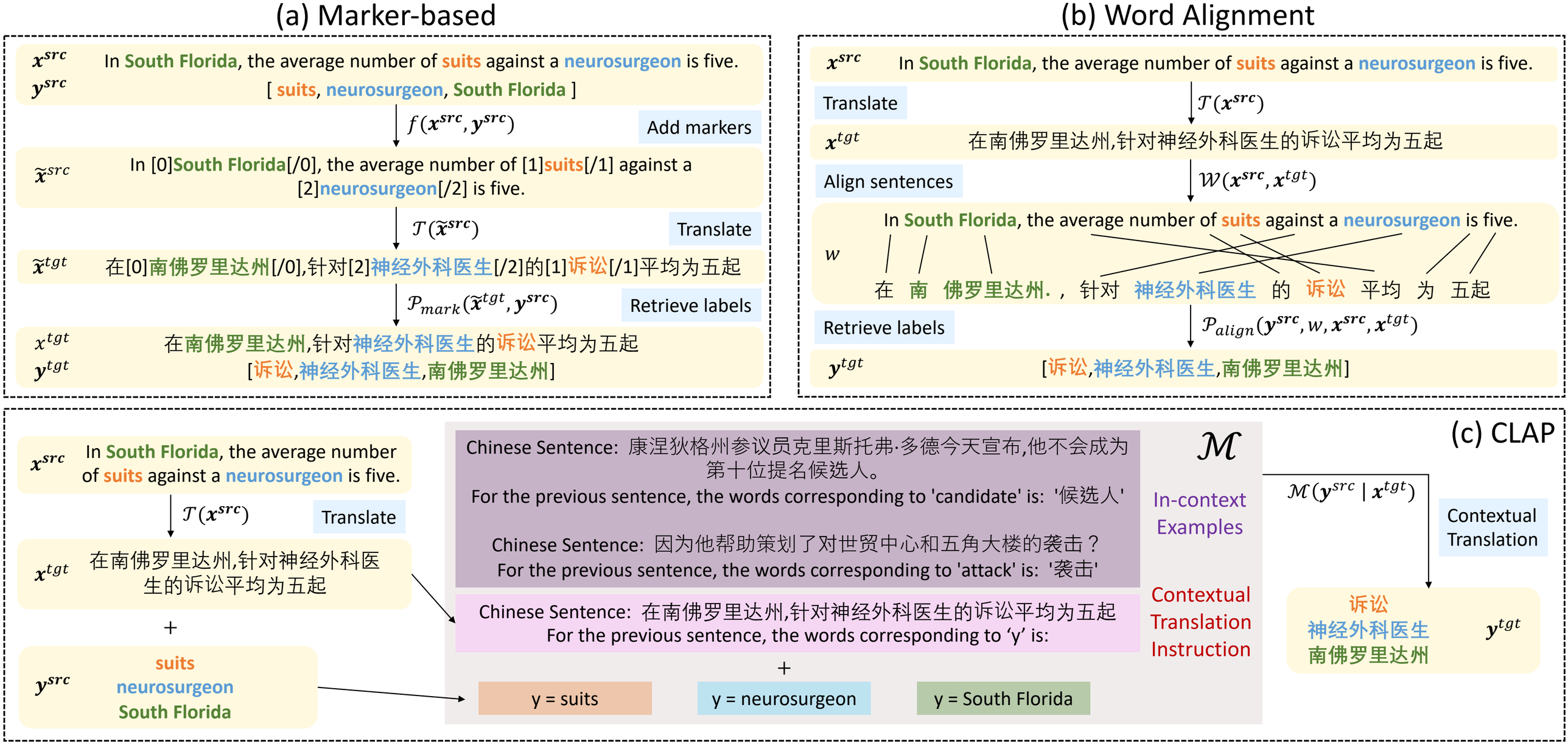
(a) Marker-based
x^{src} In South Florida, the average number of suits against a neurosurgeon is five.
y^{src} [suits, neurosurgeon, South Florida]
$f(x^{src}, y^{src})$
Add markers
$\tilde{x}^{src}$ In [0]South Florida[/0], the average number of [1]suits[/1] against a [2]neurosurgeon[/2] is five.
$\mathcal{T}(\tilde{x}^{src})$
Translate
$\tilde{x}^{tgt}$ 在[0]南佛罗里达州[/0],针对[2]神经外科医生[/2]的[1]诉讼[/1]平均为五起
$\mathcal{P}_{mark}(\tilde{x}^{tgt}, y^{src})$
Retrieve labels
x^{tgt} 在南佛罗里达州,针对神经外科医生的诉讼平均为五起
y^{tgt} [诉讼,神经外科医生,南佛罗里达州]
(b) Word Alignment
x^{src} In South Florida, the average number of suits against a neurosurgeon is five.
Translate
$\mathcal{T}(x^{src})$
x^{tgt} 在南佛罗里达州,针对神经外科医生的诉讼平均为五起
Align sentences
$\mathcal{W}(x^{src}, x^{tgt})$
w
In South Florida, the average number of suits against a neurosurgeon is five.
在 南 佛罗里达州. , 针对 神经外科医生 的 诉讼 平均 为 五起
Retrieve labels
$\mathcal{P}_{align}(y^{src}, w, x^{src}, x^{tgt})$
y^{tgt} [诉讼,神经外科医生,南佛罗里达州]
(c) CLAP
x^{src} In South Florida, the average number of suits against a neurosurgeon is five.
$\mathcal{T}(x^{src})$
Translate
x^{tgt} 在南佛罗里达州,针对神经外科医生的诉讼平均为五起
+
y^{src} suits neurosurgeon South Florida
$\mathcal{M}$
Chinese Sentence: 康涅狄格州参议员克里斯托弗·多德今天宣布,他不会成为第十位提名候选人。
For the previous sentence, the words corresponding to 'candidate' is: '候选人'
Chinese Sentence: 因为他帮助策划了对世贸中心和五角大楼的袭击？
For the previous sentence, the words corresponding to 'attack' is: '袭击'
In-context Examples
Chinese Sentence: 在南佛罗里达州,针对神经外科医生的诉讼平均为五起
For the previous sentence, the words corresponding to 'y' is:
Contextual Translation Instruction
+
y = suits
y = neurosurgeon
y = South Florida
$\mathcal{M}(y^{src} \mid x^{tgt})$
Contextual Translation
诉讼
神经外科医生
南佛罗里达州
y^{tgt}