Taking a SEAT: Predicting Value Interpretations from Sentiment, Emotion, Argument, and Topic Annotations

Adina N. Dobrinoiu*, Ana C. Marcu*,
Amir Homayounirad, Luciano C. Siebert, **Enrico Liscio**

TUDelft   **H** Hybrid Intelligence   AlgoSoc /

Value Interpretations

People interpret the same text's values differently. Current NLP practices often assume one "correct" label.
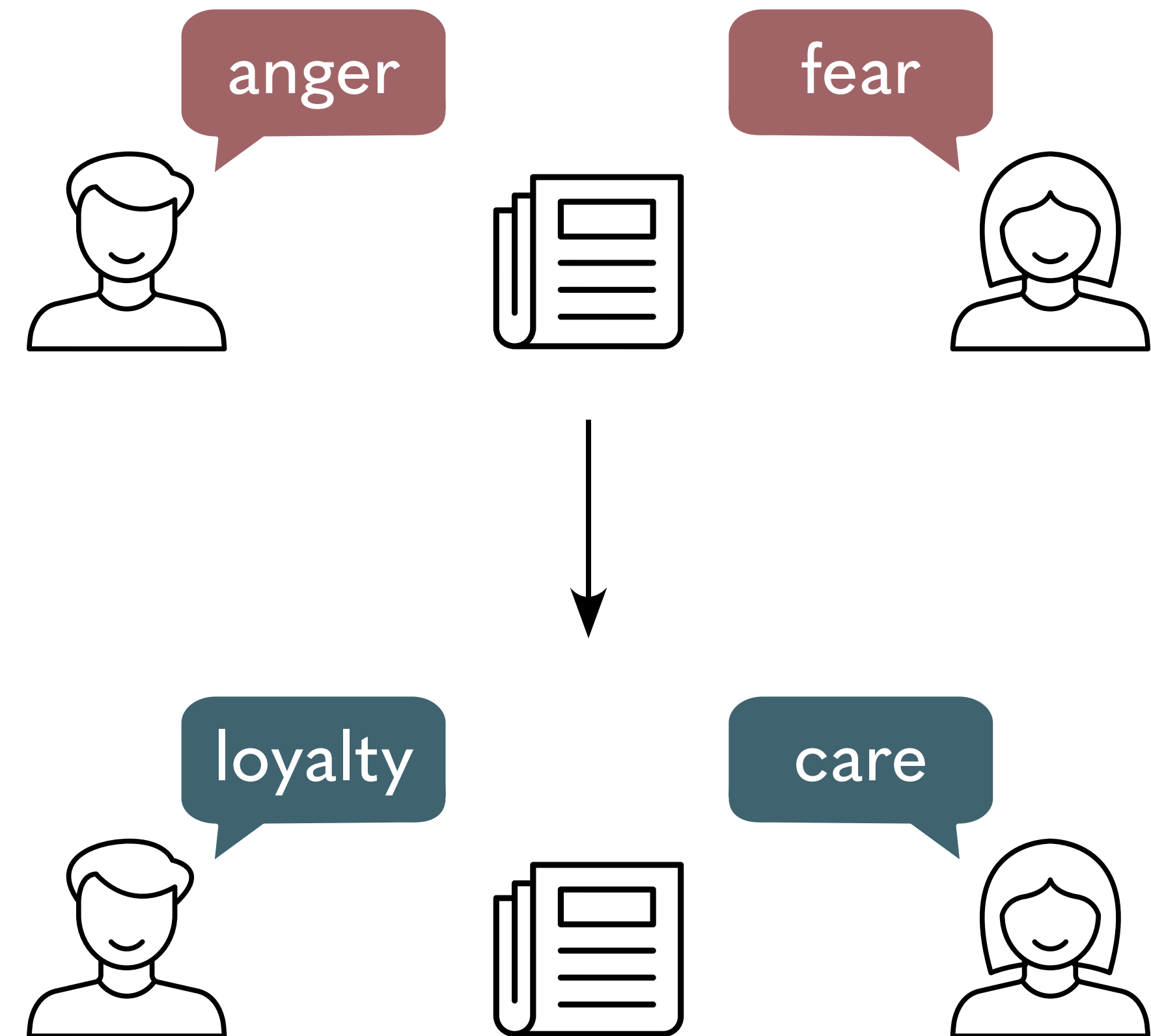
Can we predict how an individual will interpret values?

Individual Value Interpretations

Demographics not always correlate with our interpretive style.

A person's intepretation of text over other subjective dimensions (Sentiment, Emotion, Argument, Topic) can reveal their interpretive lens.

anger

fear

loyalty

care

Experiments

50 citizen justifications (green energy transition) x 5 annotators.
Each labeled SEAT dimensions + values (extended Schwartz taxonomy).

Baseline: zero-shot Llama-3.1-8B-Instruct. Per annotator, we test 20 combinations:

	Sentiment	Emotion	Argument	Topic	All
One-shot	OS-S	OS-E	OS-A	OS-T	OS-all
Few-shot (5)	FS-5-S	FS-5-E	FS-5-A	FS-5-T	FS-5-all
Few-shot (10)	FS-10-S	FS-10-E	FS-10-A	FS-10-T	FS-10-all
Few-shot (15)	FS-15-S	FS-15-E	FS-15-A	FS-15-T	FS-15-all

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Few-shot (5)	FS-5-S	**FS-5-E**	FS-5-A	FS-5-T	FS-5-all
Few-shot (10)	FS-10-S	FS-10-E	FS-10-A	FS-10-T	FS-10-all
Few-shot (15)	FS-15-S	FS-15-E	FS-15-A	FS-15-T	FS-15-all

Main Results

- **Providing a few examples with all SEAT annotations improves over the baseline.** Providing the individual SEAT dimensions does not.

- The trends are **consistent across annotators** (despite individual performance differences).

- Come check the poster for more results!
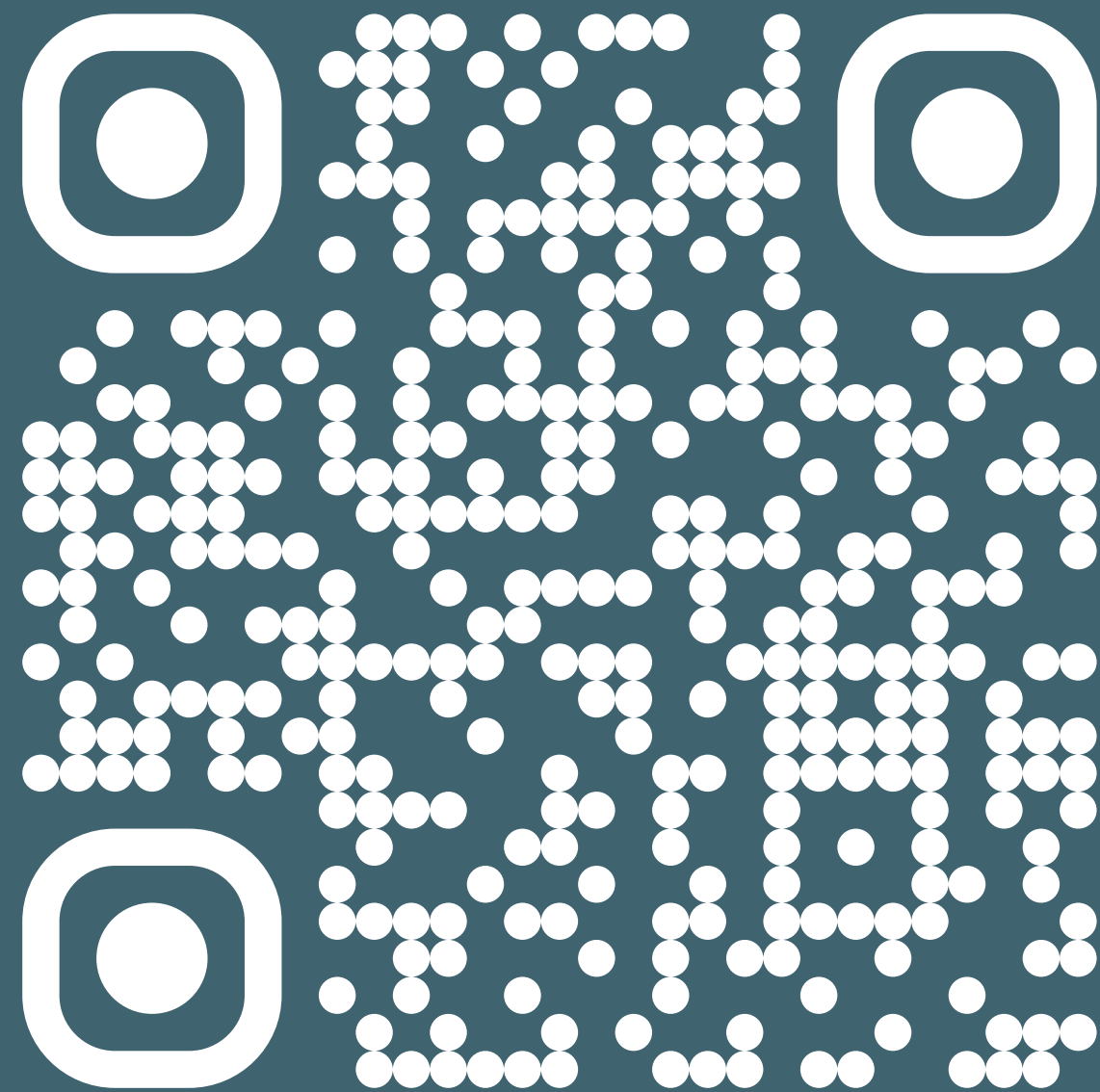
Thank you!

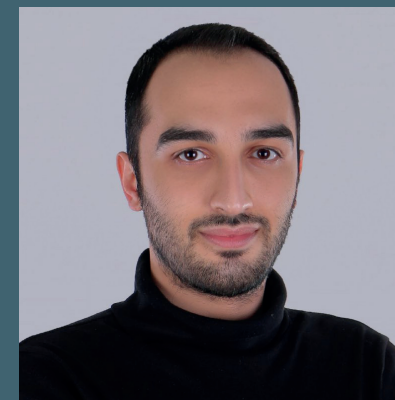✉ e.liscio@tudelft.nl   🌐 enricoliscio.github.io

Link to the paper!

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Luciano C. Siebert

Enrico Liscio