SUSTech Southern University of Science and Technology

南方科技大学 SOUTHERN UNIVERSITY OF SCIENCE AND TECHNOLOGY

地球与空间科学系 DEPARTMENT OF EARTH AND SPACE SCIENCES

GGC5039 / ESS419

Academic Communication

Section 3-3: Writing and Publishing (ESL)

Instructor: Dikun Yang

Term: Fall 2020-2021

Outline

- Section 1: **Introduction** (2 hr)
- Section 2: **International communications** (2 hr)
- Section 3: **Writing and publishing** (8 hr) – Assignment 15%
- Section 4: **Presentations at conferences** (6 hr) – Assignment 15%
- Section 5: **Writing proposals and applications** (6 hr) – Assignment 15%
- Section 6: **Interviews** (4 hr) – Assignment 15%
- Section 7: **New media** (2 hr) – Assignment 15%
- Section 8: **Integrated practice** (2 hr) – Final defense/participation 25%

English as Second Language

- Supremacy of English in academia
  - Migration of academic centers
  - A simple language for efficient communication
  - English is our friend
- Being logical (SVO test)
- No translation – Think in English
- Read: Collect templates from published papers
- Write: Practice as much as you can
- Learn from proofreading/editing software/services

ESL Basics

- Keep it simple (be logical…)

"We know that in the practical experiments, some factors such as survey environment, instrument performance and the setting of some measurement parameter will affect the measurement effect and signal quality, which means the anomaly can't be detected any more when the relative anomaly is smaller than a threshold which is determined by the mentioned factors."

ESL Basics

- Dangling modifiers: Word or phrase that doesn't actually modify the word it's intended to modify.

"Using the new data acquired in the winter of 2012, a comparative analysis of the surface deformation indicates the possibility of rapid water circulation in this basin."

"Our team installed a new sensors on the boat, which was re-calibrated by the GPS clock."

ESL Basics

- Pronoun and its antecedent

"Two additional surveys were carried out to supplement the data sets from USGS, but further inspection showed that there are many unreliable measurements in those data."

ESL Basics

- Capitalization

"We carefully examined Model 1 and Model 2 with a random testing model."

"I entered the geophysics program in 2018, and have so far published two articles in Geophysics."

"Reverse time migration (RTM) was the primary tool of imaging in the past ten years."

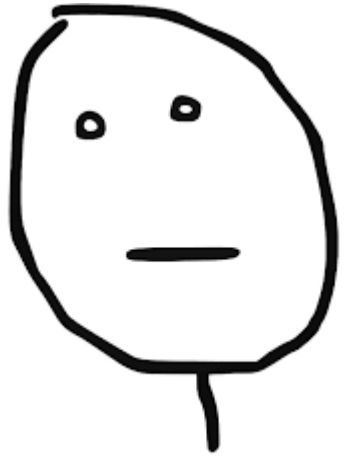
ESL Basics

- Relative clauses
  - Defining: Essential information so you know who is being referred to
  - Non-defining: Additional information

"The seismic data were processed with five different sets of FWI parameters. Figure 4 shows a reconstructed velocity model which/that agrees with the geological cross section in Smith (1997)."

"The reconstructed velocity model, which agrees with the geological cross section in Smith (1997), is shown along with the well logging information in Figure 4."

ESL Basics



- Emotionally neutral

"We appreciate the previous publications, which enlightened us and set the foundation of the new algorithm presented here."

"We are grateful to Dr. San Zhang for his inspiring discussion."

ESL Basics

- Past or present tense (as if you are telling a story)

"The geological setting of this area is characterized by three faults dipping to the north (Smith 1997)."

"We imaged the dipping geometry of all three faults using the earthquake data."

"Our imaging results in Figure 4 agree well with Smith (1997), but cannot explain the gravity data."

ESL Basics

- Active or passive voice

  “Deep aquifers are often recharged by the snow water in the mountains nearby.” vs. “The snow water in the mountains nearby often recharges deep aquifers.”

  “It is shown that the fossils were wiped out by massive flooding in about 1 million years.” vs. ”We show that massive flooding wiped out the fossils in about 1 million years.”

  “The two time series were transformed to Fourier domain and compared in Figure 2.” vs. “We transform the two time series to Fourier domain and compare them in Figure 2.”

Exercise

He said, in speaking of the word “that”, that that “that” that that student referred to was not that “that” that that other student referred to.

Exercise

“Similar to previous analysis, we took model 1 as background model. A serious of models was built and used as target model. The shallow three layer of these models are the same as model 2.”

Exercise

“In the sub-task process, once it requires parallelism, let more threads join to computations. That avoids the time-consuming resulting from communications between processors in MPI.”

Exercise

“Through the analysis of the average time, we can see that the average time changes slightly before eight processors used.”

Exercise

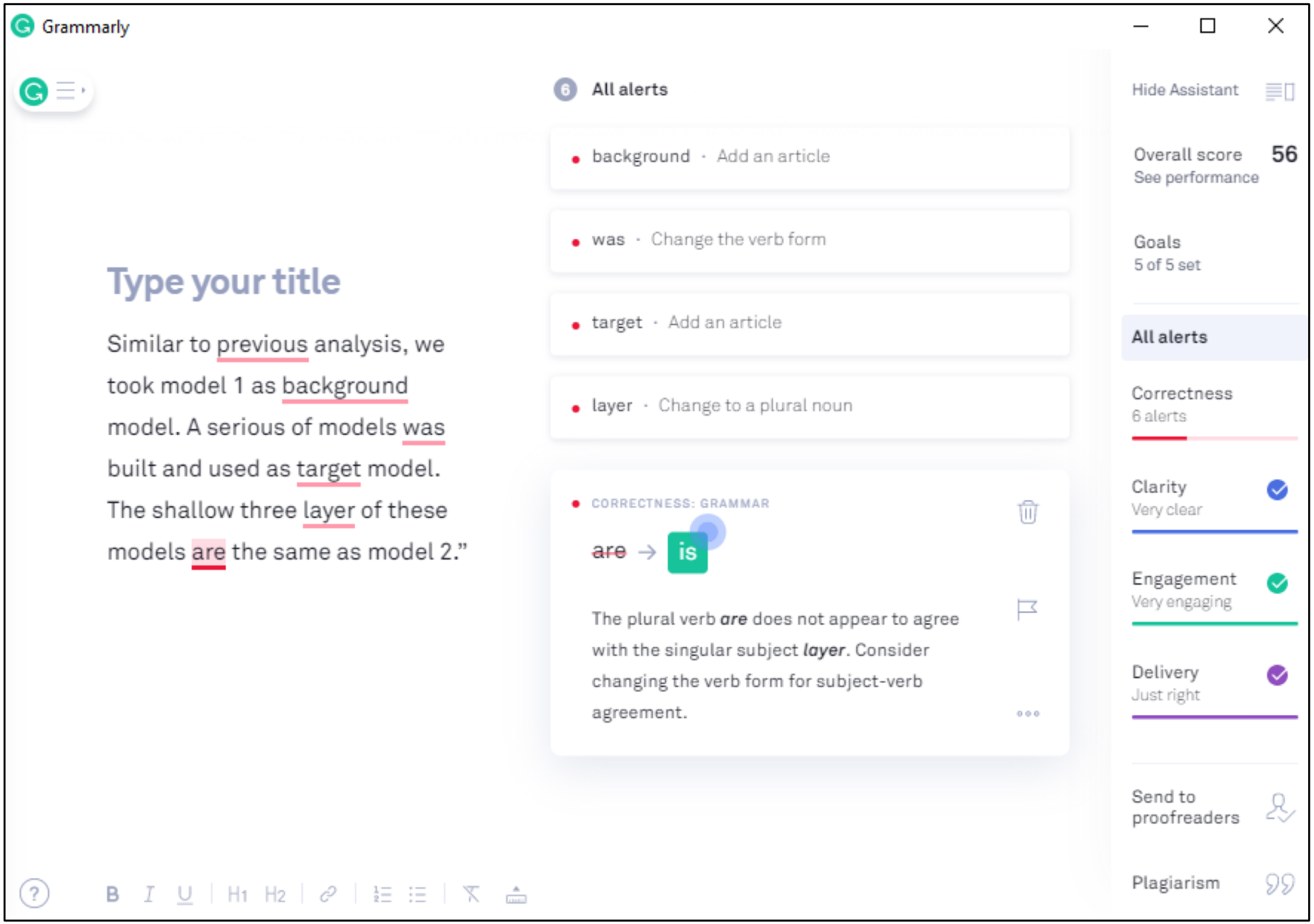
“Areas with a volume content of more than 8.5% oil yield will be used for producing oil, and areas with less than an 8.5% oil yield will be utilized for power generation.”

Exercise

“The array type configuration provided responses from multiple offsets at each recording station, which increased the vertical resolution, and reduced the layer equivalence.”

Assignment

- Write a short article with the topic you chose
- Use IMRAD to structure your paper
- Maximum 4 pages; minimum 1 page
- Find a template from a conference or a journal
- Make sure it contains as many ingredients above as possible
- Can be either in Chinese or English
- Graded based on format, not scientific contents
- Due data: The start of Section 4; please turn in printed copies


Grammarly
Type your title
Similar to previous analysis, we took model 1 as background model. A serious of models was built and used as target model. The shallow three layer of these models are the same as model 2."
6 All alerts
background · Add an article
was · Change the verb form
target · Add an article
layer · Change to a plural noun
CORRECTNESS: GRAMMAR
are → is
The plural verb are does not appear to agree with the singular subject layer. Consider changing the verb form for subject-verb agreement.
Hide Assistant
Overall score 56
See performance
Goals
5 of 5 set
All alerts
Correctness
6 alerts
Clarity
Very clear
Engagement
Very engaging
Delivery
Just right
Send to proofreaders
Plagiarism