Introducing Traveling Voices

- The diachronic development of the voice system in the Baltic, Slavic, and Germanic branches from a migrational perspective

Yoko Yamazaki





FOR THE ADVANCEMENT OF THE HUMANITIES AND SOCIAL SCIENCES

23rd March, 2022 Swedish Collegium for Advanced Study Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

Aiming at an interdisciplinary research

Diachronic shift of the voice system Indo-European comparative linguistics

&

Migrational perspective the analysis of ancient DNA

Introducing Traveling Voices

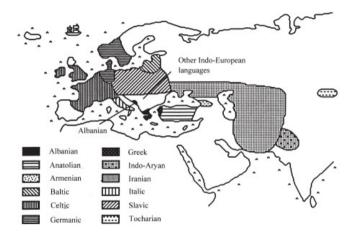
Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

Indo-European language family I



Approximate geographical distribution of Indo-European languages (ca. 1000 BC) Hock and Joseph (2019: 37)

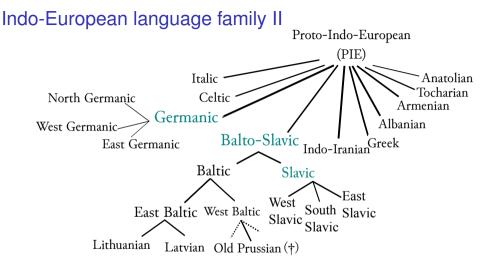
Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system



Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

References

A simplified family tree of the Indo-European branches based on Fortson (2010: 10).

Subgrouping the IE languages I

How do we identify the subgroups?

- Shared Innovations
 - satem branches (Indo-Iranian, Armenian, Balto-Slavic): merger of plain velar and labio-velar (*k^w, g^w); sibilantization of PIE *k, *ĝ, e.g., PIE *kmtom > Skt. śatá-, Ave. satəm, Lith. šimtas, OCS sъto.
 - centum branches (Greek, Italic, Celtic, Germanic): preservation of labio-velar; merger of plain velar and palato-velar, e.g., PIE *kmtom > Lat. centum, (PGmc. *xundan >) Goth. hunda, OHG hunt.
 - Indo-Iranian: satem feature; *e, *a, *o > *a; palatalization before a front vowel; Ruki-rule...
 - Germanic: The first consonant shift (Grimm's Law)
 - Baltic: PIE *o > a; Loss of number distinction of finite verbs in the 3rd person

etc...

Introducing Traveling Voices

Yoko Yamazaki

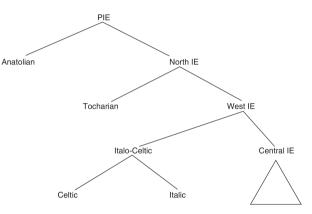
Background

Research Questions

More about the shift of voice system

Subgrouping the IE languages II

► The family tree in Ringe 2006: 5.



Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system



Subgrouping the IE languages III

The family tree in Anthony (2007: 57) based on Ringe, Warnow & Taylor (2002).



Computational simulations (cf. Ringe, Warnow & Taylor 2002)

Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

Subgrouping the IE languages IV

Shared innovation or dialectal diffusion / language contact? — they are often difficult to distinguish.

- ▶ Diffusion (I.-Ir. \rightarrow Slavic \rightarrow Baltic):
 - Ruki rule
 - Lith. aušrà-, Skt. usas- < *h₂eus-rom 'dawn'
 - OCS uxo < *h₂euso- 'ear', but Lith. ausis 'ear'
 - satem feature
 - *k̂ and *ĝ, as sibilants; Skt. śatá-, Ave. satəm, Lith. šim̃tas, OCS sъto '100'
 PIE *k̂mtom
 - Lith. klausýti Skt. śrnóti, OCS slyšati < *kleus- 'to hear'</p>
- Shared innovation?:

Plural oblique cases in *-*m*- in Germanic and Balto-Slavic, e.g., Old Norse -*ms*; OLith. -*mus*, OPru. -*mans* / -*mas*, OCS -*m*^{*} vs. *-*b*^h- elsewhere (e.g., Skt. -*bhyas*, Lat. -*bos* / -*bus*; Brugmann & Delbrück 1892: II, 708–709) Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

Subgrouping the IE languages V

"The processes of historical change of the inflectional middle" can be placed in this context?

Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

Research questions

- 1. How did the shifts of the inflectional voice system in the Baltic, Slavic, and Germanic languages take place?
 - Do those changes indicate any shared developments among them, or contact-induced developments?
 - What sort of language contacts or branching-out processes could or could not be postulated in those processes?
- 2. Migrational perspective: Are the hypotheses compatible with the migration routes predicted by the genetic evidence?

Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

Migration Routes I

What the analysis of ancient DNA tells us about the migration routes:

- Haak et al. 2015: a support of a hypothesis of a massive migration into Europe from the Eurasian steppes (cf. Anthony 2007: 83ff.); Narasimhan et al. 2019 suggest a more detailed migration routes of the people of Yamnaya-derived ancestry (on the next slide).
- NB: genetic information itself does not tell anything about the language that its carrier spoke.
- But the spread of a language was surely caused by the migration / move of its speakers.

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

Migration Routes II

Introducing Traveling Voices



Figure modified from Narasimhan et al. (2019) based on Fortson (2010: map 1.1, p. 12), Hock & Joseph (2019: 37).

The inflectional middle I

PIE voice system (dual is omitted in this chart)

active		:	medio-passive	
1sg.	*-mi		1sg.	*-h2er
2.	*-si		2.	*-th ₂ er
3.	*-ti		3.	*-or / *-tor
1pl.	*- <i>me</i> -		1pl.	*-med ^h h ₂ -?
2.	*-te-		2.	*-d ^h (u)we-?
3.	*-(é)nti		3.	*-ro(r) / *-ntor

Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

- Medio-passive: the doer is at the same time acted upon or indirectly affected by the action.
 - (1) examples from Sanskrit
 - a. act. 3sg. pres. muñcáti 'releases'
 - b. mid. 2sg. pres. múcyase 'you (sg.) become free'
- ► The voices in IE languages (cf. Luraghi, Inglese & Kölligan 2021: 342ff.)

The inflectional middle II

- Anatolian, Albanian, Indo-Iranian, Greek: retention of Active : Medio-passive system
- Active : Passive in Italo-Celtic and Germanic (Gothic)
 IE inflectional middle
 passive or deponent verbs in Old Irish and Latin (e.g., *morior* 'to die'; cf. Grestenberger 2019) / passive in Gothic.

 ** skip slide
- Latin and Gothic display a tense-based split concerning the encoding of the passive voice (Luraghi, Inglese & Kölligan 2021: 348, 365):
 - inflected middle in the infectum (PIE present and new imperfects), periphrastic passive in the perfectum in Latin
 - inflected middle in the present and in the optative, periphrastic passive elsewhere in Gothic.
- It appeared that the inflectional middle tended to persist in the present tense.
- The inflectional middle was eventually taken over by periphrastic passive and reflexive construction in Italic, Germanic, and Balto-Slavic.

Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

Transformation of inflectional middle I

It is known that the function of the lost middle inflection was taken over by

- periphrastic passive (the verb meaning 'to be' + participle)
- reflexive construction (active inflection + reflexive marker).

This happened not only in Germanic and Balto-Slavic, but also in Italic as well. The replacement processes are documented relatively late:

- ► Italic: Late Latin (3c AD –)
- Germanic: Old Norse (7c AD –), OHG (8c AD –)

In Baltic and Slavic, the processes were completed already when they started to be documented (Baltic: 14c -; Slavic: 9c -).

Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

Transformation of inflectional middle II

What happened to the inflectional system before (or during) this shift happened? Did the middle inflection simply disappear without any trace? Here are some topics to investigate:

- Baltic inflection
 - Isg. OLith. 1sg. *ėmi* 'l eat', OPru. 1sg. *asmai* 'l am', 2sg. *essei* 'you are', cf. the middle endings 1sg. **-ai* (< **-h*₂*e-i* / *-r*), 2sg. **-sai* (← **-th*₂*er*)(cf. Stang 1966: 406).
 - ► The thematic inflection: 1sg. -u < *-ŏ < *-oh₂ ~ mid. *-h₂e (Watkins 1969: 105ff.); Where does 2sg. -i < PB *-ĕ < PBS *-ei come from? (cf. Stang 1966: 407)</p>
- Anticausative nasal presents (the anticausative medio-passives often developed to reflexive verbs, cf. Luraghi, Inglese & Kölligan 2021: 351)

Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

Transformation of inflectional middle III

Nasal present verbs are intransitive / anticausative exclusively in Germanic and Balto-Slavic, while they are usually transitive elsewhere. Gorbachov (2007) and Villanueva Svensson (2011: 43ff.) suggested that the Germanic and Balto-Slavic intransitive nasal presents may have originated from an ancient conjugation type called the h_2e -conjugation or the medio-passive inflection, respectively.

- The Baltic preterit system, a part of which shows diathetic contrast in the stem formations, i.e., intransitive ā-preterit and transitive ē-preterit.
- Relics of the IE middle inflection
 - Majer 2012: the the second part of the Proto-Slavic particle (nom. sg.) *kb-žbdo (cf. OCS kbžido, Old Slovenian dat. sg. comuldo 'every, each') may be a valuable relic of the lost middle 3sg. *žbdor 'is wished, desired'.
 - Vine 1998: 76: OCS *sluti, slovq* 'to be called' from the middle inflection, cf. χλέομαι.

Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

Bibliography I

- Anthony, David W. (2007). The Horse, The Wheel, and Language. How Bronze-Age Riders From the Eurasian Steppes Shaped the Modern World. Princeton, NJ: Princeton University Press.
- Brugmann, K. & B. Delbrück (1892). Grundriss der Vergleichenden Grammatik der indogermanischen Sprachen. Vol. II. Strassburg: Karl J. Trübner.
- Carling, Gerd & Chundra Cathcart (2021). Reconstructing the evolution of Indo-European grammar: Supplementary material. https://muse.jhu.edu/article/810804/pdf.
- Fortson, Benjamin W. IV (2010). *Indo-European language and culture*. 2nd ed. Oxford: Blackwell Publishing.
- Gorbachov, Yaroslav (2007). "Indo-European origins of the nasal inchoative class in Germanic, Baltic and Slavic". PhD thesis. Harvard University.

Introducing Traveling Voices

Yoko Yamazaki

Background Research

Questions

More about the shift of voice system

Bibliography II

Grestenberger, Laura (2019). "Deponency in Morphology". In: Oxford Research Encyclopedia in Linguistics. Oxford University Press. DOI: 10.1093/acrefore/9780199384655.013.553. URL: https: //oxfordre.com/linguistics/view/10.1093/acrefore/ 9780199384655.001.0001/acrefore-9780199384655-e-553.

- Haak, Wolfgang et al. (2015). "Massive migration from the steppe was a source for Indo-European languages in Europe". In: *Nature* 522.7555, 207–211.
- Hock, Hans Henrich & Brian Joseph (2019). Language history, language change, and language relationship. Berlin: De Gruyter Mouton.

Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

Bibliography III

- Luraghi, Silvia, Guglielmo Inglese & Daniel Kölligan (2021). "The passive voice in ancient Indo-European languages: inflection, derivation, periphrastic verb forms". In: *Folia Linguistica* 55.s42-s2, 339–391. DOI: doi:10.1515/flin-2021-2033. URL: https://doi.org/10.1515/flin-2021-2033.
- Majer, Marek (2012). "The Slavic generalizing particle *žīdo". In: The Indo-European verb. Ed. by Craig Melchert. Wiesbaden: Reichert, 225–234.
- Narasimhan, Vagheesh M. et al. (2019). "The formation of human populations in South and Central Asia". In: Science 365.6457. DOI: 10.1126/science.aat7487. URL: https:
 - //science.sciencemag.org/content/365/6457/eaat7487.

Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions More about the shift of voice system

Bibliography IV

- Ringe, Don, Tandy Warnow & Ann Taylor (2002). "Indo-European and Computational Cladistics". In: *Transactions of the Philological Society* 100.1, 59–129. DOI:
 - https://doi.org/10.1111/1467-968X.00091. eprint:
 - https://onlinelibrary.wiley.com/doi/pdf/10.1111/1467-968X.00091.URL:
 - https://onlinelibrary.wiley.com/doi/abs/10.1111/1467-968X.00091.
- Ringe, Donald A (2006). From Proto-Indo-European to Proto-Germanic. Oxford / New York: Oxford University Press.
- Stang, Christian S (1966). Vergleichende Grammatik der baltischen Sprachen. Oslo: Universitetsforlaget.

Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

shift of voice system

Bibliography V

- Villanueva Svensson, Miguel (2011). "Anticausative-inchoative verbs in the northern Indo-European languages.". In: *Historische Sprachforschung* 124, 33–58.
- Vine, Brent (1998). Aeolic ὄρπετον and deverbative *-etó- in Greek and Indo-European. Innsbruck: Institut für Sprachwissenschaft der Universität Innsbruck.
- Watkins, Calvert (1969). *Geschichte der indogermanischen Verbalflexion*. Vol. 1. Indogermanische Grammatik III. Heidelberg: Carl Winter.

Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions More about th

shift of voice system

Introducing Traveling Voices

Yoko Yamazaki

Background

Research Questions

More about the shift of voice system

References

Thank you for your attention.