A Persona-based Analysis of Politeness in Japanese and Spanish

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Japanese

- (1) *yamada-san-wa asita koogi-o nasar-u.* Yamada-Ms.-TOP tomorrow lecture-ACC do.SH-PRS
 - '(i) Ms. Yamada will have a lecture tomorrow;
 - (ii) the speaker respects the referent of the subject (= Ms. Yamada).'

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Spanish

(2) Profesor, ¿tiene usted horas de oficina mañana? professor have.3P.SG you.POL hours of office tomorrow 'Professor, do you have office hours tomorrow?'

Guiding questions

- ► How much inter- and intra-speaker variation is there in the use of politeness forms in Japanese and Spanish?
- What is the source(s) this variation?
- ▶ What is the nature of these politeness features? Are they comparable in Japanese and Spanish?

Goals of this talk

- Present data that highlights variation in each language.
- Develop a Bayesian pragmatic model for how politeness interacts with various contextual factors simultaneously.
- Illustrate how Bayesian inferences (statistical learning) allow for the creation of specific personas of discourse participants.

Roadmap

Background

Japanese Spanish Interim Summary and Desiderata for Model

A Bayesian Dynamic Pragmatics Account
Dynamic Pragmatics
Discussion

Dynamic update as persona-learning

Theoretical Implications and Future Work Extending our Model Conclusions

Background

Japanese: Subject Honorifics

- (3) a. *yamada-san-wa asita koogi-o sur-u.* Yamada-Ms.-TOP tomorrow lecture-ACC do-PRS 'Ms. Yamada will have a lecture tomorrow.'
 - b. yamada-san-wa asita koogi-o nasar-u.
 Yamada-Ms.-TOP tomorrow lecture-ACC do.SH-PRS
 '(i) Ms. Yamada will have a lecture tomorrow;
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Japanese: Subject Honorifics

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 - b. yamada-san-wa asita koogi-o nasar-u.
 Yamada-Ms.-TOP tomorrow lecture-ACC do.SH-PRS
 '(i) Ms. Yamada will have a lecture tomorrow;
 (ii) the speaker respects the referent of the subject (= Ms. Yamada).'
 - Truth conditionally, (a) and (b) are equivalent
 - (b) delivers secondary information that the speaker expresses their respect for the referent of the subject (= Ms. Yamada)

Japanese: Addressee Honorifics

- (4) a. yamada-san-wa asita undoo-o sur-u.
 Yamada-Ms.-TOP tomorrow exercise-ACC do-PRS
 'Ms. Yamada will do exercise tomorrow'
 - b. yamada-san-wa asita undoo-o si-mas-u.
 Yamada-Ms.-TOP tomorrow exercise-ACC do-AH-PRS
 '(i) Ms. Yamada will do exercise tomorrow;
 (ii) the speaker respects the addresses.'
 - (ii) the speaker respects the addressee.'

Japanese: Addressee Honorifics

- (4) a. yamada-san-wa asita undoo-o sur-u. Yamada-Ms.-TOP tomorrow exercise-ACC do-PRS 'Ms. Yamada will do exercise tomorrow'
 - b. yamada-san-wa asita undoo-o si-mas-u.
 Yamada-Ms.-TOP tomorrow exercise-ACC do-AH-PRS
 '(i) Ms. Yamada will do exercise tomorrow;
 (ii) the speaker respects the addressee.'
 - Again, at-issue meaning is equivalent in (a) and (b)
 - ▶ (b) delivers secondary information that the speaker expresses their respect for the addressee (= Ms. Yamada)

Japanese: Initial Assessment

- Traditional Japanese linguistics has tacitly assumed that SH and AH as instances of the same honorific property.
- Their differences have not been the target of theoretical investigation (Kikuchi 1997 [1994]).
- If politeness meanings are regulated by same principle, SH and AH should pattern together.

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- Traditional Japanese linguistics has tacitly assumed that SH and AH as instances of the same honorific property.
- Their differences have not been the target of theoretical investigation (Kikuchi 1997 [1994]).
- If politeness meanings are regulated by same principle, SH and AH should pattern together.
- This does not happen (AH without SH):
- (5) asita happyoo-o si-**mas**-u-ka? tomorrow presentation-ACC do-AH-PRS-Q
 - '(i) Are you having a presentation tomorrow?;
 - (ii) the speaker respects the addressee (< -mas).'

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 - ► (tú,usted)
 - Adhere to canonical Latin T/V distinction (Brown & Gilman, 1960)
 - T: based on familiarity/confidence
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 - ► (tú,usted, vos)
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 - Allow for variation within T forms
- Prescriptive factors govern use
- Discourse-based corpus studies show intra-speaker variation allows for personal identity creation dependent on context (Helinks, 2015; Fernández-Mallat, 2020)

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para adónde vai cabrita 'where are youV going young lady'
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cómo está mi niña? 'how are youU honey?'
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que eres fresca eh? 'you'reT such a rascal, eh?'

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cómo está mi niña?

cómo está?

'how are youU honey?'

'how are youU?'

i:

para adónde vai cabrita

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i:

que eres fresca eh?

'you'reT such a rascal, eh?'

sí

'yes'

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'yes'
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- ► All three forms employed: (1) usted, (2) vos, (3) tú
- Variation shows navigation of authority and care, alongside other lexical discursive markers and intonation (Prieto et al., 2011)
- Such variation is observed in institutional contexts, as well (Fernández-Mallat, 2020).

Notable differences

- Japanese encodes honorificity in verbal domain; Spanish encodes politeness in nominal domain
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Similarities

- General consensus on when to use politeness-oriented expressions
 - SH and usted make reference to social hierarchy
- Strategic violation of socially expected politeness is permitted
 - SH, AH and Spanish personal pronouns allow speaker to perform certain identities, within limits

(7) Teacher-Student Test

Can a teacher/president (someone with a higher social status) use the honorific form to a student/employee (someone with a lower social status) without intentionally violating the expectation in the society?

Desiderata for a pragmatic model of politeness in Japanese and Spanish:

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1. **Prior condition**: prior to the new utterance, the context expects the speaker to use/not to use a politeness-oriented expression.

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Desiderata for a pragmatic model of politeness in Japanese and Spanish:

- 1. **Prior condition**: prior to the new utterance, the context expects the speaker to use/not to use a politeness-oriented expression.
- Posterior condition: by (not) being produced by the speaker, a politeness-oriented expression changes the context in a certain way.
- Relation with social/pragmatic factors: more than one factors contribute to the choice of the politeness-oriented form. When a language has more than two honorific systems, each system may have different weights to these factors.

A Bayesian Dynamic Pragmatics Account

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Our departure point

Multiple factors: rather than a single, dominant pragmatic factor (Kikuchi 1997 [1994]; McCready 2014, 2019)

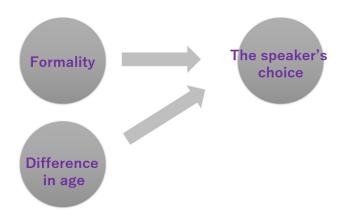
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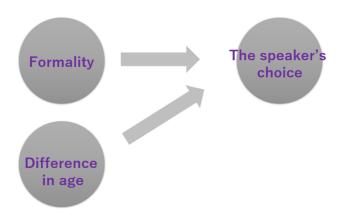
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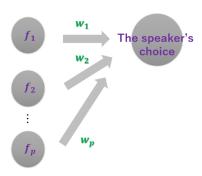
Our departure point

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How can we model their pragmatic profiles?

Our departure point (cf., Brown and Levinson 1987; McCready 2014)



Our departure point

(8)
$$w_1 f_1 + w_2 f_2 + \ldots + w_p f_p$$

$$f_1 \qquad w_1 \qquad \text{The speaker's choice}$$

$$\vdots \qquad w_p$$

Our departure point

(8)
$$w_1 f_1 + w_2 f_2 + \ldots + w_p f_p$$

$$= \begin{pmatrix} w_1 \\ w_2 \\ \vdots \\ w_p \end{pmatrix}^T \begin{pmatrix} f_1 \\ f_2 \\ \vdots \\ f_p \end{pmatrix}$$

$$f_1$$
The speaker's choice
$$f_2$$

$$\vdots$$

$$f_p$$

$$w_p$$

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(cf., Brown and Levinson 1987; McCready 2014)

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For Japanese, we use \mathbf{w}^a for AHs and \mathbf{w}^s for SHs.

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For Japanese, we use \mathbf{w}^a for AHs and \mathbf{w}^s for SHs. For Spanish, we use \mathbf{w} .

Structured Discourse Context

(9) Structured Discourse Context (Version 1 out of 3) $c = \langle cg, qs, tdl \rangle$

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- (10) Structured Discourse Context (Version 2 out of 3)
 - a. $c = \langle cg, qs, tdl, p \rangle$

Structured Discourse Context

(9) Structured Discourse Context (Version 1 out of 3) $c = \langle cg, qs, tdl \rangle$

(10) Structured Discourse Context (Version 2 out of 3)

a.
$$c = \langle cg, qs, tdl, p \rangle$$

b.
$$p = \left\{ \begin{array}{c} < \textit{alice}, \mathbf{w}^{\textit{a}}_{\text{alice}}, \mathbf{w}^{\textit{s}}_{\text{alice}} >, \\ \\ \end{array} \right\}$$

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$$\begin{cases} & < \textit{alice}, \mathbf{w}^{a}_{alice}, \mathbf{w}^{s}_{alice} >, \\ & < \textit{bob}, \mathbf{w}^{a}_{bob}, \mathbf{w}^{s}_{bob} >, \end{cases}$$

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Structured Discourse Context

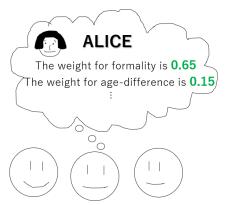
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 alice, $\begin{pmatrix} 0.65\\ 0.15\\ \vdots \end{pmatrix}$, \mathbf{w}^s _{alice} $>$

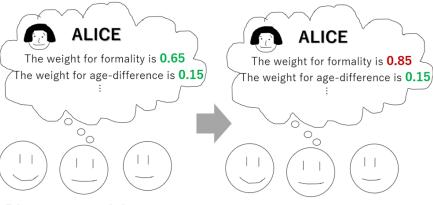
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Discourse participants

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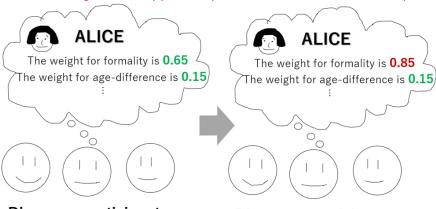
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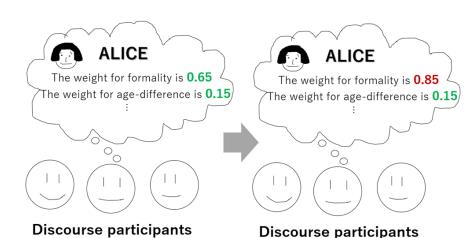
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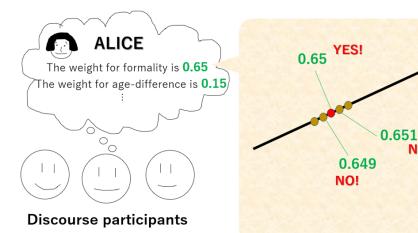
$$<$$
 alice, $\begin{pmatrix} 0.65 \\ 0.15 \\ \vdots \end{pmatrix}$, $\mathbf{w}^s_{\text{alice}} >$ $<$ alice, $\begin{pmatrix} \mathbf{0.85} \\ 0.15 \\ \vdots \end{pmatrix}$, $\mathbf{w}^s_{\text{alice}} >$

$$(a \ a \ a \ a \ a \ c), \mathbf{w}^s_{alice} >$$

Problem: Too confident!

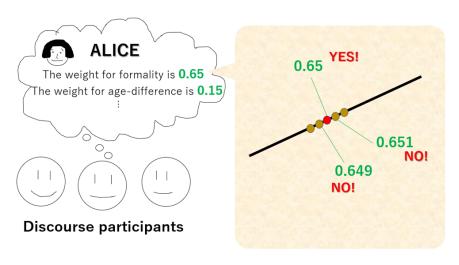


Problem: Too confident!



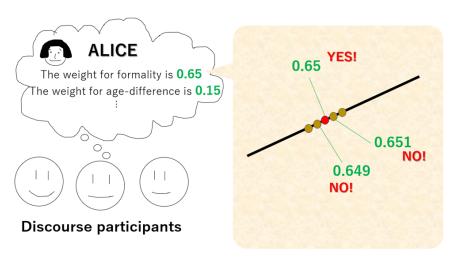
NO!

Problem: Too confident!



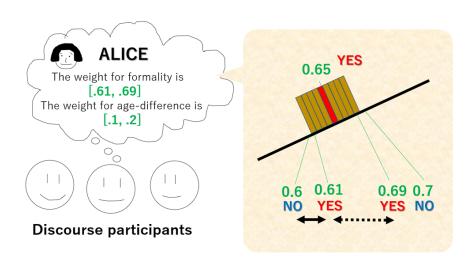
How can we be so sure about one particular value?

Problem: Too confident!



How can we be so sure about one particular value? We wish to incorporate a certain kind of uncertainty (= probability).

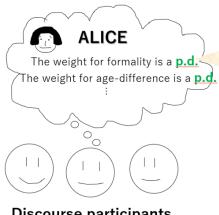
Model 2: Interval approach (cf., Potts 2007; McCready 2014, 2019)

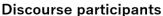


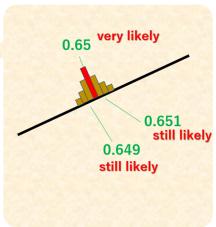
Our model: A Bayesian Dynamic Pragmatics (Yamada 2019)

Sufficiently uncertain:

Uncertainty states are represented as probability distributions.







A discrete model

(11) Structured Discourse Context (Version 2 out of 3)

a.
$$c = \langle cg, qs, tdl, p \rangle$$

b. $p = \left\{ \langle alice, \begin{pmatrix} 0.65 \\ 0.15 \\ \vdots \end{pmatrix}, \mathbf{w}^s_{alice} \rangle, \right\}$

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 \vdots

Bayesian Stats: Uncertainty as a Probability Distribution

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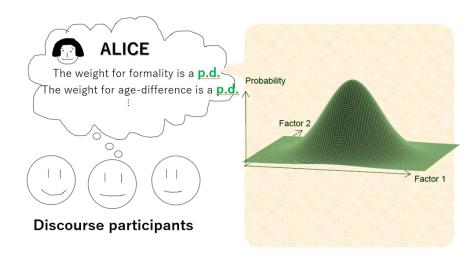
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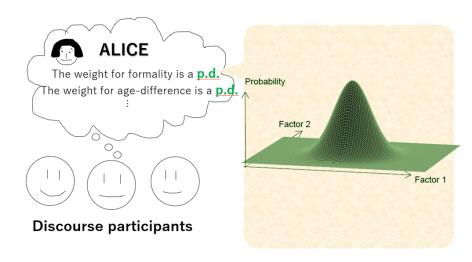
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Proposal: Context change = a change in distribution



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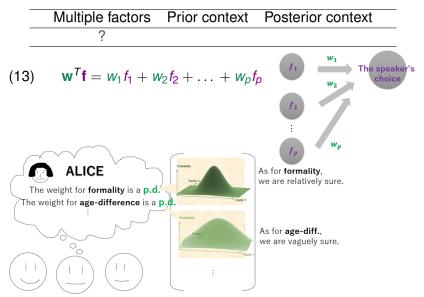


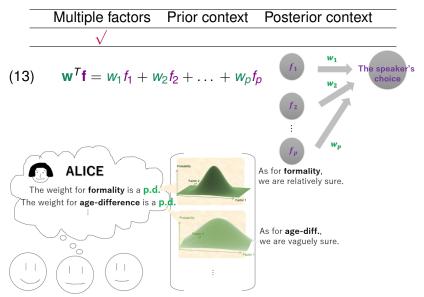
Multiple factors	Prior context	Posterior context
?		

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(13)
$$\mathbf{w}^T \mathbf{f} = w_1 f_1 + w_2 f_2 + \ldots + w_p f_p$$

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_	?			
(13)	$\mathbf{w}^T\mathbf{f} = w_1f_1 + v$	$w_2 f_2 + \ldots + w_p f_1$	f_1 f_2 \vdots f_p	W ₁ The speaker's choice W ₂





Multiple factors	Prior context	Posterior context
	?	

(14)
$$\mathbf{w}^T \mathbf{f} = w_1 f_1 + w_2 f_2 + \ldots + w_p f_p$$

Desiderata

Multiple factors	Prior context	Posterior context
	?	

(14)
$$\mathbf{w}^T \mathbf{f} = w_1 f_1 + w_2 f_2 + \ldots + w_p f_p$$

Fact: The audience can estimate how Alice behaves even before she has started talking to a new addressee (prior to the their utterance).

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Our model: As long as we have already estimated the weights of the relevant factors, we can make a prediction!

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$$\mathbf{w}^T \mathbf{f} = 0.65 \times 1 + 0.15 \times 0 + \dots + 0.22 \times 2$$

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		?

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Our model:

Desiderata

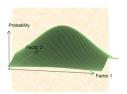
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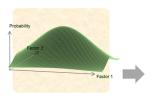
Our model: The speaker makes their audience estimate the weight parameters as intended.

Multiple factors	Prior context	Posterior context
		?

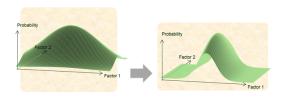
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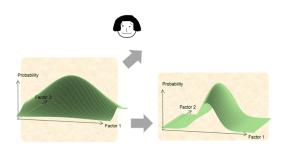
Multiple factors	Prior context	Posterior context
		?



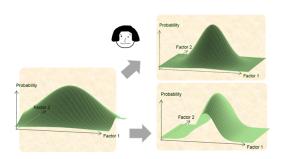
Multiple factors	Prior context	Posterior context
		?



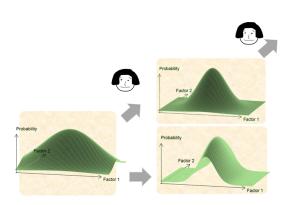
Multiple factors	Prior context	Posterior context
		?



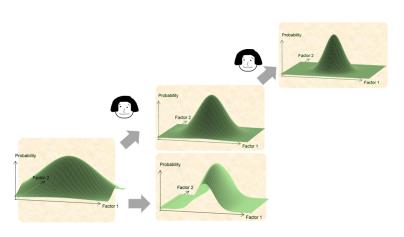
Multiple factors	Prior context	Posterior context
		?



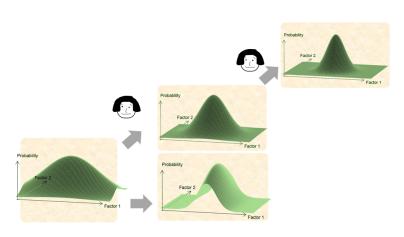
Multiple factors	Prior context	Posterior context
		?

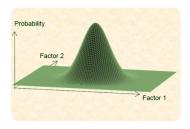


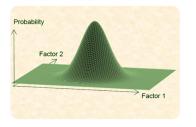
Multiple factors	Prior context	Posterior context
		?

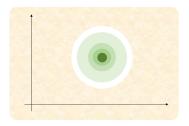


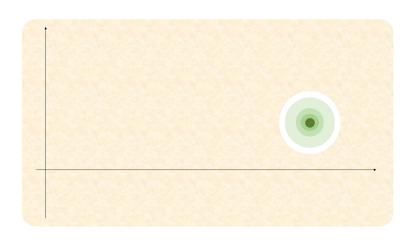
Multiple factors	Prior context	Posterior context

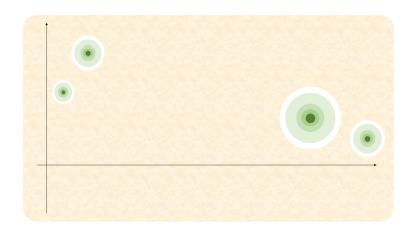


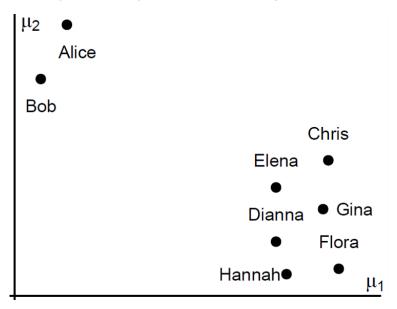












Theoretical Implications and Future Work

Extending our Model

German (du/Sie)

- A man in his mid-thirties went to the barbershop to have his hair cut.
- His barber was male and appeared to be the same age.
- ► The two men spent the duration of the haircut speaking in the third-person (equivalent to English 'one') because neither of them was confident to commit to a formal (Sie 'you') or familiar (du 'you') address form and corresponding relationship.
- ➤ The speaker relayed this story still with ambivalence about how he should have acted.

Conclusions

- We present a model of politeness-oriented features in Japanese and Spanish based on statistical learning.
- At observational level, politeness expressions are strategically used by speakers to create context-specific personas.
- Our model articulates the link between existing analyses of persona and dynamic pragmatic theories for politeness.
- Future work will formalize this how different languages encode politeness features in the syntax and semantics.

¡Gracias! Arigatou! Thank you!

Questions?

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