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## BACKGROUND

My name is Jing Zhou, I come from China. I am in my first year of my Ph.D in IPN under the supervision of Dr. Nathan Spreng. My previous studies were all completed in China, I am very excited and looking forward to entering McGill University to study for my doctorate as an international student. My supervisor and my colleagues are much better than I expected, which made me adapt to the current study quickly.

I am an outgoing girl who likes to communicate with others. I love traveling with my friends, we couldn't walk normally for one week after climbing a mountain; I have had the experience of swimming with a group of schoolchildren, they all came to teach me; I don't like cooking because I can never learn.

## CAREER PATH

I expect that through training and communicating with a large number of researchers across disciplines, sectors, and institutions. I can not only learn fundamental topics such as research and professional skill building, grant writing, and communications. Most importantly, new ideas about longitudinal studies aging and cognition (such as prospective memory) are stimulated and so that to determine future research directions.

I hope to make a big breakthrough in the field of aging and cognition (including exploring the relationship between brain network and neurocognitive aging, and prospective Memory). My goal is to enter a good university and set up my own laboratory, then lead the team to continue research on aging, brain network and cognitive neuroscience.

## CURRENT RESEARCH

Currently, my interest is mainly concerned with dynamic brain network changes in healthy aging and dementia. Specially, Measuring the Iron in the brain of old adults at risk for dementia using quantitative susceptibility mapping (QSM), a novel technique which has the potential to measure iron levels in vivo by reconstructing magnetic susceptibility sources from field perturbations. And then relating those measures of Iron with cognition, resting-state connectivity and cortical thickness, as well as sit CSF biomarker (amyloid- $\beta$ , tau) to investigate the brain network changes in healthy elderly people at risk for dementia.

I am also interested in prospective memory and working memory, current opinion remains highly controversial as to whether there is an age-related decline in prospective memory, I look forward to doing some research in the future combining prospective memory and aging and fMRI.

