

# Hörmertjan Yiltiz

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## Education Background

Department of Psychology, Peking University

BEIJING

*B.S. in Psychology*

2010–2014

Key Courses: Experimental Psychology (A-), Physiology (A), Social Cognition (A-), Engineering Psychology (A-), Organizational Psychology (A-), Neuropsychology (A-), Psychological research method-using Matlab (A).

## Areas of Research Interest

Affective computing, decision-making, computational modeling, crossmodal perception, ACT-R, AI.

## Academic Experience

### Researches.....

Center for Brain and Cognitive Sciences, Peking University

BEIJING

Supervisor: Prof. Lihan Chen, clh20000@gmail.com

2014–Present

- 2014 — Present: Yiltiz, H. & Chen, L. (2014). Tactile input and empathy ability modulate the perception of ambiguous biological motion. *Frontiers in Psychology*. (Abstract accepted).
  - Investigated direction perception of biological motion with face stimuli as background;
  - Found that the overall direction perception of walkers showed a facing away effect;
  - Subjects with higher social anxiety demonstrated a stronger facing bias.
- 2013 – 2014: **Tactile Input Resolves Complex Biological Motion Visual Perception.** Undergraduate thesis (received A+).
  - Simulated the tactile feedback of point light walker's visual footfall;
  - 3D depth perception via stereoscope;
  - Tactile stimuli influenced observers with high empathy concern level.
- 2012 – 2013: **Meaningful Biological Motion Perception Affected by Tactile Cue.** Independent supervised study. Funded by *Beijing Innovation Projects*.
  - Direction perception and integration task for upward and inverted walkers;
  - Tactile input modulated upward walkers' direction perception with greater significance.

Key Laboratory of Noise and Vibration Research, Chinese Academy of Sciences

BEIJING

Lab Assistant, supervisor: Prof. Ming Bao, baoming@mail.ioa.ac.cn

2012–2013

Set up a new Auditory Localization Lab, mainly responsible for lab space design, test parameters and technical assistance.

Motor Control Lab, Department of Psychology

BEIJING

Research Assistant, supervisor: Prof. Kunlin Wei, wei.kunlin@gmail.com

2011–2013

Implemented virtual reality experiment program for automatic hardware-aided targeting of flying objects.

### International Conferences.....

- Yiltiz, H. & Chen, L. (2013). Tactile inputs resolve the ambiguous perception of biological point light walkers. *Vision Science Society*, USA, Naples, Florida. doi: 10.1167/13.9.190
- Yiltiz, H. & Chen, L. (2013). Tactile temporal groupings bias perception of ambiguous point light walkers. *The 9th Asia-Pacific Conference on Vision*. China, Jiangsu, Suzhou. doi: 10.1002/pchj.32

## Internships & Social Activities

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<b>Xinjiang Education Institute</b> <i>Developmental Psychology Instructor</i> Delivered 40 class lectures on Preschool Child Psychology, organized five class activities and a final examination.	<b>URUMQI, XINJIANG</b> <i>July – Sept, 2014</i>
<b>The 23th World Philosophy Congress (23th WCP)</b> <i>The Secretary-General, Delegation of Peking University for 23th WCP</i> Responsible for official business, paper submission, publicity and socializing with related participants.	<b>ATHENS, GREECE</b> <i>Aug, 2013</i>
<b>International Congress for Traditional Chinese Medicine</b> <i>Independent simultaneous interpretation from English to Chinese for the whole congress.</i>	<b>XINMI, HENAN</b> <i>Oct, 2012</i>
<b>Beijing Huilongguan (Psychiatric) Hospital</b> <i>Mental Health Evaluator, supervised by Prof. Mingyi Qian, qmy@pku.edu.cn</i>	<b>BEIJING</b> <i>May, 2013</i>
<b>Weixiuyuan Kindergarten &amp; Pei-Chi School for Mentally Retarded Children</b> <i>Psychological Development Consultant, supervised by Prof. Yanjie Su, yjsu@pku.edu.cn</i>	<b>BEIJING</b> <i>Nov, 2012</i>
<b>Western Cultural Exchange Association, Peking University</b> <i>Leader of the Financing Division</i> Sought funding from relevant companies and provided lecture opportunities for financial support.	<b>ATHENS, GREECE</b> <i>2012 – 2014</i>
<b>Arts of Declamation Association, Peking University</b> <i>Leader of the International Division</i> Recruited international students and cooperated with other students' association.	<b>BEIJING</b> <i>2010 – 2012</i>

## Honors & Awards

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2011: Awards for Outstanding Class Leader.

2012 – 2014, each year: Awards for Outstanding Campus Social Activities.

2010 – 2014, each year: National Grants for College.

2013: Best Translator of The Year by *National Literature* for translating **The Old Man and the Sea** to Uyghur.

## Languages & Standardized Tests

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<b>Uyghur:</b> First language	<i>Native, orally fluent, academic competent</i>
<b>Mandarin:</b> Second language	<i>Native, orally fluent, academic competent</i>
<b>English:</b> Foreign language	<i>orally fluent, academic competent</i>
○ TOEFL – 109 (Reading 29, Listening 30, Speaking 23, Writing 27) in Oct. 26, 2014	
○ GRE – 325 (Verbal 158, 78%; Quantitative 164, 90%; Analytically Writing 3.0, 15%) in Oct. 12, 2014	
<b>Arabic:</b> Foreign language	<i>Basic words, phrases and daily communication</i>

## Computer Skills

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**Numerical:** Proficient at MATLAB® & PYTHON for experimental design, visualization, data cleansing & analysis, pattern recognition, probabilistic models, digital analog I/O; also at R & SPSS for statistics.

**OS:** Proficient at LINUX & WINDOWS for OS administration, networking and database management (MySQL).

**Misc:** Familiar with L<sup>A</sup>T<sub>E</sub>X, ENDNOTE for academic writing, and LISP for optimization & pattern recognition.

**Projects**.....

**Point Light Walkers:** An open source MATLAB® toolbox for biological motion research providing:

- various straightforward psychophysics experimental design;
- 4 dimensional data transformation representing biological motion animation in 3D space;
- visual, auditory and tactile simulation with high precision response capturing;
- semi-automated data cleansing and data analysis (ANOVA, MAVONA, rANOVA and more);

- easy producing various academic plots for publishing or presentation.
- available at <https://github.com/hyiltiz/PLW>

**QuiCK Customizable K(q)uestionnaire:** An open source MATLAB<sup>®</sup> toolbox for social survey providing:

- several ready-to-use basic structures as templates;
- support for multiple choice questions with several and/or several answers with reaction time capturing;
- seamless integration with psychophysics experiments using Psychtoolbox library;
- customizable instructions for each items or each sub-scales separately;
- automatic encoding to generate the result for each sub-scales.
- available at <https://github.com/hyiltiz/QuiCK>