**Chapter 40. Kinship semantics in Papuan languages**

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**1. Introduction**

Kinship terminology lies at the crossroads of language and culture, and has been extensively studied both by linguists and by anthropologists, with the result that we have a relatively large set of data to draw on – over 100 Papuan systems – compared to most other linguistic domains treated in this book. Kinship terminology is typically also the most recursive and systematically structured part of a language’s vocabulary, exhibiting a number of cross-cutting semantic features, such as generation, sex of referent, consanguineal vs affinal kin, lineal vs collateral relatives. The juridically reckoned nature of kinship in many societies results in the transmission of genealogies going back many generations, so that in principle someone like your father’s father’s father’s father’s brother’s son’s son’s son’s son is your kin. The recursiveness of such reckoning generates a potentially infinite number of *kin types* (logically distinguishable points in the genealogy) running to the thousands once we get out to e.g. great-great-great-great-great-grandparents and seventh cousins. No language in the world has distinct *kin terms* for all *kin types*. Thus ‘mother’s mother’ (MM) and ‘father’s mother’ (FM) are distinct *kin types*, but a single English *kin term* lumps them together: *grandmother*. Likewise, the kin types ‘mother’s sister’ (MZ) and ‘father’s sister’ (FZ) are grouped together under the kin term *aunt*. The lumping of multiple kin types under a single kin term are generally known as *equivalences* or *syncretisms*; we will generally use the latter term here. Much of the typological variation between kinship system can be understood in terms of different patternings of syncretism. Usually syncretisms are treated as absolute – i.e. there is a binary opposition between terms being identical (*aunt* ‘MZ’ = *aunt* ‘FZ’) or different, regardless of whether the difference is total (Russian *otec* ‘F’, *djadja* ‘FB, MB’) or partial (Spanish *hermano* ‘brother’, *hermana* ‘sister’).[[1]](#footnote-2)

Systems of kinship terminology are coupled with other aspects of social structure, though how tightly is a matter for debate. The three most important of these are:

(a) *marriage rules*. For example in a system where you marry your ‘cross-cousin’ (e.g. your father’s sister’s child)[[2]](#footnote-3) then your paternal aunt is also your mother-in-law, often resulting in terminological equivalence (FZ=WM[[3]](#footnote-4)); likewise it is common for systems favouring cross-cousin marriage to lump parallel cousins (e.g. FBC, non-marriageable) as siblings (e.g. FBD=Z, female parallel cousin called ‘sister’), stressing their non-marriageability, while employing a distinct term for cross-cousins (e.g. FZC), who are typically marriageable. In §2.1 we will see an interesting case of a particular marriage-rule – symmetric sister-exchange – correlating with a set of kinship terms, used only by the children born to such exchanges, for the special types of cousins and nuncles[[4]](#footnote-5) this marriage-rule produces.

(b) *descent/filiation rules* determining who belongs to such key social units as clans. In matrifiliative clan systems, for example, syncretisms are commonly found between father and father’s sister’s son – both males belonging to the father’s matrilineage, whose membership he cannot transmit himself, but which is transmitted through his sister to her children. This particular syncretism is generally called a Crow skewingule by anthropologists of kinship. Skewing rules of this type tend to correlate with the logic of clan filiation: matriclan systems correlate with Crow skewing rules, and patriclan systems with so-called Omaha skewing rules in which MBC=MB: both share the same patriclan (see Nen example in §2.1).

(c) *residence rules* regarding whether a couple live with the man’s or the woman’s clan/household after marriage. These rules often impact on where elaboration is found in the kinship system. Co-residents know more about each other’s genealogies and are bound by stricter interactional norms.

(a)-(c) have long made kinship an area of language used for arguments about social structure, current or reconstructed, though the arguments rest on the potentially controversial assumption that the relationship of vocabulary to society is tightly coupled.

Aside from their anthropological import, kinship terms display many special linguistic features (Dahl & Koptjevskaja-Tamm 2001). As two-place predicates (logically one cannot *be a father* without *being a father to someone*) they are realised as transitive verbs in many languages (Evans 2000), although this phenomenon does not appear in any Papuan language to our knowledge. However, another manifestation of their logical status as two-place predicates is that in many languages kin terms are obligatorily possessed, thereby ensuring that both arguments the possessor and the referent of the expression are required. As a result, kinship terms often have special possessive morphology, and it is not uncommon for this to result in suppletion according to the person of the possessor (Baerman 2014), e.g. Kaluli *na:la:* ‘my daughter’, *ga:la:* ‘your daughter’ versus *ida:* ‘her/his daughter’ (Grosh & Grosh 2004).

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The frequency with which humans are referred to using kinship terms in many societies has led to the grammaticalisation of various specialised structures, such as kinship dyad terms for referring to pairs of kin, e.g. father and son, mother and daughter – see Ch. RECIP, §5). There are also a few languages with special pronouns reflecting specific kinship relationships. Consider these Nagovisi pronouns (Nash 1974:48), which encode the kinship relations between members of the group: *nɛ* ‘we’, *nɛnabora* ‘we [FZ/BC; HM/SW]’, *nɛnamisira* ‘we[BW/HZ]’, *nii* ‘we [WM/DH]’, *ninga* ‘we [relationship uncertain, strangers], or these pronouns from Menya (Whitehead 2004): *yä-mät-qiye* ‘we two [F/S], *qe-mät-aŋgi* ‘you two [F/S]’; in each case these are just some forms from a large paradigmatic set. Significantly, in Nagovisi the dyads encoded in these pronouns dictate behavioural norms, e.g. friendly, informal relationship between mother’s brother and sister’s daughter, joint economic pursuits between sisters, or restraint in regard to sexual matters between brothers and sisters. These dyad-based pronouns thus evoke particular normative behaviours within the named pair, in addition to simply designating kin relationships, in line with Strathern’s (1988) influential notion of Melanesian personhood as ‘partible’, composed out of a number of ‘dividuals’, each reflecting particular patterns of relationship.

There tends to be a relationship between individual syncretisms (e.g. using the same term for father and his brother) on the one hand, and, on the other, whole kinship systems which link multiple syncretisms in a sort of ‘harmonic logic’ by reuses a small set of principles across the whole system. For example, syncretisms at the parent/nuncle level (e.g. treating parents and their same-sex siblings as equivalent but distinguish them from parents’ opposite-sex siblings) correlate with syncretisms at the sibling/cousin level (e.g. treating parallel cousins as equivalent to siblings, but different from cross-cousins). The belief that most kinship systems exhibit tight couplings between different parts of their systems lies behind the ‘holistic typologies’ of kinship systems, employed by the great kinship theorists from Morgan (1871) in the C19 to Kroeber (1909), Lowie (1928), Murdock (1949) and others in the twentieth century.

Whether things always correlate so smoothly is an open, empirical question (Passmore et al. 2021). In this chapter we adopt a more agnostic method that treats each possible syncretism – between any two or more kin types – as a logically independent variable, even though in practice clusters of syncretisms tend to co-vary. We draw our data from the Kinbank database (www.kinbank.net), which assembles data on syncretistic patterning in kinship systems for over a thousand languages from around the world, including 112 Papuan languages.

We divide the rest of this chapter into two parts, one focussing on depth and the other on breadth: §2, focusses on systems and their internal logic through four ‘kinship snapshots’, each aiming to illustrate the workings of the overall system in a particular language. In §3 we pull out a subset of common and distinctive Papuan syncretisms and examine these across a much broader sample. Finally in §4 we close with some questions for future research.

**2. Four system cameos**

**2.1 Watam**

Watam is a language of the Ramu-Lower Sepik family (Foley 1997). The Watam kinship system includes terms stretching over nine generations. The most distant two pairs of generations (±4, ±3) have self-reciprocal terms: *bijir* applies equally to great-great-grandparents and great-great-grandchildren, while *ŋgamar* applies equally to great-grandparents and great-grandchildren. The generations closer to ego (+2/-2) are no longer self-reciprocal: all grandparents are *nenkai* and all grandchildren are *rumbun*.

The +1 generation makes four distinctions. Father and all his male blood relatives of that generation are grouped together as *aes* and *aem* groups mother and all her female blood relatives of that generation. Then there is a term for father’s sister (*namkwae*) and one for mother’s brother (*akwae*). This is typical of ‘bifurcate merging’ or ‘Iroquoian’ systems. Typologies of kinship, as mentioned above, generally presupposed a logical consistency or harmony between how terms pattern in different generations. In canonical bifurcate-merging systems, for example, which treat ‘cross-uncle’ (MB) and ‘cross-aunt’ (FZ) differently from ‘parallel uncle’ (FB) and ‘parallel aunt’ (MZ), who are grouped with one’s parents, there is an assumed correlation in ego’s generation whereby parallel cousins would be grouped with siblings (e.g. FBS=B) but cross-cousins would be given distinct terms (e.g. MBS≠B). In Watam, however, this is not the case: there is no differentiation between siblings and cousins on either side of the family. Rather, everybody in this generation is called *yakai* ‘elder same sex sib’, *yap* ‘younger same sex sib’, *mbi* ‘mZ’, or *ondaŋ* ‘fB’. This pattern is characteristic of a ‘Hawaiian’ system which canonically merges parents, uncles and aunts in the +1 generation and siblings and cousins in ego’s generation. Classic typologies would thus have to say Watam splits between an ‘Iroquoian’-type system in the +1 generation and a ‘Hawaiian’ system in the 0 generation.[[5]](#footnote-6)

One generation below ego, speakers of Watam differentiate son (*iniŋ*) and daughter (*namoŋ*). The children of ego’s siblings are referred to in the same way. However, there is one exception in that a man calls his sister’s children *amuk* and in return they call him *akwae*.

As for affines, a man calls his wife *mot* while she calls him *kaŋgat*. The parents of the spouse are called by the term for parents, *aes* if male, *aem* if female. and likewise children-in-law are called like one’s own children, *iniŋ* if male and *namoŋ* if female. In the speakers’ own generation, all in-laws are referred to either as *wandikdamot* (if male) or *wadikmbain* (if female).

**2.2 Ekagi**

Ekari (also known as Ekagi, Mee or Kapauku) is a Paniai Lakes (TNG) language of the West Papuan highlands.[[6]](#footnote-7) Note that Pospisil’s glosses of kin terms are often in conflict with those given in Steltenpool’s (1969) dictionary, a source that is disregarded here. The kin terms are cited here in their 1st person forms, which depending on the lexeme either take preposed 1sg pronoun *ani*, or prefix *n-*. The Ekari kinship terminology showcases several common themes in kinship systems from across the world (such as the Iroquois cousin system) with a few interesting wrinkles. As in Watam, it has self-reciprocal terms for great-grandkin (*ani aija*) and great-great-grandkin (*ani pigoka*), extending this to grandkin as well (*ani muuma*); these also apply to other kin in those generations (e.g. great-uncles or great-nephews would be *ani aija* like grandparents). Ekari also emphasises birth order, sorted by mother in polygynous relationships, and order of marriage among co-wives.

Starting with ego’s siblings, we find a distinction between same- and opposite-sex siblings (with *paneka* denoting the latter, i.e. fB and mZ), with a distinction of relative age added among the same-sex siblings (*nauwa* ‘meB’, *anibai* ‘feZ’ and *ani weneka* ‘myB, fyZ’, i.e. ‘younger same-sex sibling’). Having a relative age distinction that is limited to same-sex siblings is a common typological pattern, and it is also found in Watam (see above). When it comes to cousins, it is a sort of split between an Iroquoian system with regard to cross-cousins (*noone*), and paternal parallel cousins (B=FBS=MZS≠MBC), but a Sudanese system with regard to maternal parallel cousins (MZS≠B); the maternal parallel cousins (i.e. one’s mother’s sister’s children) are covered by a separate term for MZC *ani ijoka* (without distinction of sex or relative age). The relative age distinctions made in sibling terms are carried across into paternal parallel cousins, e.g. *nauwa* ‘meB’ also denotes meFBS, and so on.

Moving up to the +1 generation, we find the parent terms *niikai* M and *naitai* F. The morphologically related terms *niika* and *naita* (dropping the final *-i*, of unclear status) express MZ and FB respectively, and extend to any consanguineal relative of the parents’ generation. Thus *niika* also refers to M’s female cousins (MMZD, MMBD etc.), while *ani ooka* is FZ and *naama* is MB. If we take a simple same vs different approach to syncretism, this is a Sudanese system in the +1 generation (distinguishing all three kinds of male kin, and all three kinds of female kin), while if we take a more gradient measure it comes very close to being a bifurcate-merging system, very common in Papuan languages (and the rest of the world).

The cross-nuncle terms are self-reciprocal with the corresponding niblings. Thus, I (male or female) refer to my father’s sister as *ani ooka*, and she calls me the same. I refer to my mother’s brother as *naama*, and he uses the same term in return. In the rest of the –1 generation, a general term *ani joka* ‘my child’ exists alongside two sets of birth-order terms: *ibo* ‘first-born son’, *ipouga* ‘2nd son’, etc., and *oumau* ‘1st daughter’, *maga* ‘2nd daughter’ etc. The birth-order terms are reckoned in reference to children born to the same mother, so a man can have as many *ibo* etc. as he has wives. Birth order also appears, optionally, in grandchild terms: in addition to the self-reciprocal grandkin terms mentioned above, terms for grandchildren can be formed by adding *-pa* to the birth-order terms (e.g. *ibopa* ‘child of first-born son’).

Among the affinal terms, we find the generic *ani* *waka* ‘my spouse’, complemented by marriage-order terms for the wives in a polygynous marriage (*epame* ‘1st wife’, *jupikaame* ‘2nd wife’ etc.). Staying in the 0-level generation, the term (*ani*) *geeto* is used for the spouse of a consanguineal relative of one’s spouse, e.g. WBW, HZH. Two self-reciprocal terms are used between the spouse of an uncle or aunt and the child of a spouse’s sibling: *ani wape* ‘FZH, MZH; WZC, WBC’ and *naamai* ‘FBW, MBW; HBC, HZC’. (Note that *naamai* and the self-reciprocal *naama* ‘MB; ZC’appear to show the same formal relationship as the parent and MZ/FB terms, differing only in the final /-i/.) These terms extend collaterally, so that e.g. *ani wape* also refers to FFBDH or FFZDH, i.e. to one’s father’s cousin’s husband, and so on.

Rather strikingly, the remainder of the affinal kin space is populated by only two terms, *ani geeka* and *ani baaka*, which makes the Ekari affinal system one of the least complex affine terminologies in our database. The first term, *ani geeka*, is used for referring to one’s opposite-sex sibling-in-law, i.e. for ego’s spouse’s same-sex sibling (HB, WZ), the spouses of ego’s same-sex siblings (fZH, mBW), and, more generally, to the spouses of any same-generation, same-sex consanguineal relative (e.g. fFBDH). All other in-laws are covered by the term *ani* *baaka*, which includes in its rather disparate membership set: (a) same-sex siblings-in-law (mZH, fBW), and more generally, same-generation same-sex in-laws (e.g. mFBDH); (b) off-generation in-laws, i.e. in-laws in ascending or descending generations, e.g. WF, WM, HM, WMB, HFFBS, etc.; and (c) the spouses of off-generation in-laws, e.g. WMBW, WBDH, etc. The logic behind this bipartition of the affinal space, as presented in Pospisil’s (1980) analysis, is that *ani geeka* is a marriageable in-law, whereas *ani baaka* denotes the non-marriageable in-laws. Accordingly, the preferred choice for a second wife would be either a sister of the first wife (in a sororate marriage) or a deceased brother’s wife (in a levirate marriage), both of which are referred to as *ani geeka*.

**2.3 Nagovisi**

Southern Bougainville, where Nagovisi is spoken (cf Ch. XX), is renowned as an area of entrenched matriliny, in contrast to the generally patrilineal organisation of most Papuan groups. Dravidian systems, which prescribe marriage with one’s cross-cousin (MBD, FZD, from a male viewpoint), are rare in Papuan languages, to the extent that Scheffler (1971:) claimed there were no reliable reports of Dravidian systems in New Guinea, but in actual fact all four languages of the South Bougainville family (Nasioi, Nagovisi, Siuai and Buin) have Dravidian systems (Hage 2006; Thurnwald 1910, Rivers 1914, Oliver 1955, Rausch 1912), and in this respect resemble the majority of languages in Australia but differ markedly from other Papuan languages. Although the terms for husband and wife are distinct from the cross-cousin terms, the Dravidian nature of these systems is shown by the syncretism of MB=HF (*papa* in Nagovisi) and FZ=WM (*kabo*) since, under cross-cousin marriage, these are potentially the same person in each case.

Traditional Nagovisi social organisation (Nash 1971, 1974) involves a number of nested groupings at different levels, all matrilineal: matrimoieties (*manka* ‘eagle’ vs *komo* ‘hornbill’), matriclans, and (as clan subdivisions) matrilineages. For each of these, membership is inherited from one’s mother. There are also various other terms for matrilineal groupings: *madawo* ‘matrilineal kin (indefinite range), *malo/matalo* ‘father’s matrilineal kin’, *maniku* ‘wives and daughters of a descent group’, *nuga* ‘male matrilineal kin of wives and daughters’, and *motai* ‘husbands and fathers of a descent group, i.e. men who have married in’.

Note that the logic of exogamy – marrying outside one’s moiety – dictates that you and both your parallel grandparents are in the same moiety. For MM this is simply through descent. But for FF, if e.g. you and your mother are ‘eagle’ matrimoiety, your mother must have married a ‘hornbill’ man’; his mother must therefore have been ‘hornbill’, and therefore must have married an ‘eagle’ man, your FF. This pattern creates a ‘two-generation return’ to each moiety. Similar logic places your two ‘cross grandparents’ – MF and FM – in the opposite moiety to you.

The first striking property of Nagovisi kin terms is that, again like many Australian systems, it displays a patterning that conflates kin two generations apart in the same direction, as long as they are in the same moiety. Thus *ngo* is not just M, MZ, and FBW – women in your own moiety, one generation up – but also MMM and FFM – women in your own moiety, three generations up. Similarly *mma* is not just F, FB and MZH – your father and other men one generation up from you, in his moiety – but also FFF and MMF – men in your father’s moiety, three generations up from you.

Similar logic applies to your cross-nuncles: *papa* is not just your MB and FZH (i.e. men in your mother’s moiety, one generation up) but also your FMF and MFF (also men in your mother’s moiety, but now three generations up), and *kabo* is not just your FZ and MBW (women in your father’s moiety, one generation up) but also your FMM and MFM (i.e. women in your father’s moiety, three generations up).

Turning from odd-generation to even-generation kin, the grandkin terms have some interesting properties, related to the conflation of kin two generations apart that we have just seen. The only grandparent term confined to its own generation is MM (as befits a matrilineal system); this extends to FFZ, who is also a +2 generation female in your matrimoiety. All the other grandparent terms conflate with older siblings or siblings-in-law in ego’s generation: FF=eB, FM=eZ,[[7]](#footnote-8) and MF=HeB. On the other hand, younger siblings in one’s own generation share terms with relatives in the –2 generation: *inalaman* yB, FByS, MZyS also means SS, *inalamanda* yZ, FByC, MZyD also means SD, and *inobe* WyZ also means DS and DD.

As can be seen from the foregoing, there are four sib terms, following the world’s commonest sib term pattern in distinguishing eB, eZ, yB and yZ. However, once one talks of classificatory rather than actual siblings, the pattern of sibling terminology changes, and there is a term *imari* ‘opposite-sex classificatory sibling or cross-cousin’.

These examples show what appears to be an unshakeable consistency in the Nagovisi kinship system, organised around matrimoieties as the boundaries of semantic extension, and regular groupings-together across even-numbered generations. However, we should bear in mind Sapir’s (1921:39) famous dictum: ‘Unfortunately, or luckily, no language is tyrannically consistent.’ The chink in the Nagovisi system involves sibling-in-laws. *Mama* is not just eZ (same moiety) but also WeZ (opposite moiety), *tata* not just eB (same moiety) but also HeB (opposite moiety), and *inalaman* not just yB (same moiety) but also HyB (opposite moiety). Generalisation: sibling terms can be extended to one’s sibling-in-laws, notwithstanding their opposite-moiety status. A possible hypothesis is that this is an effect confined to address terms, where consanguineal terms are often hospitably extended to relevant affines (e.g. addressing one’s mother-in-law as ‘mother’ in many cultures). More work is needed on the pragmatics of kin term use in Nagovisi to determine whether this, or some other factor, lies behind the discrepancy.

**2.4 Nen and Komnzo**

Nen (Evans 2019) and Komnzo (Döhler 2018) of the Morehead district, Southern New Guinea, belong to different branches of the Yam family – the Nambu and Tonda branches respectively. They will be taken together here because they exhibit so many similarities, including many cognate forms and parallel semantic structures, but also because they show how multiple languages can be linked together in a regional system of intermarriage which tends to reinforce structural similarities. In the case of the Morehead district the most salient regional features are (a) marriage by direct exchange of sisters across patrilineal clans, so that each woman marries the brother of the other, (b) the existence of three ‘moieties’ which aggregate the dozens of clans in the region into three higher-level groupings for purposes of marriage and alliance, and (c) the absorption of women into their husband’s clan upon marriage (see Ayres 1983 and Williams 1936 for classic ethnographies). There is a strong patrilineal bias: knowledgeable Nen men can recite clan genealogies back nine patrifiliative generations,[[8]](#footnote-9) whereas often people do not know the clan of their mother’s mother since there is no independent practice of talking about matrilineal descent. Beyond two generations no specialised kin terms are found.

In both languages siblings are primarily organised by relative age (Nen *ani*, Komnzo *nane* ‘elder sib’; Nen *nəŋgən*, Komnzo *nəŋgəθ* ‘younger sib’). Children are simply referred to as ‘(X’s) child’, e.g. Nen *tande toge* ‘my child (son or daughter)’. There is a single term for grandkin of all types (Nen *kake*, Komnzo *zaθ*, or the Nama loan *aki*) which takes in FF, FM, MF, MM and CC). The grandkin terms can be reduplicated to denote more distant relatives in either direction – Nen *kakekake* can mean either ‘ancestors’ or ‘descendants’.

It is in the terms for the parents’ generation, for cousins, and for affines (in-laws) that the more unusual features of these languages appear. The terms for fathers and mothers can be extended out to their same-sex siblings (FB and MZ), optionally modified by an adjective like ‘big’ or ‘little’. Thus Nen *dede* and Komnzo *ŋafe* span both F and FB (but FyB in K could be, more precisely, *ŋafe katan* ‘little father, FyB’), and Nen *ama* and Komnzo *ŋame* can include both M and MZ, again optionally modified e.g. *ŋame katan* ‘little mother, MyZ’.

Working out to the remaining uncles and aunts, who are all cross-kin[[9]](#footnote-10), we encounter specialised terms, and these in turn differentiate according to whether one can trace the relationship just through one parent, the ‘general’ situation, or whether one can trace the relationship through both parents as a result of sister-exchange in the parents’ generation being involved. Thus for MB we have Nen *baba* (general) or *mitarbe* (in the case of a consummated sister exchange, such that my MB is also my FZH) and in Komnzo *ŋäwi/babai* (general) or *fäŋafe* (if a consummated sister exchange). For FZ we have N *babale* (general) or *mitadma* (if a consummated sister exchange) and K *babai* (general) or *fäŋäme* (if a consummated sister exchange).[[10]](#footnote-11) Komnzo has *fäŋame* for FZ (after exchange), not *fäŋafe*. It is probably a contraction of *fäms ŋafe* "exchange father" and *fäms ŋame* "exchange mother". Both of these are also somewhat archaic and most people use *bäiŋaf* and *bäiŋam* (which are the words found in Wära, next door). These terms are all self-reciprocal, so that *baba* or *ŋäwi*, for example, mean either ‘FZ’ or ‘ZC’, i.e. niece through (a man’s) sister.

We show the logic of these kin terms, and others arising through consummated sister-exchange in Figure 1 showing part of the Komnzo system (Döhler 2018:31).

Diagram

Description automatically generated

Fig. 1. Illustration of how sister exchange in the parents’ generation from the point of view of a Komnzo child (dark square) whose parents married as a result of direct sister exchange. This traces alternate paths of relatedness to those in the parents’ generation. *Fäŋafe* can be traced as my mother’s brother (red path) or as my father’s sister’s husband (blue path), and *fäŋame* as my father’s sister or as my my mother’s brother’s wife. *Yamit* (N equivalent *miti*) is used between the cousins born of such a symmetrical exchange – ‘double cross-cousins’ – because there are two possible paths (e.g. MBC or FZC) that could be used to trace the cross-cousin relationship Lines connected above the positions indicate siblings; those below indicate marriage.

This brings us to the other cousins. As with Ekagi (§2.2), the Nen and Komnzo system doesn’t fit neatly into any of the classic four typologies, each of which assume symmetry of treatment on the two sides of one’s parents’ generation. It will help understand the logic of why Nen and Komnzo deviate from these systems if you bear in mind that the main determinant of how cousin terms work is how the intersection of descent and marriage rules impact upon clan membership.

Thus father’s brother’s children (patrilateral parallel cousins) are known by the relevant sibling terms, since they are in the same clan as you, because your father and his brother are in the same clan and each transmits this to his children.

But your mother’s sister’s children are NOT called siblings, since (normally) your mother and her sister would marry men from different clans, so their children would likewise belong to different clans. Rather, in Nen this sort of cousin calls each other by terms whose basic meaning is ‘wife’s sister’s husband’, i.e. it is primarily a term used between two men who draw their wives from the same clan. This usage is then passed on to the next generation, so that this sort of cousin calls each other by the affinal term that would be used between their fathers, regardless of the fact that it is actually their mothers who are most closely related: in N the term is *nako* or *yakali* (though *nako* may be a loanword from Suki). In Komnzo there is a slight formal distinction between the brother-in-law and cousin terms: the cousins’ fathers would call each other *nakum* (mWZH) while the term *naku* is between the cousins who are children of these men.

In both Nen and Komnzo, the children of your MB – if he has not married your FZ, creating the situation for the special double-cross cousin terms described above – are simply known by the same name as him, Nen *baba* and Komnzo *babai*, so that MBC=MB (i.e. ‘Omaha skewing’). Again we see the operation of clan-tracking logic: your relation to this type of cousin is centred on your relationship to the clan relationship which his father (your MB) puts you in, namely your mother’s birth clan.

Summarising the logic of cousin terminology: your FBC, in the same clan as you, are treated as your siblings; your MZC get called by the term your F calls his WZH, reproducing the affinal relationship between clans at the level of your F; your MBC is equated to your MB, which is the clan your M was born into. And, just in the case of your cousins born through a consummated sister exchange, there are special terms, symbolising the fact that this binuclear family sets up a special link between the two clans.

It will already be clear that affinal (marriage) relationships play a key part in the system – no surprise, given the general importance of growing ‘ropes’ (wider relationships) and using them to build alliances in Melanesian societies. We have already mentioned the important cluster of terms focussed on the relationship between men married to sisters – *nakum* in Komnzo, *nako* or *yakali* in Nen, with *nako* then extended down in Nen to the relation between their children, whereas in Komnzo there is a distinct though formally related term *naku* for the latter. Both the *naku* and the *yakali* etymological sets are widespread across southern New Guinea, including outside the Yam family. While we have yet to untangle the whole etymological web, it seems likely that this reflects a pattern of borrowing linked to exogamous, bilingual marriage. Beyond this term (and the special double cross-cousin terms, which are simultaneously consanguineal and affinal depending on the path traced), key affinal terms are: Nen *kamat[[11]](#footnote-12)*, Komnzo *ngom* WB (if they are not married to each other’s sisters); Nen *tampre*, Komnzo *fäms* ‘brother-in-law through consummated sister-exchange; WB=ZH’, Nen *tanat*, Komnzo *enat* ‘parent-in-law/son-in-law’, and, in Nen, *yézeg* ‘co-wife, HW’.

A final indication of the importance of sister exchange in the kinship comes from contextual shifts in the meanings of the Nen words *sakr* or *är sakr* ‘boy’ and *mleg* ‘girl’. We mentioned above that Nen and Komnzo sib terms are organised on an ‘older sibling’ vs ‘younger sibling’ principle, regardless of sex. But to specify sex, a woman may refer to her brother as *tande är sakr* (‘my boy’) and a man may refer to his sister as *tande mleg* (‘my girl’). However, these are not simply gender-specified sibling terms in the English style, since if a parent uses them, in which case tande är sakr means ‘my son’ and tande mleg means ‘my daughter’. The key to understanding this usage is that the constant is ‘my boy/girl who will be used as a male/female exchange partner, in marriage’. This example illustrates one of the methodological problems in comparing data across languages, since whether to include these terms as alternative sib terms (♂︎Z, ♀︎B) or as a vaguer contextual extension, as argued for here, impacts on the type of sibling system Nen would be claimed to have.

**2.5. Comparison across the sample systems**

This sample represents just 5 of the 800+ kinship Papuan systems, though it was constructed to sample as widely as possible, both geographically (north, west, east, south) and genetically (four distinct families, with two from a single family and region as a control). It shows that, in kinship as in so many other respects, Papuan languages show extraordinary diversity. Some of the more important features discussed above are summarised in Table 1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Language | Watam | Ekagi | Nagovisi | Nen & Komnzo |
| Family; Region | Ramu-Lower Sepik; Sepik | TNG; Paniai Lakes, West Papuan highlands | Bougainville Island; South Bougainville family | Yam, Trans-Fly region |
| Patterning in +1 generation | Iroquoian | Sudanese | Iroquoian  (Dravidian) | Iroquoian |
| Sib/cousin patterning in 0 generation | Hawaiian | Split: Iroquoian on paternal side, Sudanese on maternal side | Iroquoian | Split: Iroquoian on paternal side, Sudanese on maternal side, special term for cousins resulting from symmetrical direct sister exchange |
| Consistency across +1 and 0 generations | No | No | Yes | No |
| Sibling dimensions | 4-way: mZ, fB, elder vs younger same-sex sib | 4-way: opposite-sex sib, meB, feZ, younger same-sex sib | 4-way: gender of ref x relative age | Basic older vs younger sib distinction, with secondary possibility of male-referent vs female-referent distinction |
| Patrilineal vs matrilineal social organisation | Unclear | Patrilineal | Matrilineal | Patrilineal |
| Grandkin | Not self-reciprocal; maternal and paternal subtypes not distinguished | Self-reciprocal; maternal and paternal subtypes not distinguished | Paternal grandparents = older siblings; maternal grandparents = older sib-in-laws | Self-reciprocal; maternal and paternal subtypes not distinguished |
| ±3 and ±4 generation terms? | Yes | Yes | Extend upwards on 2-generation cycle, e.g. M=MMM | No |
| Number of affine terms | 4 specialised (H, W, WB, HZ), plus parent- and child-in-law terms merged with consanguineals (e.g. WM=M) | Spouse (+ order of marriage for cowives); co-sibling in law, uncle-in-law, aunt-in-law; opposite-sex-sibling-in-law; one further vaguer term | Affinal terms generally polysemous with structurally equivalent consanguineal terms, e.g. MB=HF, FZ=WM | Rich set, none overlapping with consanguineals: H, W, WZH, WB=ZH (consummated sister exchange), WB (no sister exchange), WF/DH, HW |
| Self-reciprocal cross-nuncle terms? | No | Yes | No | Yes |
| Skewing? | No |  | No | Yes, from MB, based on term WZH that he would use to refer to your F |
| Other special features |  | Order terms in cowives, children and grandchildren terms | Sibling terms extended to sib-in-laws, inconsistent with rest of system | Special terminological sets for relations resulting from symmetrical sister-exchanges |

Table 1. Summary of main features of the four kinship systems surveyed

What Table 1 shows clearly is that NO feature in this table is the same across all languages of our mini-sample. Even against this background of diversity, Nagovisi stands out as particularly different, in many respects much more like a typical Australian kinship system than a Papuan one. Additionally it has a clear matrilineal social organisation where the others are strongly patrilineal. But diversity is evident in the other languages too: in the parent’s generation, there are typical Iroquoian systems (Watam), mixed Iroquoian/Sudanese ones (Ekagi, Nen/Komnzo) and the specific subtype of Iroquoian known as Dravidian, where FB=HF (Nagovisi); in ego’s generation there are typical Iroquoian systems (Nagovisi), Hawaiian (Watam), and split systems which are Dravidian on the paternal side but Sudanese on the maternal side (Ekagi, Nen/Komnzo). Self-reciprocal nuncle terms (MB=BC) are found in Ekagi and Nen/Komnzo but not the others; self-reciprocal grandkin terms in Ekagi and Nen/Komnzo but not the others; dedicated terms for great-grandkin, and for great-great-grandkin, in Ekagi and Watam but not the others. Sibling terms, though averaging around a 4-way distinction, employ a number of different criteria. Nagovisi does not have distinct affine terms, recycling consanguineal terms, but all the other languages maintain a strict distinction between consanguineal and affinal terms and make rich sets of affinal distinctions.

This comparison of four cameos gives an initial picture of just how different Papuan kinship systems are. But to make this more systematic – and avoid accusations of cherry-picking – we need to broaden our sample. To do this in anything less than a multivolume encyclopaedia we need to strategically pick out a few syncretisms and compare them across a range of languages. This is what we do in the next section.

**3. Zooming out to a broader sample**

Our comparison of four cameos gave an initial picture of just how different Papuan kinship systems are. But to make this more systematic – and avoid accusations of cherry-picking – we need to broaden our sample. To do this in anything less than a multivolume encyclopaedia we need to strategically select a few syncretisms and compare them across a range of languages. Here we draw on our sample of Papuan languages and contrast their diversity against global patterns. Kinbank is a database containing a global sample of kinship terminology from 1,229 languages, built around 115 kin types. Within this dataset are 112 Papuan languages from 36 clades (Figure 1).

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Description automatically generated

**Figure 2.** A map of the 112 Papuan languages from 36 clades in Kinbank, with labels identifying the four system cameos.

**3.1. Common features of Papuan kinship**

The most prominent feature in Papuan kinship is the bifurcate merging pattern. This term describes the separation (bifurcation) of parent’s opposite-sex siblings concurrently with the merging of parents and their same-sex siblings[[12]](#footnote-13). We look at the father/nuncle set, mother/aunt set, brother and male siblings, and sister and female siblings. For each of these three relative sets, there is a “design space” of five possible organisations, of which only four are ever realised, whether in Papuan languages or elsewhere.

First, we look at the parent/nuncle set, specifically: F=FB≠MB (Figure 3). The bifurcate merging system makes up 55% of the total sample of Papuan languages, almost double the next most frequent organisation (F≠FB≠MB). The bifurcate merging pattern only makes up 28% of non-Papuan kinship systems. The bifurcate merging system is most prominent amongst TNG languages, found in 21 languages, but occurs at least once in 27 of the 44 language clades for which we have data. The equivalent pattern in mother/aunt terms (M=MZ≠FZ) shows a similar level of frequency (45%) and diversity (24 of 44 language clades) amongst Papuan languages, and infrequency amongst non-Papuan languages (23%).

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Description automatically generated

**Figure 3:** Bar plots showing the proportion of languages that show kinship syncretisms. Numbers in boxes show the total number of non-Papuan and Papuan languages used in each calculation. In the bottom row of graphs, only select structures are shown but the numbers reflect total counts.

Within sibling and cousin terms, the pattern corresponding to a bifurcate-merging terminology occurs in the form of either B=FBS≠MBS or Z=MZD≠FZD. Amongst the male set, 60% of Papuan languages contain a bifurcate-merging pattern, high compared to just 17% of the global sample. There is also a difference, though less marked, for the female cousin systems, at 43% against the equivalent global pattern of only 18% of the global sample. As with the parental structures, most languages displaying bifurcate-merging pattern are from the Trans-New Guinea family, but the bifurcate-merging pattern in siblings/cousins occurs in fewer clades than the equivalent pattern in parents. The male pattern occurs in 18 language clades, and the female in 16. There are fewer Papuan languages that have complete cousin data, which may explain this discrepancy.

Despite the prevalence of the bifurcate merging pattern, it does not appear to be a overarching organising principle of Papuan kinship. Of the 62 Papuan languages for which we have data, only 16 present a bifurcate merging system in male and female parents, and male and female cousins. Of the 97 languages for which we have father/nuncle and mother/aunt data, 38 have bifurcate merging patterns in both subsets of kin, and 21 show the pattern in either male or female relatives. Of the 64 languages for which we have cousin data, 27 have the bifurcate merging pattern in both male and female cousins, and 13 show the pattern in either male or female cousins. We see similar patterns of heterogeneity when assessing the relationship across generations, but within genders: father/nuncle bifurcate merging systems co-occur with male cousins bifurcate merging systems in 28 of 66 languages, and mother /aunt and female cousin systems in 19 of 62 languages. The inconsistency of merging patterns as between father’s side and mother’s side appears to be a feature of Papuan kinship.

Asides from bifurcate merging systems, Papuan languages stand out in other ways. First, Papuan languages show a higher frequency of two particular sibling systems, relative to the global sample. One system contains three terms, one each for elder brother, younger brother, and a single sister term (27 Papuan languages or 28% of the sample). The other is the use of a single kinterm for all siblings (14; 14%). The three-term system is found across 15 clades but is most common in the Trans-New-Guinea family (7 languages), with a secondary cluster in North Halmaheran languages (4 languages). The single-term sibling system is found in five clades. It is mostly common in the TNG clade (11 languages), with more than half of those languages coming from the Timor-Alor-Pantar subclade (6).

Another common feature of Papuan kinship terminology is self-reciprocity in grandkin terms, as described in Watam, Nen and Komnzo, and Nagovisi (Table 1). In taking a broader view, we see that around 34% of our Papuan sample contains a single self-reciprocal term for ‘grandfather’ and ‘grandson’, compared to only 15% of the non-Papuan sample. There is a similar pattern between ‘grandmother’ and ‘granddaughter’ (36% in Papuan languages, 15% in non-Papuan). Although this feature is proportionally more common in Papuan languages than non-Papuan, it is not the most common organisation of grandkin: most Papuan languages (57%) have separate words for grandfather and grandson. Grandkin self-reciprocity occurs in 13 Papuan clades.

Finally, Papuan kinship contains a disproportionate occurrence of matrilineal skewing (MB=MBS). 16% of Papuan languages contain this feature (n = 12), compared to 5% of non-Papuan languages. Nine of the 12 languages are from Trans-New Guinea, largely Central West Papuan, but it also present in the Yam family.

**3.2. Is Papuan kinship disproportionately diverse?**

While above we have looked at particular features of kinship terminology that make Papuan languages stand out, another interesting question is where kinship terminology is generally more diverse amongst Papuan languages than other language groupings. We look at this in two ways. First, we look at how many distinct kinship structures Papuan languages have relative to global variation. Secondly, we look at how the range of diversity covered by Papuan languages compares to other language groupings. Because the possible space is so vast, we restrict our analyses to three subsets of kin types: (a) parents and nuncles, (b) siblings alone, and (c) siblings plus cousins. We analyse male and female relatives simultaneously. For each subset, we consider genealogical categories differentiated by relative age (eB vs yB) or by the relative age of connecting kin (FeB vs FyB) and gender of speaker (♂︎Z vs ♀︎Z), creating a larger possibility space. To analyse kinship terminology structure, the list of kinterms applied to kin types is converted into a string of 1’s and 0’s by comparing all kin types within our subset of interest to each other and asking if they have the same kinterm (1) or not (0). This binary string is a “structural vector”, an abstract representation of a language's kinship terminology; it ignores the language-specific forms contained in the kinterms. For example, English *grandfather* and Russian *dedushka*, and English *grandmother* and Russian *babushka*, have unrelated forms but cover identical sets of kin types: they have the same patterns of syncretism, so they would receive the same structural vector. Using the structural vector, we can quantify how many different structures there are in Papuan languages compared to other groups (Table 2). How does that compare to the totality of global variation –in selected language families, in Kinbank as a whole, in a random worldwide sample of languages (the same size as our sample of Papuan languages)? We summarise the answers to these questions in Table 2.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Parents &  Nuncles | Siblings | Siblings & Cousins |
| Papuan | N | 94 | 102 | 61 |
| Distinct Structures | 40 | 33 | 53 |
| Indo-European | N | 88 | 99 | 81 |
| Distinct Structures | 12 | 7 | 22 |
| Austronesian | N | 263 | 329 | 191 |
| Distinct Structures | 50 | 52 | 99 |
| Pama-Nyungan | N | 68 | 98 | 26 |
| Distinct Structures | 36 | 18 | 20 |
| Global (Kinbank) | N | 870 | 1,011 | 612 |
| Distinct Structures | 154 | 118 | 327 |
| Distinct structures in Random Sample | 32.37  (28.93 – 35.82) | 29.26  (25.94 – 32.59) | 45.04  (41.63 - 48.45) |

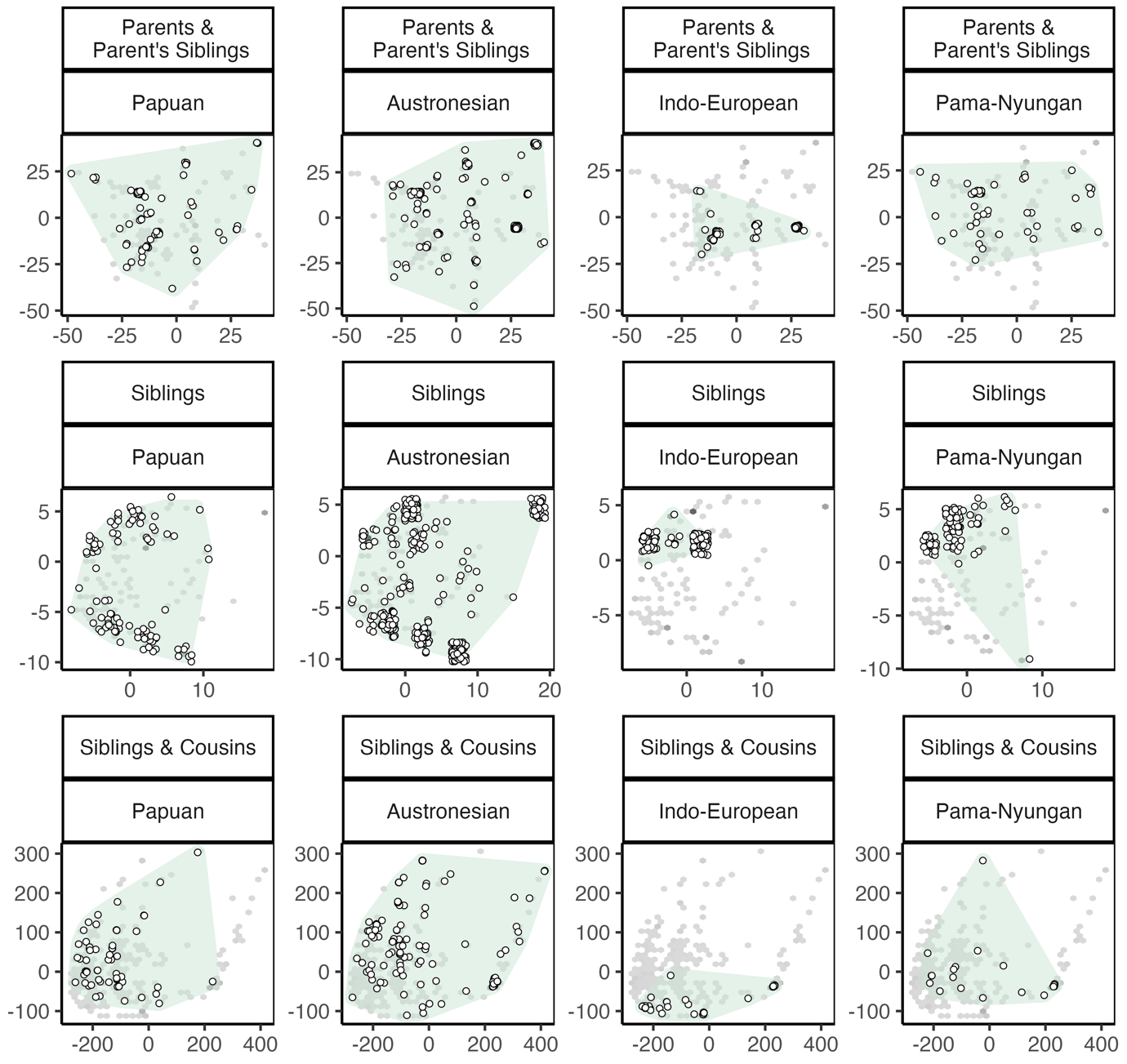
**Table 2.** For each subset of kin types (columns), we show the number of languages and distinct structures for our sample of Papuan languages, for Indo-European, Austronesian, and Pama-Nyungan languages held in Kinbank, and within the entire sample of Kinbank. The final row shows the average number of distinct structures in a random worldwide sample of languages, drawn from 1000 random samples, with one standard deviation above and below the mean.

The most striking outcome of Table 2 is that in all our subsets, kinship terminology diversity in Papuan languages is more than one standard deviation higher than we would expect in a random sample. In fact, Papuan languages contain between 16% and 25% more diversity than a random selection of languages of the same size.

To compare the level of diversity in Papuan languages against the global pattern, and against other language groupings, we use the ratio of distinct structures to languages. The ratio of kinship terminology structures to language tells us, on average, how many languages are there per distinct structure, where a value of 1 indicates one language per structure (the maximum level of diversity), and every increase in the number of languages per structure indicates a decrease in diversity. In the entire Kinbank sample Parents/Nuncles have a ratio of 5.7 languages per structure, while the Papuan sample has a ratio of 2.4, meaning Papuan languages show more than twice the diversity of the general sample. Indo-European shows the lowest level of diversity, with a ratio of 7.3. Austronesian languages have a ratio of 5.3, and Pama-Nyungan shows the lowest ratio, 1.9, and therefore the highest level of diversity in this comparison.

Siblings show a ratio of 8.6 languages per structure in the global sample, but only 3.1 in Papuan languages. Indo-European again shows limited diversity with a ratio of 14.1, Austronesian has a ratio of 6.3, and Pama-Nyungan has a ratio of 5.4. Extending the sibling analysis to include cousins, the Kinbank sample contains a ratio of 1.9 languages per structure, but Papuan languages have a ratio of 1.2, close to the point where each language has a unique structure. Again, Indo-European shows the least diversity, with a ratio of 3.7, Austronesian has a ratio of 1.9, and Pama-Nyungan contains a level of diversity approaching Papuan, with a ratio of 1.3. In general, Papuan kinship shows a higher level of diversity than global, Indo-European, and Austronesian samples, and levels of diversity slightly higher than Pama-Nyungan languages.

Papuan kinship contains more distinct systems than we would expect, given the number of languages, but do Papuan kinship systems cover more of the kinship design spacethan we might expect? A metric that approximates this idea is what is called ‘functional richness’ in the ecology literature (Villéger et al. 2008), which quantifies the area occupied by a particular species across a set of measured features.[[13]](#footnote-14) Since ‘functional richness’ has many other resonances in linguistics, we use the term ‘design space dispersal’ here instead. To calculate the ‘design space dispersal’ (‘dispersal’ for short) for Papuan and other language groups, we first calculate the size of the entire space by comparing all pairs of Kinbank languages and calculating the Manhattan distance between them. Manhattan distance is the sum of the difference between the two vectors. If a language has a 1 in the position where another language has 0, that increases the distance between them by 1, providing a measure of structural distance between any pair of languages. The distances are summarised into two dimensions using principal coordinates analysis (PCoA; also known as classical metric multidimensional scaling). We use the PCoA projection to calculate the area covered by each language group, in the form of convex hulls as a proportion of the total area. The area of the convex hulls (green) quantifies how much of the total space is covered by a subset of languages, compared to the total attested structural diversity. We standardize the scores so that the volume occupied by the full set of sampled languages returns a value of 100%.

****

**Figure 2:** A UMAP projection of global kinship system diversity for Parent and Parent’s Siblings, Siblings, and Siblings and Cousins. Underlying the plot are a tessellation of grey hexagons, which show the distribution of languages across the whole database. The shade of the hexagon indicates the density of languages (darker shades indicates more languages). White circles show the distribution of languages within the given grouping. The green convex hull shows the totality of the space covered by language groupings.

Figure 2 provides us with a visualisation of global kinship terminology diversity, and of how languages from different groupings (white circles) are distributed across the observed possibility space. As expected, Papuan systems are scattered widely across the observed space. In Parents and Parent’s siblings, Papuan languages cover approximately 73% of the space, much more diversity than seen in the neighbouring Pama-Nyungan languages (54%). However, Austronesian languages cover more of the space (86%), whereas Indo-European languages only cover 15%. Papuan sibling dispersal covers a large portion of the space (71%), though considerably less than Austronesian (95%). Pama-Nyungan only covers around one-third of the observed sibling space (34%), while Indo-European again shows the lowest level of coverage at 5%. Expanding the sibling category to include cousins creates a much larger theoretical and observed possibility space. Austronesian sibling and cousin terminology cover the largest portion of the space (92%); Papuan languages follow (62%), ahead of Pama-Nyungan languages (45%). Indo-European languages again show limited diversity (14%).

This method shows that Papuan kinship is more diverse than Indo-European and of Pama-Nyungan (hardly surprising, given that we are comparing 36 clades to one), but has less dispersal then Austronesian. The enormous dispersal of Austronesian is a somewhat surprising result, and we are far from understanding its causes. One possibility is that, in its vast parcourse, Austronesian has had close contacts, including substantial intermarriage and consequent mutual adjustment of kinship systems, with a host of other families – Sino-Tibetan in Hainan, Austroasiatic and Miao-Yao in Mainland Southeast Asia, Bantu in Madagascar, plus numerous Papuan lineages. This makes its kinship systems much more diverse than some other aspects of its structure. On the other hand, we have sampled just over a third of the Papuan maximal clades in Kinbank, so more thorough coverage of these is likely to produce a burgeoning of dispersal.

**4. Conclusions**

Kinship terminologies form tightly integrated systems, each with their own logic, so that comparisons across multiple languages will inevitably be torn between the classical comparison of a limited number of whole systems – which we undertook in Part Two for four quite distinct systems from the four corners of the Papuasphere – and a more expansive term-by-term comparison across a broader sample, carried out in Part Three by applying several new methods to the large Kinbank database. Each perspective has its own strengths and weaknesses, and further advances in the typology of Papuan kinship systems will need to draw on both.

Both comparisons reveal the high level of diversity in Papuan kinship systems, though in many cases (e.g. the reuse of some consanguineal terms for affines) significantly deviant features were confined to languages of one family, Nagovisi (South Bougainville) in this case. The more quantitative comparisons we made in Part 3, while confirming the diversity of terminological systems for siblings, cousins, parents and nuncles among Papuan languages, did so at a less dramatic level than we might expect from some other features surveyed in this volume, and in particular revealed comparably high levels of ‘dispersal’ across the design space for Austronesian languages.

To the extent that commonalities can be found across the dazzlingly diverse set of design solutions evolved in Papuan kinship systems, we mention several here: first the widespread discrepancies in how relatives such as parallel cousins are treated according to whether they are in one’s own patriclan or not, second the large and interesting set of affinal terms, third the high incidence of languages (especially TNG) with just a single sibling term. We also emphasise that many of the more unusual features of Papuan kinship terminologies, such as terms for cousins resulting from symmetric sister exchange, are rare enough by world standards that they were not entered into the original Kinbank database, so that we lack quantifiable global comparisons for them.

It goes without saying that this chapter has only scratched the surface of this rich and complex area. Within the kinship terminology itself there are many further topics calling out for research (e.g. address terms vs reference terms; kinship in sign and in special speech styles). Then there are questions of mutual influence between social structure (marriage rules, clan filiations, locality of residence), of the effects of language contact (in particular when different members of a large sibling set create more far-flung networks of alliance by marrying into different languages), and the reconstruction of key borrowed terms such as the ubiquitous terms for certain types of affine in southern New Guinea alluded to in ˆ2.4, which are likely to play a key role in piecing together deep histories of intergroup contact and alliance.

1. [↑](#footnote-ref-2)
2. Cross-kin are those where the chain of genealogical connection crosses an opposite-sex sibling link. Thus a cross-uncle is MB and a cross-aunt FZ, and a cross-cousin is MBS, FZS etc. The term ‘cross’ is opposed to ‘parallel’, where the chain of connections stays in the same sex, e.g. a parallel uncle is FB and FBS is an example of a parallel cousin. [↑](#footnote-ref-3)
3. We employ the standard symbols for representing etic kinship relationships in a compact manner, namely: B=brother, e=elder, C=child, D=daughter, F=father, H=husband, M=mother, S=son, W=wife, y=younger, Z=sister, ♂︎=male ego/anchor, ♀︎=female ego/anchor. These can then be concatenated to yield expressions like FBS ‘father’s brother’s son’, ♂︎BW ‘man’s brother’s wife’, ♀eZ ‘woman’s elder sister’. [↑](#footnote-ref-4)
4. We follow established practice in using *nuncle* to mean ‘uncle or aunt’ and *nibling* to mean ‘nephew or niece’. [↑](#footnote-ref-5)
5. In fact, this particular mix is by no means rare in the world’s languages. Passmore et al (2021) found it 35 times in their global sample of 571 languages – more languages, in fact, than exhibited consistently Hawaiian systems (15), and over half the number exhibiting consistently Dravidian systems (62). [↑](#footnote-ref-6)
6. The description given here follows Pospisil’s (1960, 1980) analysis. Note that his glosses often in conflict with those g in Steltenpool’s (1969) dictionary, a source we disregard here, and his transcriptions omit tonal marking, phonemic in Ekari (Hyman & Kobepa 2013). [↑](#footnote-ref-7)
7. Fide Nash (1974:132). The equation of eZ with FM seems puzzling, since eZ is in ego’s moiety while FM is cross-moiety. [↑](#footnote-ref-8)
8. Though the degree of genealogical depth varies significantly, even across small distances. Evans has recorded genealogies of nine generations from Nen speakers, but in nearby Komnzo Ayres (1983: 266) describes the genealogies as "shallow", often going back only two generations between ego and the apical ancestor; genealogies collected by Christian Döhler (p.c.) confirm this, rarely going back further than 3-4 generations. Of course even the nine generations recorded in Nen is extremely shallow compared to the forty or fifty generations regularly recorded from Polynesian societies. [↑](#footnote-ref-9)
9. Cross-kin are those where the chain of genealogical connection crosses an opposite-sex sibling link. Thus a cross-uncle is MB and a cross-aunt FZ, and a cross-cousin is MBS, FZS etc. The term ‘cross’ is opposed to ‘parallel’, where the chain of connections stays in the same sex, e.g. a parallel uncle is FB, and FBS is a parallel cousin. [↑](#footnote-ref-10)
10. The Komnzo post-sister-exchange nuncle terms are probably contractions of *fäms ŋafe* "exchange father" and *fäms ŋame* "exchange mother" (Christian Döhler, p.c.). [↑](#footnote-ref-11)
11. The K cognate *kaimat* has a slightly different meaning: ♀︎BW. [↑](#footnote-ref-12)
12. Though of course corresponding patterns of splitting-and-merging can occur through the kinship system (Godelier, 2011). [↑](#footnote-ref-13)
13. For a use in linguistics to quantify the amount of grammatical diversity at risk from language endangerment, see Skirgård et al (2023). [↑](#footnote-ref-14)