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## Linguistic birds : exploring cognitive abilities in zebra finches by using artificial grammars

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# Curriculum Vitae

Born on 23rd March 1984 in Guangdong, China.

Graduated from high school (Chenghai High School, China) in 2003.

2003-2007: **BSc**, Faculty of Agriculture, Hainan University, Hainan, China, specializing in Biotechnology. Research project: Molecular cloning and analysis of mt16SrRNA in coconut leaf beetle (*Brontispa longissima*). Supervised by Prof. dr. Jun-sheng Huang (Chinese Academy of Tropical Agricultural Science).

2007-2010: **MSc**, Faculty of Life Science, Lanzhou University, Gansu, China, specializing in Animal Ecology. Research project: Life history evolution of black redstart in the northeastern Tibetan Plateau. Supervised by Prof. Naifa Liu (Lanzhou University).

2010-2014: **PhD** research project, Behavioral Biology group, Institute of Biology Leiden (IBL) Leiden University, Leiden, the Netherlands. Project title: Linguistic Birds – exploring the cognitive abilities in zebra finches by using artificial grammars. Supervised by Prof. dr. Carel J. ten Cate (Leiden University).

During this project, I supervised several BSc and MSc students and presented my work at national and international conferences (NVG: annual meeting of Netherlands Society for Behavioral Biology, IEC: International Ethological Conference, EVOLANG: Evolution of Language International Conference).

# Publications

## Scientific publications

Chen, J. N., Liu, N. F., Yan, C., & An, B. (2011). Plasticity in nest site selection of Black Redstart (*Phoenicurus ochruros*): a response to human disturbance. *Journal of Ornithology*, 152(3), 603-608.

Chen, J., van Rossum, D., & ten Cate, C. (2014). Artificial grammar learning in zebra finches and human adults: XYX versus XXY. *Animal Cognition* (online, DOI: 10.1007/s10071-014-0786-4).

Chen, J., & ten Cate, C. (in press). Zebra finches can use positional and transitional cues to distinguish vocal element strings. *Behavioural Processes*

van Heijningen, C. A., Chen, J., van Laatum, I., van der Hulst, B., & ten Cate, C. (2013). Rule learning by zebra finches in an artificial grammar learning task: which rule? *Animal cognition*, 16(2), 165-175.

## Manuscripts for publication

Chen, J., Jansen, N., & ten Cate, C. (under review). Zebra finch are able to learn prefixation and suffixation patterns.

Chen, J. & ten Cate, C. (in preparation). Bridging the gap: learning of non-adjacent dependencies in a songbird.