

# Senior Thesis Topic Proposal Draft

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I will be working with Professor Imanaliev on the following research project (cited from the research proposal).

<b>Topic</b>	Application of novel mathematical and computerized methods for ECG (Electrocardiogram) analysis
<b>Researcher</b>	Professor Taalaibek Imanaliev
<b>Assistants</b>	Ilya Solomonov Moritz Konarski
<b>Main Objective</b>	work out simple, accurate, automatized electrocardiographic analysis tool for the assessment of prognosis in various forms of ischemic heart disease

The plan is to develop software that analyzes a 12-lead ECG for 10 cardiac cycles. The goal is to see if automated computer ECG analysis can provide a benefit for the diagnosis and treatment of ischemic heart disease (<https://www.heart.org/en/health-topics/heart-attack/about-heart-attacks/silent-ischemia-and-ischemic-heart-disease>).

## References

1. Research Proposal Draft, Imanaliev T.