition of Face Perception

- Used confidence rating and measured confidence-accuracy relations for face recognition
- Compared metacognition for individual face and average face perception

#### Individual Differences in Multiple Face Processing

- Examined whether single face recognition ability would modulate multiple face processing
- Explored eye-movement patterns when processing multiple faces

#### Holistic Face Processing

- Investigated the spatial extent holistic processing captures
- Developed a common methodology for the composite and part-whole task

#### Face Age Estimate

- Explored the effect of emotion on face age estimate
- Examined the ability of estimating the average age of faces

### *Graduate Student Researcher*

2011-2018

#### Ensemble Representation for Multiple Facial Expressions

- Investigated the attentional boundaries using various behavioral paradigms
- Explored the underlying neural mechanism using ERPs
- Conducted multilevel modeling, mixture modeling and simulations with R and Python
- Demonstrated the capacity limitations of multiple face processing

- Found the amplifying effect in mean emotion perception

#### Effects of Learning Single vs. Multiple Facial Expressions in Face Recognition

- Explored whether exposure to multiple facial expressions improve identity recognition
- Compared learning multiple hetero vs. multiple homo in random vs. successive order

#### Research Assistant

Face Perception Project (PI: Prof. Wenfeng Chen, Institute of Psychology) 2011-2014

- Participated in writing review on the interaction of facial attractiveness and attention
- Contributed to writing funding proposal on facial expression processing in the aging brain

Action Memory of Children (PhD student Lamei Wang, Institute of Psychology) 2010

- Collected data of action imitation and recognition among Chinese preschoolers

Autism Intervention Program (PI: Prof. Xiuya Lei, Beijing Forestry University) 2009

- Actively interacted with autistic children and implemented the intervention plan
- Interviewed autistic children's parents on their idea of intervention and well-being

#### PUBLICATIONS

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##### Journal Articles

Zhong, N., **Ji, L.**, & Hayward, W. (in preparation). When the initial fixation point is not the preferred one: A simultaneous EEG and eye tracking study

**Ji, L.**, Jin, H., & Hayward, W. (in preparation). Holistic processing of face perception: integrating composite task and part-whole task.

**Ji, L.**, Chan, L., Tian, Y., & Hayward, W. (in preparation). Average age perception and the modulations of facial expressions.

**Ji, L.**, & Hayward, W. (under review). Metacognition of average face perception.

**Ji, L.**, Pourtois, G., & Sweeny, T. (2020). Averaging multiple facial expressions through subsampling. *Visual Cognition*, 28(1), 41-58.

**Ji, L.**, & Pourtois, G. (2018). Capacity limitations to extract the mean emotion from multiple facial expressions depend on emotion variance. *Vision Research*, 145, 39-48.

**Ji, L.**, Chen W., Loeys, T., & Pourtois, G. (2018). Ensemble representation for multiple facial expressions: Evidence for a capacity limited perceptual process. *Journal of Vision*. 18(3):17, 1-19.

**Ji, L.**, Rossi, V., Pourtois, G. (2018). Mean emotion from multiple facial expressions can be extracted with limited attention: Evidence from visual ERPs. *Neuropsychologia*. 111C, 92-102.

Shang, J., Chen, W., **Ji, L.** (2017). The role of facial attractiveness in cognitive process and its neural mechanism. *Advances in Psychological Science (in Chinese)*, 26(2), 241-253.

Li, H., **Ji, L.**, Tong, K., Ren, N., Chen, W., Liu, C. H., & Fu, X. (2016). Processing of individual items during ensemble coding of facial expressions. *Frontiers in Psychology*, 7.

Tong, K., **Ji, L.**, Chen, W., & Fu, X. (2015). Unstable mean context causes sensitivity loss and biased estimation of variability. *Journal of Vision*, 15(4), 15-15.

Chen, W., Tang, W., **Ji, L.**, Tong, K., Xuan, Y., & Fu, X. (2014). Automatic and controlled

processing of facial expressions in the aging brain. *Advances in Psychological Science (in Chinese)*, 22(9), 1372-1382.

#### Conference Proceedings

**Ji, L.**, Chen, W., & Fu, X. (2014). Different roles of foveal and extrafoveal vision in ensemble representation for facial expressions. *In International conference on engineering psychology and cognitive ergonomics* (pp. 164-173). Springer, Cham.

Yang, C., **Ji, L.**, Chen, W., Fu, X. (2014). Positive affective learning improves recognition memory. *In International conference on engineering psychology and cognitive ergonomics* (pp. 293-300). Springer, Cham.

#### CONFERENCE REPRESENTATIONS

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**Ji, L.**, Hayward, W. (2019). Metacognition of face identification: Perspective from multiple face processing. *Poster at the European conference on visual perception (ECVP)*, Leuven, Belgium.

**Ji, L.**, Pourtois, G. (2018). Capacity limitations to extract the mean emotion from multiple facial expressions depend on emotion variance. *Poster at the 18<sup>th</sup> annual meeting of the Vision Science Society (VSS)*, St Pete Beach, Florida, USA.

**Ji, L.**, Pourtois, G. (2017). Averaging emotion from multiple facial expressions: Effects of overt vs. covert attention on behavior and lateralized evoked potential. *Poster at the 57<sup>th</sup> annual meeting of the Society for Psychophysiological Research (SPR)*, Vienna, Austria.

**Ji, L.**, Pourtois, G. (2017). Ensemble representation for multiple facial expressions: Evidence for a capacity limited but asymmetrical perceptual process between positive and negative facial expressions. *Poster at the 17<sup>th</sup> annual meeting of the Vision Science Society (VSS)*, St Pete Beach, Florida, USA.

**Ji, L.**, Pourtois, G. (2015). Limited processing capacity for extracting mean emotion from multiple facial expressions. *Poster at the European conference on visual perception (ECVP)*, Liverpool, UK.

**Ji, L.**, Chen, W., Fu, X. (2014). Different roles of foveal and extrafoveal vision in ensemble representation for facial expressions. *Talk at the 16<sup>th</sup> International Conference on Human-Computer Interaction*, Heraklion, Crete, Greece.

**Ji, L.**, Chen, W., Fu, X. (2013). Was “seeing the mean emotion” indeed a high level analysis? *Poster at the 13<sup>th</sup> annual meeting of the Vision Science Society (VSS)*, Naples, Florida, USA.

Tang, W., **Ji, L.**, Tong, K., Chen, W. (2013). How do we extract the average emotion: the role of perception and emotion? *Talk at the 16<sup>th</sup> national academic congress of psychology*, Nanjing, China.

#### RESEARCH GRANTS

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Special Research Fund for CSC Student, Ghent University

2016-2018

- “Ensemble representation for multiple facial expressions”

- Supervisor: Prof. Gilles Pourtois; Total: €7440
- Open Project Program, Institute of Computing Technology, CAS 2012
- “Multiple facial expressions processing”
  - Supervisor: Prof. Wenfeng Chen; Total: ¥1000
- Grant for Excellent Undergraduate Student, Institute of Psychology, CAS 2010-2011
- “The influence of natural and urban environment on working memory”
  - Supervisor: Prof. Fei Zi, Beijing Forestry University; Total: ¥1000

## AD-HOC REVIEWER

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Journal of Experimental Psychology: Human Perception and Performance  
 Neuroscience & Biobehavioral Reviews  
 Brain and Cognition  
 Scientific Reports  
 Attention, Perception, & Psychophysics  
 Frontiers in Psychology

## REFERENCES

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William Hayward, Ph.D  
 Professor  
 Department of Psychology, The University of Hong Kong  
 Pok Fu Lam Road, Hong Kong, China  
 whayward@hku.hk

Gilles Pourtois, Ph.D  
 Associate Professor  
 Department of Experimental-Clinical and Health Psychology, Ghent University  
 Henri Dunantlaan 2, Gent 9000, Belgium  
 gilles.pourtois@ugent.be

Wenfeng Chen, Ph.D  
 Associate Professor  
 Department of Psychology,  
 Renmin University of China  
 59 Zhongguancun St., Beijing 100872, China  
 wchen@ruc.edu.cn