

# UNIVERSITY OF SOUTH FLORIDA

## *Major Research Area Paper Presentation*

### *Survival Time Prediction from Unannotated Lung Cancer Histopathology Images*

by  
*Nikolai Fetisov*

*For the Ph.D. degree in Computer Science and Engineering*

*Lung cancer is the leading cause of cancer-related deaths responsible for over 130,000 deaths each year in the US. Early diagnosis and prompt treatment are crucial for prolonging survival. Most research is focused on ranking patients according to their expected survival time.*

*Our research focuses on predicting short-term and long-term survival from lung cancer histopathology images without ROI annotations. We have obtained an 0.81 AUC when predicting whether a patient would fall into the short-term survival group (less than 12 months) or long-term survival group (greater than 60 months). Furthermore, we show that our model is capable of classifying patients into long- and short-term survival even when their survival time falls outside of our chosen ranges.*

*Friday, February 11, 2022*

*1:00 PM EST*

*In-person: ENB 313, Online: [MS Teams](#)*

**THE PUBLIC IS INVITED**

*Examining Committee*

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*Associate Chair for Graduate Affairs*

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*Sudeep Sarkar, Ph.D.*

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