

# TTIC 31190: Natural Language Processing Project Proposal

Kevin Gimpel

**Due: 11:59 pm, Feb. 16, 2016**

**Submission:** email to `kgimpel@ttic.edu`

## Submission Instructions

Email your project proposal to `kgimpel@ttic.edu` by 11:59 pm on Feb. 16, 2016.

## 1 Project Proposal Sections

Below are suggestions of sections that you may want to include in your project proposal, along with a brief description of each section. The proposal should not exceed 2 pages.

When deciding on the scope of the project, plan for it to be about 1.5 to 2 times the size of a single assignment. That is, if you spend 20 hours on each assignment, then expect to spend about 30-40 hours on the project.

When writing the proposal, think of it as an internal document (that you would circulate with co-workers or your advisor) rather than a research report written for public dissemination. For your final project report, you'll want to include more high-level introductory and motivational material, as well as a deeper description of the related work and other systems/results on your task. The proposal, however, should focus on low-level procedural details and include the concrete steps you plan to follow to complete the project.

### 1.1 Group

If you are working in a group of 2, include the names of the members of your group.

### 1.2 Problem/Task

Describe the problem or task that you are planning to work on. This could be a standard NLP task that we have discussed, an NLP task that we have not discussed, or a new task that you are creating.

### 1.3 Datasets and Evaluation

Describe what datasets you will use and how you will evaluate the task. If you're using a standard dataset and metric, this section will be short. If you will be developing a new dataset, then describe how you will do so.

| architecture | loss  | accuracy (%) |
|--------------|-------|--------------|
| RNN          | log   |              |
| RNN          | hinge |              |
| LSTM         | log   |              |
| LSTM         | hinge |              |

Table 1: My amazing results.

## 1.4 Methods

Describe the methods you will use or develop to solve the problem described above. Also describe any toolkits you will use for this.

## 1.5 Key Experiments

Discuss the key experimental results you will obtain in the project. One way to do this is to create a table with rows for different models or system configurations, and columns for settings and evaluation metrics, and then leave all the result cells empty. Then the key experiments in the project correspond to filling in cells in that table. An example is shown in Table 1.

## 1.6 Related Work

Include a brief discussion of the most relevant related work. To find related work, try Google, Google Scholar, and [www.aclweb.org](http://www.aclweb.org). If you are having trouble finding related work, email us.

## 1.7 Timeline/Work Plan

Provide a rough estimate of when each component of the project will be completed. This helps you to estimate how long each component will take and also forces you to think about all the steps that need to be done.