



THE UNIVERSITY OF
SYDNEY

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To Selection Committee,

It is my great pleasure to recommend Mr. Vi Viet Hoang (Henry) Ngo for admission to the Master of Science in Computer Science at Vin University. As Henry's Honours thesis supervisor in the School of Computer Science, University of Sydney, I had the opportunity to closely observe his development as a young researcher and was consistently impressed by his intellectual maturity, technical depth, and originality.

Henry's Honours thesis, Detection and Identification of Context Switch Events through Privacy-Preserving Historical Behavioural PC Users Data, investigated how behavioural signals can be used to detect context switches in computer use and identify destination applications. He designed and evaluated several machine learning models, including clustering methods (MCC, PCC), sequence models (LSTM), and Hidden Markov Models, demonstrating that sequential approaches achieved superior performance. His analysis also revealed key behavioural predictors such as typing intensity, mouse dynamics, and system resource usage.

What stands out is Henry's ability to work independently and rigorously. He reduced a large, complex dataset into interpretable features, designed robust labelling heuristics, and built a cascaded pipeline that integrates detection with application identification. The clarity of his methodology, his systematic evaluation of models, and the depth of his analysis across users and noise conditions reflect the qualities of a capable and dedicated postgraduate researcher.

Henry has consistently demonstrated the qualities expected of a strong postgraduate candidate: intellectual independence, technical competence, and a genuine interest in advancing research. I am confident that he has the ability and motivation to excel in the Master of Science program at VinUniversity and to contribute meaningfully to your academic community.

Should you require any further information, please feel free to contact me.

Sincerely,

Dr. John Stavrakakis
University of Sydney