# Research Proposal Template

Name: XXX  
Supervisor: XXX  
Date of this Document: XXX

# Introduction

* Context: Give a brief overview of the problem area!
* State of the Art and related work: Briefly discuss the approaches and results that have already been presented in this or related areas (at least the 5 most important papers)!

# Goal of the Project/Thesis

## Problem Statement

* What is the problem that your project/thesis addresses?
  + The problem should logically follow from the description of the state of the art. Clearly describe the need for research.
  + What is unknown? What has been ignored or understudied? What could be improved? what are the limitations of current solutions (if solutions already exist)?
* Why is it a significant (interesting/important) problem?

## Research Objective(s)

* Which specific research question(s) will you try to answer?
  + How to define a good question: [Here](https://www.youtube.com/watch?v=89NonP_iZZo) and [here](https://goo.gl/9QgYxl)
* **OR:** Which particular problem(s) will you try to solve?
  + Which sub‑problems do you derive and address in your project/thesis?
  + Read [here](http://www.imbb.forth.gr/people/aeconomou/pdf/HowToChooseGoodProblem.pdf)
  + To see an example read Chapter 1 of this [thesis](https://www.gipp.com/wp-content/papercite-data/pdf/thesisbelagipp.pdf).
* **OR:** Which hypotheses will you investigate?

## Expected Results

* Which specific results shall the project achieve? Clearly describe your expected contribution:
  + What will be known afterwards that is not known now? / What will be created that does not exist now? Whom will this benefit? why is it important?

# Methodology

* Which specific tasks will you perform to achieve the objectives and expected results?
* What methods will you apply to accomplish each task, e.g., literature research, empirical study, prototype implementation, quantitative or qualitative evaluation etc.?
* How will you evaluate the fulfillment of you research objective(s)? How will you show that you answered the question, measure how well you solved the problem, or proof that the hypothesis held? For an example read Chapter 6 of this [thesis](https://www.gipp.com/wp-content/papercite-data/pdf/thesisbelagipp.pdf) and Chapter 8 of this [book](http://nlp.stanford.edu/IR-book/pdf/irbookonlinereading.pdf).
* Which tools, datasets etc. do you plan to use?

## Work Plan

* Define work packages (including milestones)!
* Make a rough time plan!

# References

* List relevant sources (state of the art and related work).
* Search for related academic research/ projects using [Google Scholar](https://scholar.google.de/) and [Semantic Scholar](https://www.semanticscholar.org/).