

2016SATU Joint Research Scheme ProgramHost Application Form

Date: 2016 / 04 / 11 (year/month/day)

1. Host University

Indian Institute of Technology Bombay, India

2. Host Unit

Psychophysiology Laboratory, Department of Humanities and Social Sciences

3. Joint Research Project Title

Behavioural, neural and cognitive studies of visual, speech and phonological processing in developmental dy

4. Principal Investigator

| | | | |
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5. Co-PI from the same unit – If any: None

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| Nationality | | Gender | <input type="checkbox"/> M <input type="checkbox"/> F |
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SATU Presidents' Forum

of Southeast and South Asia and Taiwan Universities
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Project Description

Developmental dyslexia, a difficulty in learning to read and write fluently, causes severe handicap in many children affecting their school achievement and future career choices, leading too often to a dropout track and academic underachievement. Problems in processing phonological information, ability to extract and manipulate speech sounds, are widely accepted as one of the major factors causing dyslexia. However, recent literature shows that visual processing deficit could be the strong contender of the causal factor in developmental dyslexia. However, despite the increasing amount of research on dyslexia during the past decades, the underlying reasons for deficient visual and phonological skills and how these could be related to dyslexia, remain unclear. **The present proposal aims to investigate neurocognitive basis for visual and phonological deficits in developmental dyslexia.** The specific focus is on the associations and causal interactions of basic auditory processing, visual, speech perception, phonological processes, and audio-visual processing with grapheme-phoneme decoding, i.e. mechanical reading and spelling skills.

The next major goal of present project is to see converging evidence of behavioral, and cognitive precursors and neural correlates of dyslexia. Though there are specific findings of cognitive, behavioral and Event Related Potential (ERP) studies, but there are few studies showing converging evidence of dyslexia. Therefore, current project also aims at combining cognitive, behavioral and ERP data to clarify nature and precursor of dyslexia.

6. Project Details

7. Acknowledgement (Signed by the President or SATU representative to show recognition)

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|--------------|---|----------------------|--------------|
| Name | RAJIV DUSANE | | |
| title | प्राध्यापक राजीव दुसाने Prof. Rajiv Dusane संकायाध्यक्ष (अंतर्राष्ट्रीय संबंध) Dean (International Relations) भारतीय प्रौद्योगिकी संस्थान मुंबई Indian Institute of Technology Bombay पवई, मुंबई-४०००७६/Powai, Mumbai-400७76. | Rajiv Dusane | (signature) |
| | | Date: 2016 / 04 / 12 | (yyyy/mm/dd) |

Please email satu@email.ncku.edu.tw before 2016.4. 29(Fri.) for application with the subject line: <2016 SATU JRS host application –School Name>. Thank you.