

Causation with a middle twist: Voice and causative-middle syncretism in Barrier Islands Austronesian and beyond

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Abstract

Proto-Austronesian reconstructions commonly distinguish causative **pa-* from middle/reciprocal **R-* (Kaufman 2009; 2018, among others, and the references therein), yet a number of Western Malayo-Polynesian languages in Indonesia display systematic overlap between causation and non-active “middle” functions. This abstract focuses on the subtype where “middle” is at least reciprocal (and often reflexive/affected-actor): the Actor remains in the argument structure but is also interpreted as affected, via role fusion or controlled overlap. Using fresh fieldwork-based material from Barrier Islands languages (Nias, Sipora Mentawai, Sigulai) together with comparative points from Mandailing-Angkola and Kodhi (Sumba), we offer an argument-structure-based analysis, with LFG-style linking terms, that is straightforwardly translatable into a Chomskyan Voice/VP architecture. We argue that causative-middle syncretism is not accidental but reflects a principled tight interface in (i) predicate composition of valency-changing heads that license role fusion and (ii) voice constraints that encode AV vs non-AV mapping.

Empirically, two patterns can be distinguished. In a transparent pattern, a single reflex of **pa(R)-* overtly marks both reciprocal middles and causatives. Nias is representative: the same prefix *fa-* marks reciprocal middle (1a) and participates in the causative system (*f-/fa-/fe-*), visible in *m-/f-* alternations on dynamic predicates (1b). Kodhi shows an even cleaner alternation, where *pa-* derives causatives from stative/intransitive bases and also derives reciprocal predicates from transitive bases, with a clear object suppression contrast (2). In a less transparent pattern, **pa-* material is historically packaged with actor-voice morphology and/or older **N* material, yielding surface AV exponents such as *maN-/meN-* whose **pa*-component is most visible in non-AV environments and in stacking contexts, as seen in Sipora Mentawai *pa-* ‘RECIP.MID’/*pasi-* ‘NAV.TR’ in (3) (in contrast to *masi-* ‘AV.TR’ (not exemplified due to space); cf. Kaufman (2018) on layered causatives and **pa/R/N* interactions).

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| <p>1 a. Nias: reciprocal middle <i>fa-</i> <i>Fa-bözi ira</i> MID-hit 3PL.MUT ‘They hit each other/one another.’</p> | <p>b. Nias: <i>m-/f-</i> (MID/CAUS) alternations (Brown 2001:233) <i>m-aoso</i> ‘get up, wake up’ <i>f-aoso</i> ‘raise’ <i>m-e’e</i> ‘cry’ <i>f-e’e</i> ‘make cry’ <i>m-e’e</i> ‘cry’ <i>f-e’e</i> ‘make cry’</p> | | | | | | | | | | | | | | | | |
| <p>2 Kodhi: non-reciprocal vs reciprocal (object suppression) (Ganggho Ate, in progress)</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">a. Atobhokoya</td> <td style="width: 10%; text-align: center;"><i>a</i></td> <td style="width: 33%;">Komi</td> <td style="width: 24%;">b. Apatobhoko</td> </tr> <tr> <td>a=tobhoko=ya</td> <td style="text-align: center;"><i>a</i></td> <td>Komi</td> <td>a=pa-tobhoko</td> </tr> <tr> <td>3PL.NOM=meet=3SG.ACC</td> <td style="text-align: center;">DEF.SG</td> <td>Komi</td> <td>3PL.NOM=RECIP-meet</td> </tr> <tr> <td colspan="2">‘They met the Komi.’ [KOD19-MH Maghu Rumba]</td> <td colspan="2">‘They meet each other.’</td> </tr> </table> | | a. Atobhokoya | <i>a</i> | Komi | b. Apatobhoko | a=tobhoko=ya | <i>a</i> | Komi | a=pa-tobhoko | 3PL.NOM=meet=3SG.ACC | DEF.SG | Komi | 3PL.NOM=RECIP-meet | ‘They met the Komi.’ [KOD19-MH Maghu Rumba] | | ‘They meet each other.’ | |
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| ‘They met the Komi.’ [KOD19-MH Maghu Rumba] | | ‘They meet each other.’ | | | | | | | | | | | | | | | |
| <p>3 a. Sipora Mentawai: reciprocal middle <i>pa-</i> <i>pa-lakkai sia</i> RECIP-hug 3PL ‘They hug each other.’ (Arka 2024)</p> | | <p>b. Sipora Mentawai: NAV transitiviser (Keith and Arka 2025) Nera sikkoinan [si=pasi-matei-ake’ simanteu] That crocodile REL=TR-dead-CAUS male ‘That’s the crocodile that killed the man.’</p> | | | | | | | | | | | | | | | |

The Barrier Islands data also underscore the importance of Voice. In Sigulai, reciprocal-middle marking is expressed by a distinct morpheme (*be-/fe-*, including complex forms), while causation is expressed by *pe-*, and *pe-* clearly stacks under AV vs non-AV (4). In Mandailing, middle verbalization appears as *mar-/par-/mars-* (5), while AV is expressed by *maN-*, and the broader system exhibits the *m/p* alternations and layering that are expected if older **pa-* material has undergone phonological fusion and reanalysis. Across these systems, a robust generalization emerges: voice morphology (AV vs NAV) is “higher” than or “applied after” causativization, which helps explain (i) why Indonesian-type non-AV markers (*di-*, *ni-*) themselves do not become productive causativizers, even when causatives can appear in non-AV clauses, and (ii) MID-CAUS syncretism is retained when AN voice morphology has been completely lost as in Kodhi.

In our analysis, we propose that the syncretism targets a specific causative type, a “fused causative” head (CAUSE_fused) that licenses role fusion (or controlled overlap) between Actor/Initiator and Undergoer roles, informally represented in (6a). Where CAUSE_fused is realized by a **pa*-reflex, reciprocal and reflexive middles are derived without deleting the Actor: the same participant (index *i*) can act as initiator and affected participant, or a plural subject can be interpreted as mutual co-actors/co-undergoers, yielding a detransitivising effect, e.g., the observed object suppression in Kodhi (2b), and a reciprocal reading as in Nias (1). In contrast, disjoint causatives (CAUSE_disjoint) (6b), such as Indonesian *-kan*-type causation, enforce A≠U (a distinct causee/undergoer) and

therefore resist reciprocal-middle interpretations; this predicts the asymmetry that the Indonesian *-kan*-type causation *-kan* does not participate in causative–reciprocal middle syncretism.

4 Sigulai: causative *pe-* under Voice (AV vs NAV)

- a. Udu ma-pe-eba / ma-pe-onoono naite nen.
1SG AV-CAUS-big AV-CAUS-small.REDUP fire that
'I enlarged / reduced the fire.'
- b. Naite nen ni-pe eba / ni-pe ono-ono (si) Joni.
fire that PASS-CAUS big / PASS-CAUS small.REDUP (ART) Joni
'The fire was enlarged / reduced by Joni.'

5 Mandailing: AV 'teach' vs MID 'learn'

- a. guru on mang-ajar danak i
teacher DEM.PROX AV-teach child DEM.DIST
'This teacher is teaching that kid Mandailing language.'
- b. marsi-ajar bahasa mandeling danak i
marsi-teach language PN child DEM.DIST
'That kid is learning Mandailing language.'

- 6 a. "CAUSE_fused < __ i, (__ i/j), 'STEM.PRED <..., __, ... > >
(A) (U) A/U
- b. "CAUSE_disjoint < __ i, __ j, 'STEM.PRED ' <..., __, ... > >
(A) (U) A/U

In LFG-style linking terms, the contrast can be expressed as a constraint on argument-structure mapping: CAUSE_fused permits identity between A and U indices (or a structured set-valued relation for reciprocity), whereas CAUSE_disjoint prohibits it; Voice constraints then map the fused configuration to grammatical functions under AV vs non-AV. We propose general principles argument fusion in complex predicate formation: arguments of the matrix CAUSE and embedded STEM.PREDs of thematically similar types tend to fuse (Austin 2005 [1996]; Arka et al. 2009), and A=U co-identity (with/out reciprocal meaning) is also constrained by, among other things, arguments' sentience/animacy and stem's lexical semantics. Thus, for stems such as Indonesian *susah* 'difficult, in trouble' that allow both sentient and non-sentient participants, we have the expected (opaque) CAUS-MID syncretism, with *per-/ber-* alternation: *per-susah* 'make X hard' / *ber-susah-susah*, *bersusah-payah*. This is not possible, however, for its near-synonym *sukar* 'difficult': *persukar* / **bersukar* (-*sukar* / *payah*). In a minimalist translation, CAUSE_fused is a low v/valency head with an underspecified [\pm disjoint] parameter (or theta-identification option), while Voice is higher and independently encodes AV vs NAV. This layered architecture also captures why **pa-* can drift toward middle/reciprocal in some branches while still composing with voice.

Finally, the same family of exponents appears to have broader diachronic potential. Old Balinese lexicographic evidence suggests *pi(R)-* in passive-like meanings (e.g. *pi-rumah-in* 'be occupied', *pi-suruh-ang* 'be ordered by'), raising the possibility that a fuller paper should track a three-way arena CAUS–MID–PASS for **pa* / **R* material across time. The AFLA talk will focus on the micro-typology of CAUS–(RECIP.)MID syncretism (transparent vs opaque), diagnostics from voice stacking and object suppression, and a minimal argument-structure account that connects syncretism to the (un)availability of role fusion under different causative heads.

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