CS 159, Fall 2021 - Week 5

Instructions: First, read the textbook reading for the week: J&M 18.1-18.5.1, 4.8-4.9 (starting on the bottom of page 13). Background from both your Chapter 6 reading last week and the readings for this week will help for your research reading this week.

The following papers were written for SemEval 2020 as proposed systems to address two tasks. In Task 1: Unsupervised Lexical Semantic Change Detection, systems are meant to identify words whose meanings have changed over time (i.e., words that lost or gained a sense). In Task 3, Graded Word Similarity in Context, systems try to predict how word contexts will affect perceptions of similarity between pairs of words.

Choose a paper corresponding to one of the submissions below and read it by **Monday 10/4**. Your goal will be to briefly "present" this paper using an elevator speech in collaboration with other folks reading about systems for the same task. Summaries are written for different audiences: I'd like you to imagine that the audience for this summary is other people who already know what the task is but have never built their own system for it (e.g., your classmates). This means your summary should spend fairly little time introducing the task, dataset, or evaluations, and should instead focus on the unique motivation and design the paper put forward. You'll be writing this summary *in class*, so just take notes about the reading as you usually would. Though you are not responsible for closely reading the task writeups linked above, they may be helpful resources as you read.

Things to attend to as you read:
- What did authors identify as particularly challenging about this problem?
- What did authors state made their work different from others?
- What justification did authors use that their method worked the way they suggested? (That is, not just "which scores improved", but "did the scores improve the way the authors suggested they should from their approach")
- What did the authors not get around to?

Task 1. Unsupervised Lexical Semantic Change Detection

Task 1 Papers	Student (1-2 per paper)
DiaSense https://www.aclweb.org/anthology/2020.semeval-1.4/	1. Alicia Lu 2. Anirudh
Random	1. Rachel Wander

https://www.aclweb.org/anthology/2020.semeval-1.7/	2. Dana Harris
IMS https://www.aclweb.org/anthology/2020.semeval-1.8/	1. Max Szostak 2.
RIJP https://www.aclweb.org/anthology/2020.semeval-1.10/	1. Trenton Wesley 2. Jean Pierre Nizeyumukiza
RPI https://www.aclweb.org/anthology/2020.semeval-1.11/	1. Amy Tam 2.
UiO-UvA https://www.aclweb.org/anthology/2020.semeval-1.14/	1. Michelle Lum 2.
CIRCE https://www.aclweb.org/anthology/2020.semeval-1.21/	1. Mia Taylor 2. Rhea Zaverchand
EmbLexChange https://www.aclweb.org/anthology/2020.semeval-1.24/	1. 2.
TemporalTeller https://www.aclweb.org/anthology/2020.semeval-1.27/	1. Tatsuki Kuze 2. Kamarion Porter
UWB https://www.aclweb.org/anthology/2020.semeval-1.30/	1. 2.

Task 3. Graded Word Similarity in Context

Task 3 Papers	Student (1-2 per paper)
BabelEncoding https://www.aclweb.org/anthology/2020.semeval-1.5/	1. Eve Kazarian 2. Kate Perkins
BRUMS https://www.aclweb.org/anthology/2020.semeval-1.16/	1. 2.

MineriaUNAM https://www.aclweb.org/anthology/2020.semeval-1.17/	1. 2.
MULTISEM https://www.aclweb.org/anthology/2020.semeval-1.18/	1. Nico Espinosa Dice 3. Nick Dazell
AlexU-AUX-BERT https://www.aclweb.org/anthology/2020.semeval-1.33/	1. Alex Bishka 2. Shinn Taniya
CitiusNLP https://www.aclweb.org/anthology/2020.semeval-1.34/	1.Jack Ontiveros 2.
Ferryman https://www.aclweb.org/anthology/2020.semeval-1.35/	1. Saatvik Sejpal 3. Anan Aramthanapon
Hitachi https://www.aclweb.org/anthology/2020.semeval-1.36/	1. Cindy Lay 2.
Will_Go https://www.aclweb.org/anthology/2020.semeval-1.38/	1. 2.