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CS224n: Natural Language Processing with Deep Learning

([index.html](#))

Course Project Reports for 2018

There were two options for the course project. Students either chose their own topic ("Custom Project"), or took part in a competition to build Question Answering models for the SQuAD (<https://rajpurkar.github.io/SQuAD-explorer/>) challenge ("Default Project"). You can see the in-class SQuAD challenge leaderboard here (<http://cs224n-win18-leaderboard.westus.cloudapp.azure.com/test>).

The previous year's reports from CS224n 2017 are available here (archive/WWW_1617/reports.html).

Prize Winners

Congratulations to our prize winners for having exceptional class projects!

Prizes Round 1 (based on the poster session)

Custom Projects

1. Attention, I'm Trying to Speak: Speech Synthesis ([reports/998.pdf](#)) by Akash Mahajan
2. Attention On Attention: Architectures for Visual Question Answering (VQA) ([reports/6856059.pdf](#)) by Jasdeep Singh and Vincent Ying
3. Word2Bits - Quantized Word Vectors ([reports/997.pdf](#)) by Maximilian Lam

Default Projects

1. Question Answering On SQuAD Dataset ([reports/6878267.pdf](#)) by Junjie Dong, Zihuan Diao, and Jiaying Geng
2. Adversarial SQuAD ([reports/6908723.pdf](#)) by Amita Kamath and Akhila Yerukola
3. Machine Comprehension Using Bidirectional Attention ([reports/6880078.pdf](#)) by Amirhossein Kiani, Behrooz Ghorbani

Audience Selection Prize

1. Exploring and Mitigating Gender Bias in GloVe Word Embeddings ([reports/6835575.pdf](#)) by Francesca Vera

Prizes Round 2 (based on the reports)

Custom Projects

1. Yup'ik Eskimo and Machine Translation of Low-Resource Polysynthetic Languages (reports/6907893.pdf) by Christopher Liu and Laura Domine
2. Pragmatic Training for Reference Games by Bill McDowell
3. Representing Words with Only Subword Information (reports/6881946.pdf) by Alexia Wenxin Xu

Default Projects

1. Iterative reasoning with bi-directional attention flow for machine comprehension (reports/6908250.pdf) by Anand Dhoot and Anchit Gupta
2. Diverse Ensembling for Question Answering (reports/6907011.pdf) by Ben Cohen-Wang and Edward Lee
3. Question Answering On SQuAD (reports/6880391.pdf) by Cagan Alkan and Beliz Gunel

Custom Projects

Project Name	Authors
Visual Question Answering (reports/6909280.pdf)	Stefanie Anna Baby, Ashwini Pokle
Pointer-Generator Network Summarization On TextRank-Preprocessed Documents (reports/6838118.pdf)	Long Viet Tran
Automatic Lyrics-Based Music Genre Classification (reports/6839297.pdf)	Zhao Kezhen, Ruoxi Zhang, Peiling Lu
Exploring neural architectures for NER (reports/6896582.pdf)	Vincent Billaut, marcthieb@stanford.edu
Neural Abstractive Summarization On Gigaword (reports/6838669.pdf)	Chenduo Huang, Matthew Donghyun Kim
Deep Learning Approaches to Classifying Types of Toxicity in Wikipedia Comments (reports/6838795.pdf)	Howard Small, Ashe Marie Magalhaes
Exploring Deep Learning in Combating Internet Toxicity (reports/6909170.pdf)	Sushan Bhattarai
Playlist Title Generation Using Sequence to Sequence (reports/6904815.pdf)	Sofia Samaniego De La Fuente
Detecting Depression Through Tweets (reports/6879557.pdf)	Aileen Wang, Diveesh Singh
Predicting Myers-Briggs Type Indicator With Text (reports/6839354.pdf)	Ian Knight

Dank Learning: Generating Memes Using Deep Neural Networks (reports/6909159.pdf)	Lawrence Peirson, Emine Meltem Tolunay
Language Modeling with Generative Adversarial Networks (reports/6906148.pdf)	Mehrad Moradshahi, Utkarsh Contractor
Toxic Comment Categorization using Bidirectional LSTMs with Attention (reports/6834909.pdf)	Anthony Ho, Michael Anthony Baumer
Movie Recommendation System Enhanced by Natural Language Processing (reports/6909194.pdf)	Jiaxi Chen, Ziran Zhang
Predicting Company Ratings through Glassdoor Reviews (reports/6880837.pdf)	Fabian Frederik Frank, Tyler Whittle
State-of-the-art abstractive summarization (reports/6878681.pdf)	Stelios Serghiou, Apurva Pancholi, Peter Li
Learning a New(s) Model: An exploration of LSTM classification and Language Modeling of News Articles (reports/6880237.pdf)	Luladay Price, Stephone Christian
When Glove meets GAN: Adversarial Language Generation Using Dense Vector Embeddings (reports/6908905.pdf)	Junkyo Suh, Edwin Yuan, Manish Pandey
Paying attention to toxic comments online (reports/6856482.pdf)	Emily Ellis Kuehler, Manav Kohli, John Palowitch
Cache Attention for Recurrent Language Modeling (reports/6834331.pdf)	Colin Gaffney
Training Dialog Agents to Negotiate (reports/6916528.pdf)	Kerem Goksel
Predicting the Side Effects of Drugs (reports/6838544.pdf)	Camilo Ruiz
Never Stop Learning (reports/6907848.pdf)	Lawrence Stratton
Stacked Attention for Visual Question Answering (reports/6909201.pdf)	Bingbin Liu, Weini Yu
Are you sure of your answer? Think again. (reports/6880213.pdf)	Lakshmi Manoharan, Arjun Parthipan
End-to-End Task-Oriented Dialogue Agents (reports/6908582.pdf)	Derek Chen
Neural Models for Email Response Prediction (reports/6880227.pdf)	Tucker James Leavitt

CS224N: Detecting and Classifying Toxic Comments (reports/6837517.pdf)	Kevin Dara Khieu, Neha Narwal
Conditional MaskGAN and evaluation via classification (reports/6909349.pdf)	Hanoz Bhathena, Renke Cai
Shakespeare and Satoshi - De-anonymizing Writing Using BiLSTMs with Attention (reports/6858026.pdf)	Varun Ramesh, Jean-Luc Watson
Deep Neural Networks for Added Emphasis (reports/6861359.pdf)	Jon Kotker, Niraj Jayant
Def2Vec: Learning Word Vectors from Definitions (reports/6909353.pdf)	Tony Duan, Andrey Kurenkov
Classy Classification: Classifying and Generating Expert Wine Review (reports/6909240.pdf)	Frederick William Lawrence Robson, Loren Karl Amdahl-Culleton
Colors in Context: An Implementation (reports/6909257.pdf)	Alec Joseph Brickner
Using General Adversarial Networks for Marketing: A Case Study of Airbnb (reports/6857623.pdf)	John Kamalu, Richard Diehl Martinez
IMAGAN: Learning Images from Captions (reports/6880081.pdf)	Samir Sen, Trevor Tsue, Karan Singhal
ERASeD: Exposing Racism And Sexism using Deep Learning (reports/6908288.pdf)	Jayadev Bhaskaran, Suvadip Paul
Generalizing word vectors in a multi model approach (reports/6870500.pdf)	Kareem Hegazy
Predicting Gender of Poets with Deep Learning Methods (reports/6846198.pdf)	Samuel Mignot
Toxic Comment detection with bi-directional LSTM (reports/6838601.pdf)	Xiaoyan Wu
Predicting and Generating Discussion Inspiring Comments (reports/6879446.pdf)	Yunhe Wang, Junwon Park
Solving Math Word Problems (reports/6866023.pdf)	Ryan Anthony Wong
Improving the Neural Dependency Parser (reports/6899271.pdf)	Chuanbo Pan, Jeffrey Barratt, Shane Barratt

Natural Language Guided Reinforcement Learning for Playing Snake in Arbitrary Dimensions (reports/6880085.pdf)	Alexander Seutin
Predicting Funny Yelp Reviews (reports/6838098.pdf)	Christina Ashley Pan, John Martin Poothokaran
Generating SQL queries from natural language (reports/6907018.pdf)	Ikshu Bhalla, Archit Gupta
Context is Everything: Finding Meaning Statistically in Semantic Spaces (reports/6838634.pdf)	Eric Zelikman
Unsupervised Domain Adaptation for Sentiment Classification using Pseudo-Labels (reports/6838502.pdf)	Ruishan Liu, Liyue Shen
Predicting Entailment through Neural Attention and Binary Parsing (reports/6869979.pdf)	Natalie Ng, Matthew Jay Katzman, Christina Montefalcon Ramsey
Dialogue Generation using Reinforcement Learning and Neural Language Models (reports/6851458.pdf)	Carson K Lam, Marcella Cindy Prasetio

Default Projects

Project Name	Authors
Step by Step approach to build a model for SQuAD (reports/6879600.pdf)	Anjan Dwaraknath
Answering Questions with CharCNN and Bi-directional Attention Flow (reports/6909065.pdf)	Connie Xiao, Cindy Ding Jiang
Question Answering System with Deep Learning (reports/6908933.pdf)	Jake Spracher, Takahiro Fushimi, Robert M Schoenhal
Character CNN and Self-Attention for SQuAD (reports/6878771.pdf)	Jianqing Yang
Recurrent Neural Networks with Attention for Question Answering (reports/6887262.pdf)	Ben Hannel
BiDAF-inspired Preferential Multi-perspective Matching for Question Answering Task (reports/6908232.pdf)	Yuxing Chen, Kexin Yu

Reading Comprehension with SQuAD Dataset (reports/6899276.pdf)	Wei Kang
Improved Question Answering On the SQuAD Dataset Using Attention Mechanisms (reports/6837546.pdf)	Kelly Shen
Attention Mechanism in Machine Comprehension (reports/6879058.pdf)	Yingnan Xiao
Conditioning LSTM Decoder and Bi-directional Attention Based Question Answering System (reports/6889787.pdf)	Heguang Liu
Attention-Based Neural Network For Question Answering (reports/6856268.pdf)	Zhengyang Tang, Songze Li
Evaluating Different Techniques On SQuAD (reports/6908776.pdf)	Xinyu Xu, Zhangyuan Wang
R-NET with BiDAF for Reading Comprehension (reports/6909330.pdf)	Jingwei Ji, Zibo Gong
Bidirectional attention flow for Question Answering (reports/6880358.pdf)	Ana-Maria Istrate
The Quest for High-Performance Question Answering Neural Net Models (reports/6837893.pdf)	Lauren Blake
A Comparison of RNN and Transformer-based Question Answering Systems (reports/6873230.pdf)	Adam Jensen, Diana Moncoquit
Ensemble Learning for Stanford Question Answering Challenge (reports/6894581.pdf)	Yuzhou Liu
R-NET based Neural Network for Machine Reading Comprehension (reports/6897645.pdf)	abhishek bharani, VenkataBalaji Kollu
Bi-Directional Attention & Self Attention for SQUAD (reports/6909173.pdf)	LI DENG, Zhiling Huang
Machine Reading Comprehension On the SQuAD Dataset Using R-NET (reports/6891204.pdf)	Jason Mian Luo, William Zeng
Improving SQuAD Baseline Using BiDAF Refinements and Experimenting with Semi-Supervised Learning (reports/6879950.pdf)	Allison Koenecke, Varun Vasudevan
SQuAD GOALS Guided Objective Advanced Learning System (reports/6906111.pdf)	Derek Phillips
Question Answering using BiDAF and DrQA (reports/6881208.pdf)	Fu Rui, Xuan Yang

Question Answering with Attentions Ensemble (reports/6908695.pdf)	Zihan Lin, Jason Zhu, Teng Zhang
Q&A on the SQuAD dataset (reports/6838402.pdf)	Matej Kosec, Liz Wen Yao
A Study of Attention in Deep Learning Models for Question Answering (reports/6908789.pdf)	William Locke
Question Answering On the SQuAD Dataset (reports/6866116.pdf)	Stephanie Vincci Tang, Ivan Suarez Robles
High Performance SQuAD and Transfer Learning (reports/6908151.pdf)	Alexandre Gauthier, Jeff Chen
Question Answering on SQuAD Dataset with BiDAF and Self-Attention (reports/6856772.pdf)	Junwei Yang
Improved Question Answering on the SQuAD Dataset Using Attention Mechanisms (reports/6837773.pdf)	Vincent Sheu
Reading Comprehension Neural Network with Attention and Post Attention Modeling. (reports/6878499.pdf)	Xu Zhao, Zhi Liu
CS224N Default Final Project Write-Up (reports/6878193.pdf)	Mark Holmstrom
Paying Attention to SQuAD: Exploring Bidirectional Attention Flow (reports/6909109.pdf)	Lucy Li, Heather Rae Blundell
Machine Comprehension on SQuAD BiDAF vs Coattention (reports/6904179.pdf)	Minh-An Quinn
Question Answering with Attention (reports/6906694.pdf)	Stephanie Dong, Ziyi Li
An Exploration of Question-Answering Modules (reports/6887856.pdf)	Margaret Gan Guo, Wen Torng
An Ensemble Model for SQuAD (reports/6883382.pdf)	Yuze He, Priyanka Dwivedi
The SQuAD Challenge - Machine Comprehension on the Stanford Question Answering Dataset (reports/6904975.pdf)	Rohit Prakash Apte
Question Answering using Bidirectional Attention Flow and Co-Attention (reports/6909131.pdf)	Apoorva Dornadula, Parth Shah
Question Answering (reports/6856452.pdf)	Omar Sow

Exploring Techniques for Neural Question Answering (reports/6908928.pdf)	Gabriel Bianconi, Mahesh Agrawal
Question answering using weighted-loss Bi-Directional Attention Flow on SQuAD Dataset (reports/6909140.pdf)	mengjie@stanford.edu
An Exploration of State of the Art Techniques for Question Answering Systems (reports/6837016.pdf)	James Payette
Reading Comprehension using Bi-Directional Attention Network (reports/6908966.pdf)	Pratik Kumar, Neel Mani Singh
Neural Question Answering (reports/6859184.pdf)	Aneesh Pappu, Rohun Saxena
Combining Bidirectional Attention Flow and Attention Pooling Pointer Networks for High Performance on the SQuAD Challenge (reports/6906708.pdf)	Kiko Ilagan, Anoop Manjunath
Reading Comprehension and Question Answering with Bidirectional Attention Flow (reports/6905975.pdf)	Andrew Huang, Michael Ko
Investigations in Question Answering Architectures (reports/6898475.pdf)	Patrick Cho, Sudarshan Seshadri
The Impact of Attention Mechanisms on Question Answering Performance (reports/6879936.pdf)	Joe M Paggi, Benjamin Parks
Machine Comprehension on SQuAD BiDAF vs Coattention (reports/6897658.pdf)	Ramin Ahmari
Towards an Integrated QA Model (reports/6859311.pdf)	Fangzhou Liu
Implementation of R-NET Machine Comprehension Model for Question Answering (reports/6882071.pdf)	Sabarish Sankaranarayanan
Question Answering on the SQuAD Dataset (reports/6904508.pdf)	Laëtitia Shao, Ben Zhou
Applying Bi-Directional Attention Flow to SQuAD (reports/6887464.pdf)	Jestin Ma, Jialin ding
A Bidirectional Attention-Based Approach to Machine Comprehension and Question Answering (reports/6908241.pdf)	Kevin Chen
Question Answering System with Question Type Modelling (reports/6904810.pdf)	Ksenia Ponomareva

Machine Comprehension on SQuAD using Bi-Directional Attention Flow (reports/6909293.pdf)	Daisy Ding
CS224N: Question-Answering Utilizing Bidirectional Attention Flow (reports/6873360.pdf)	Wesley Chan Olmsted, Trevor Danielson
R-Net with Multiplicative Attention (reports/6880867.pdf)	Roos Mahdavian, Pierce Barrett Freeman
Question Answering with Coattention Encoding and Answer Pointer Network (reports/6879368.pdf)	Yinghao Xu
CS224N Final Report (reports/6909235.pdf)	Allen Zhao, Dirk Hofland
Computational Reading Comprehension through Self-Attention and Convolution (reports/6838521.pdf)	Neil Movva, Samir Menon
Exploring Attention Mechanisms for Reading Comprehension (reports/6859730.pdf)	Noah Makow
Machine Comprehension Systems on SQuAD Dataset (reports/6896656.pdf)	Megha Jhunjhunwala, Shantanu Thakoor
Question Answering Using Bi-Directional Attention Flow with Position Encoder (reports/6882606.pdf)	Denis
C8224N Final SQuAD Improvements (reports/6907927.pdf)	Ryan Almodovar, VIVEK MISRA
SQuAD Challenge (reports/6906993.pdf)	Matthew Creme, Mackenzie James Pearson, Raphael Lenain
SQuAD With LSTM and BiDAF (reports/6880365.pdf)	Ethson Villegas, Danielle Siy
Combining Attention Approaches for the SQuAD Challenge (reports/6909166.pdf)	Luke James Blackshaw Asperger
Multi-layer GRU using character level information for SQUAD challenge (reports/6898977.pdf)	Jake Yoon
Machine Comprehension with BiDAF (reports/6838241.pdf)	Shim Young Lee
Lightweight Convolutional Approaches to Reading Comprehension for SQuAD (reports/6909307.pdf)	Ben Pechas, Tobin Bell

Question Answering System with Bidirectional Attention Flow (reports/6909331.pdf)	Hsu-kuang Chiu, Ting-Wei Su
Bidirectional Attention Flow with LSTM Networks for Question Answering (reports/6855080.pdf)	James Li
Bi-Directional Attention Flow and CO-Attention Models for Question Answering on the SQuA (reports/6879054.pdf)	Rafael Musa
Analyzing Modeling Layers for the SQuAD Challenge (reports/6854122.pdf)	Tim Anderson
CS224N SQuAD Challenge with Bidirectional Attention Flow and Context Features (reports/6880002.pdf)	David Lee-Heidenreich, Adrien Truong
A Bi-directional Attention Flow Model for the SQuAD Dataset (reports/6905758.pdf)	Cody Keola Kala, Horace Chu
Machine Comprehension with BiDAF and Answer Pointer (reports/6895380.pdf)	Zehui Wang, Xiaoxue Zang
Question Answering with Deep Learning (reports/6906561.pdf)	Jackie Yau, Hao Wu
Reading Comprehension on the SQuAD Dataset (reports/6878498.pdf)	David Xue, Bill Zhu (Legal Name: Zheqing Zhu)
Machine Comprehension on SQuAD using Bi-Directional Attention Flow (reports/6909233.pdf)	Ruohan Zhan
An Approach to Machine Reading Comprehension on SQuAD (reports/6895215.pdf)	Jiafu Wu, Alan Flores-Lopez
Question Answering With Deep Bidirectional Attention Flow and FusionNet (reports/6934370.pdf)	Silviana Ciurea-Illcus, Michal Kim Wegrzynski
SQUAD Challenge : A Hybrid Model for Question Answering (reports/6896685.pdf)	Onur Cezmi Mutlu, Hacer Umay Geyikci
Natural language Question Answering using Curriculum Learning (reports/6908479.pdf)	Abhijeet Sheno, Aarti Bagul
Exploring Attention in Question Answering Models (reports/6857497.pdf)	Anav Sood, Ethan Zi-Yu Shen
A Multi-Attention Reading Comprehension Model for SQuAD Dataset (reports/6891034.pdf)	Shuyang Shi, Tong Yang

Deep Question Answering on SQuAD (reports/6882087.pdf)	Mitchell Dawson
CS224N Final Project SQUAD Challenge (reports/6908911.pdf)	Saahil Agrawal, Nicholas Johnson
SQuAD Challenge using BiLSTM and Bidirectional Attention Flow (reports/6837725.pdf)	Mojtaba Sharifzadeh
SQuAD Model Exploration: BiDAF and Input Feature (reports/6871894.pdf)	Ben Barnett, Jeffrey Dong Chen
Question Answering with the SQuAD (reports/6906590.pdf)	Wayne Lu
Question Answering on the SQuAD Dataset (reports/6899812.pdf)	Yongshang Wu, Hao Wang
Building a Question Answering System with a Character Level Convolutional Neural Network and Attention Layers – Is it a good idea? (reports/6909289.pdf)	Praveen Govindraj
Pay More Attention: Neural Architectures for Question-Answering (reports/6860231.pdf)	Zia Hasan, SebastianFiscer
Question Answering model using BiDAF (reports/6909183.pdf)	Shawn Hu, Ran Gross
Reading Comprehension with Neural Networks (reports/6890551.pdf)	Andrew Weitz
Question Answering on the SQuAD Dataset (reports/6883038.pdf)	Hyun Sik Kim
Question answering on the SQuAD dataset with bidirectional attention flow (reports/6897532.pdf)	Brahm Capoor, Varun Nambikrishnan
Question Answering with Bi-directional Attention and Character Embedding (reports/6909042.pdf)	Yuting Sun, xiangcao liu
Ask BiDAF (reports/6857043.pdf)	Mitchell Douglass, Caelin Tran, Griffin Slade Koontz
A Bi-directional Attention Flow (BiDAF) Model for the Stanford Question Answering Dataset (SQUAD) (reports/6906662.pdf)	Charles Hale, Helen Xiong
Question Answering on SQuAD (reports/6850621.pdf)	Jake Smola, Evan
Coattention-Based Neural Network for SQuAD Question Answering (reports/6905745.pdf)	Xizhi Han, Yue Hui
Bi-Directional Attention and Beyond: Double BiDAF with Residual Connections for Question Answering (reports/6873963.pdf)	Pedro Montebello Milani

Machine Reading Comprehension on SQuAD with Relevance Encoder (reports/6907849.pdf)	Feng Liu, Qixiang Zhang
Question Answering (reports/6853494.pdf)	Bowen Deng
Question Answering with Various Attention Mechanisms (reports/6883098.pdf)	Yinghao Sun
Exploring speed and memory trade-offs for achieving optimum performance on SQuAD dataset (reports/6909117.pdf)	Renat
Question Answering System with the Dynamic Coattention Network (reports/6906006.pdf)	Yi Sun
A Modular Architecture for Machine Comprehension (reports/6836033.pdf)	William Arthur Clary
Reading Comprehension with the SQuAD (reports/6838047.pdf)	Hugo Andres Valdivia, Miguel Garcia
Machine Comprehension with Bi-directional and Self-attention Flow (reports/6897178.pdf)	Ji Yu, Tianpei Qian
CS224N Project Report: Bidirectional Attention Flow and Self Attention Mechanisms for Machine Comprehension (reports/6856729.pdf)	Jervis Jerome Muindi, Richard Ruiqi Yang
SQuAD Reading Comprehension Task - CS224n Final Project (reports/6878956.pdf)	Adva Wolf
Machine Reading Comprehension On SQuAD (reports/6909266.pdf)	Tian Tan, Don Mai
A Hybrid Deep Learning System for Machine Comprehension (reports/6879317.pdf)	Gang Wu
A Deep Learning System for the Stanford Question Answering Dataset (SQuAD) (reports/6918042.pdf)	AmirMahdi Ahmadinejad
Machine Learning Optimization for SQuAD (reports/6884108.pdf)	Julian Sinohe Villalpando
Final Project Report: SQuAD (reports/6906383.pdf)	Winston Taojie Wang, Michael Chung
Question Answering System on the Stanford Question Answering Dataset (SQuAD) (reports/6879646.pdf)	Richard Akira Heru
Final default project: questions answering with deep learning (reports/6878269.pdf)	Denis Ulanov, David Uvalle

Exploring Deep Learning Solutions for Question-Answering and Reading Comprehension Tasks (reports/6900523.pdf)	Rodrigo Grabowsky, Kimberly Wijaya
BiDirectional Attention for Machine Comprehension (reports/6886477.pdf)	Anand Venkatesan, Ananthakrishnan Ganesan
Replicating Advances in Question-Answering with Deep Learning and Complex Attention (reports/6907048.pdf)	Stuart Cornuelle
Reading Comprehension On SQuAD: An Insight into BiDAF (reports/6876561.pdf)	Vivekkumar Patel, Shreyash Pandey
CS 224N Default Final Project: Question Answering (reports/6915383.pdf)	Raghunath Krishnamurthy
The SQuAD Challenge - results of several (reports/6906578.pdf)	Rajeeva Gaur, satyam
Question Answering with Hybrid Attention Network (reports/6879602.pdf)	Yicheng Li, Xiuye Gu
Machine Comprehension using Deep Learning (reports/6879499.pdf)	Sharman W Tan, Henry Lin
Machine Reading Comprehension for the SQuAD Dataset using Deep Learning (reports/6918297.pdf)	Chung Fat Wong
Question Answering with Bi-directional Attention Flow and Self-Attention (reports/6878775.pdf)	Olivier Pham, Yuguan Xing
Question Answering On the SQuAD Dataset (reports/6856586.pdf)	Jonas Shomorony
Default Final Project for CS224N - Self-Attention (reports/6879303.pdf)	Jaak Joonas Uudmae
GE-BiDAF: A Question Answering model for SQuAD (reports/6908914.pdf)	binbin xiong, Minfa Wang
SquaD Reading Comprehension (reports/999.pdf)	Xinyi Jiang