Appendix A: The complete phrase-frame list for social science research article introductions

This is a list of phrase-frames derived from the introduction sections of the research articles included in the Corpus of Social Science Research Articles (COSSRA). Details of the compilation of the list and the corpus it is based on can be found in:


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**Symbols & markup**

* the variant slot
& multi-functional p-frame
**bolded word** a variant with two or more occurrences in the corpus
**highlighted in red** a p-frame with 11 or more variants
Group A. Referential p-frames

A1. Specification of attributes

<table>
<thead>
<tr>
<th>Phrase</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>a * analysis of the</td>
<td>Bayesian, detailed, direct, Foucauldian, rational</td>
</tr>
<tr>
<td>a * body of research</td>
<td>burgeoning, coherent, growing, large, sizeable, vast</td>
</tr>
<tr>
<td>a * feature of the</td>
<td>common, defining, final, general, key</td>
</tr>
<tr>
<td>a * in which the *</td>
<td>context, world, worker, period, year, design, model, state</td>
</tr>
<tr>
<td>a * share of the</td>
<td>growing, large, larger, significant, sizable, substantial</td>
</tr>
<tr>
<td>a great deal of *</td>
<td>attention, forgetting, it, its, research, scholarship, variability, variation</td>
</tr>
<tr>
<td>a growing body of *</td>
<td>empirical (evidence), evidence, literature, research, work</td>
</tr>
<tr>
<td>a large number of *</td>
<td>clusters, items, learners, observable, respondents, sources, strategies, studies</td>
</tr>
<tr>
<td>a number of * and</td>
<td>authors, details, economic, experiments, important, infant, key, settings</td>
</tr>
<tr>
<td>a number of * and</td>
<td>papers, researchers, scholars, studies</td>
</tr>
<tr>
<td>a number of studies *</td>
<td>explore, find, have (added, been, found, investigated, shown), starting</td>
</tr>
<tr>
<td>a variety of * and</td>
<td>methods, measures, meanings, minds, print, destinations, purposes, demographic, species, bodies</td>
</tr>
<tr>
<td>a wide range of *</td>
<td>fields, masses, outcome, periods, potential, products, public, research, resources, scenes</td>
</tr>
<tr>
<td>a wide variety of *</td>
<td>alternative, backgrounds, contexts, domains, circumstances, geographic, reasons, tasks, theoretical, ways</td>
</tr>
<tr>
<td>about the nature of *</td>
<td>knowledge, knowing, petroleum, science, that, these</td>
</tr>
<tr>
<td>about the role of *</td>
<td>citizen, ideology, others, pedagogy, spillover, substantive</td>
</tr>
<tr>
<td>across a range of *</td>
<td>characteristics, first, indicators, instructional, issues, proficiency, specifications, written</td>
</tr>
<tr>
<td>an analysis of the *</td>
<td>contributions, extent, intersection, kind, lab, latter, willingness</td>
</tr>
<tr>
<td>an increase in the *</td>
<td>gasoline, level, minimum, number, price, returns, wage</td>
</tr>
<tr>
<td>an overview of the *</td>
<td>arguments, existing, extensive, health, history, literature, relevant (literature), results</td>
</tr>
<tr>
<td>and the * of a</td>
<td>absence, emergence, gum, idea, likelihood, possibility, presence, results, risk</td>
</tr>
<tr>
<td>and to what extent *</td>
<td>civilian, does, is, it, learners, learners, long-term, other, test-taker</td>
</tr>
<tr>
<td>as a * of the *</td>
<td>component, by-product, consequence, description, driver, function, result, part, member, moderator</td>
</tr>
<tr>
<td>as a function of *</td>
<td>recent, chronic, covariates, gender, firm, individual, school, their, these</td>
</tr>
<tr>
<td>as a function of the *</td>
<td>studies, time, timing, length, number, signals</td>
</tr>
<tr>
<td>as a means of *</td>
<td>payment, reducing, understanding, social, limiting, connecting, assisting, legitimising, countering</td>
</tr>
<tr>
<td>as a way to *</td>
<td>alleviate, intensify, improve, foster, extend, trace, produce, define, answer</td>
</tr>
<tr>
<td>as the number of *</td>
<td>cases, categories, nuts, intermediaries, rounds, to-be-remembered</td>
</tr>
<tr>
<td>at least * of the</td>
<td>some, part, one, one-half, biomarkers</td>
</tr>
</tbody>
</table>
at the * of a stem, root, centre
at the * of the heart, conclusions, dynamics, expense, implications, interface
at the heart of * petroleum, Simmel, our (analysis), group, these, U.S., employees
at the level of * productive, neighborhoods, determiner, ultimate, grammatical, noticing, detection
attention has been * to given, paid, devoted
attention has been paid to * the (information, design), how, supranational, formulaic (language), sentence
attention to the * of realm, problem, role, variety, sources, multiplicity, comparison, accumulation, consequences, discussion
based on the * of concept, principles, risk, tenets, importance, presence, performance, degree, results, experiences
based on the * that assumption, idea, premise, observation
both the * and the international, lending, right, object, demand, buyout, demographic, domestic, form
by the * of the end, use, nature, aspects, editors, form, value, avoidance, members, comparison
changes in the * of position, distribution, structure, composition, size, degree, level, lives, odds, frequency
debate on the * of goodness, sustainability, financialization, varieties, promotion, meaning, consequences, saliency
differences in the * of approaches, number, types, ownership, interpretation, wages, behavior, implications, impact, provision
estimates of the * of impact, effect(s), proportion, performance
even in the * of case, context, midst, absence, presence, face
even in the absence of * an, any, strong loss, researcher, Jews
evidence of the * of role, effect, impact, relevance, accuracy, fluidity
evidence on the * of impact, effect(s), effectiveness, efficacy, role, relevance, financialization
evidence that the * of inclusion, introduction, presence, impact, nature, proportion, outcome, return
for a number of * reasons, details, variables, conditioning, genetic, young, important.
from the fact that * they, it, even, information, voice
implications for the * of behavior, future, study, provision, sorts, usefulness, character
implications of our findings * and, for, in
in a number of * emerging (fields), essential, areas, settings, cities, experiments, studies, important, different
in a variety of * fields, work (settings), settings, contexts, domains, tasks, content, samples, markets, destinations
in a way that * cannot, makes, lowers, links, is
in an attempt to * identify, uncover, become, have, move, reconstruct, proactively
in an effort to * explain, analyze, improve, systematize, minimize, stay, get
in terms of its * relation, economic, election, policy, partisan, impact
in terms of the * implicit, underlying, structural, complexity, characteristics, kinds, role, media, proficiency, rate
in the * of a face, event, effects, learning, idea, presence, context, form, pursuit, aftermath
in the * of an aftermath, eyes, acquisition, absence, case, context, event, effects
in the * of the context, sense, rest, nature, use, case, absence, aftermath, form, wake
in the * of their minds, form, course, middle, context, upbringing, effectiveness, assessment
in the * that they sense, event, ways, hopes
in the absence of * the, any, such, reliable, articles, direct, overlapping, cognates, loss, commitment
in the case of * the, our, a(n), reading, papers, Korean, deaf, educational, tax, duopoly
in the context of * the, a, European, Africa, existing (literature), prior (literature), present, research, reception, futures
in the context of the * treatment, acquisition, multivariate (normal linear model), present (study, model), relevant/wider/prior (literature), positive, living, parent (child relationship)
in the development of * these, L#, technology, scientific, antisocial, specialized, congenital
in the face of * transnational, changed, global, new, a, the, such, losses, value, internal
in the field of * SLA, economics, psychology, early (childhood education), cognitive (psychology)
in the form of * information, prices, lower, higher, detailed, deferred, reduced, public, permanent, long
in the literature on * media, manipulation, information, tax, contract, growth, racial, monolingual, corrective, educational
in the number of * exposures, donors, covenants, nodes, decisions, hours, parties, people, semantic, active
in the presence of * symptoms, uncertainty, unawareness, transactions, adverse, institutions, rollover, interaction, exposure, treatment
in the process of * being, becoming, taking, making, shaping, defining, network, decolonization, reallocation, struggles
in the sense that * if, they, it, the, an, we, such, all, exposure, variables
in the study of * religion, SLA, campaign, human, social, immigrants, income, translations, synchrony, pain
in their study of * the, recent, English, U.S., middle-status, wine, native
increase in the * of number, price, share, use, level, popularity
information about the * of value, distribution, prices, sources, shape, severity, lack
insights into the * of nature, mechanisms, nuances, types, array, role, logic, diversity, drivers, importance
interest in the * of field, effects, strength, study, quality, complex, well-being, intersections
is a * of the sum, part, function, test, measure, discussion, consequence, period, description, fraction
is based on the * concept, interactions, assumption, new (observation), observation, idea, following (thought), use
is one of the * most, main, largest, simplest, first, key, basic, defining, few, mechanisms
literature on the * of expansion, processing, workings, measurement, use, causes, determinants, effect, impact, consequences

on the assumption that * these, this, the, in, web, training, respondents, middle

on the basis of * the, their, these, beliefs, ideas, early, geological, skeletal, shared, input

on the effect of * age, improved, increased, this, institutional, political, situational, receiving, diversity

on the effects of * instruction, institutions, other, liquidity, the, public, this, voter, teachers, decentralising

on the impact of * starting, shorting, experiencing, patent China, school, reputation, family, women’s, relative

on the part of * the, a, speakers, members, feminist, perceived

on the role of * specific, anthropology, aptitude, these, working, variable, health, parental, teachers, luck

on the use of * these, force, the, evidence, soft, imbalanced

one or a few * such, subfields, subjects, linguistic, migrant, properties, observations, destinations, minor

research on the * of effect(s), effectiveness, impact, causes, component, processing, determinants, varieties, benefits, implications

role in the * of process, kind, characterization, concentration, functioning, organization, development, determination

show that the * of effect(s), effectiveness, impact, crisis, problems, level, correlations, combination, fertility

study of the * of effect, implications, effectiveness, impact, rise, unit, structure

the * and consequences of antecedents, causes, existence, extent, location, susceptibility

the * effects of the way, manner, case, conditions, context, environment, interval

the * literature on the existing, previous, recent, empirical, methodological, psycholinguistic, vibrant, broader

the * nature of the artificial, precise, improvisational, situated, underlying, categorical, focalized, differentiated, ordinal, institutional

the * of the relationship value, sources, nature, quality, beginning, dynamics, togetherness, strength

the * of these studies results, implications, first, popularity

the * of our findings implications, interpretation, robustness

the * structure of the causal, statistical, error, abstract, internal, initial, basic, compensation, incentive, over-the-counter

the * that it is fact, distinction, extent, sense, notion

the * to which the extent, degree, spread, height

the * to which they degree, extent, parties, groups, nation-state

the causal effect of * education, health, patent, wealth, treatments, family, paternal, political

the conditions under which * the, a, this, arties, ethnicity, variables, there, social, dictators, countervailing

the context of the * nation, prior/relevant/wider (literature), present (study/model), positive, acquisition, positive, parent, multivariate
| the degree to which * | second, **they**, individuals, learners, people, reports, sources, these, this, capital, trust |
| the degree to which * is **trust**, power, leadership, capital, language |
| the effect of * on proficiency, age, institutions, patents, wealth, fatigue, drinking, losses, depression, diversity |
| the effects of * on aptitude, teachers, instruction, schooling, education, trauma, advertising, institutions, sanctions, literacy |
| the effects of * and shortness, heritage, independent, direct, recasts, contrast, demand, policies, work, interviewers |
| the effects of the * intervention, constraints, threat, riot, responsibility, distribution, differing, manipulated |
| the emergence of a * large, new, wild, technological, financial, modular |
| the empirical * of the predictions, implications, estimation, investigation, detail, content, section, heart |
| the end of the * eighteenth, nineteenth, twentieth, 18th, day, century, 1st, Cold (war), process, word |
| the existence of a * general, more, well-informed, well-defined, viable, true, markedly, reputation, crunch |
| the extent to which * these, they, the, we, individuals, buyers, voters, subjects, success, processes, attitudes |
| the fact that * is it, there, voice, culture, drumming, information |
| the fact that the * marginal, rent, investor, same, elections, research, sample, frequency, university |
| the first * of the phase, stage, part, estimates, evidence, formulation, mobilization |
| the focus of the **&** learners, reputation (literature), bias, modern, present (article, study, report) |
| the idea that the * human, public, rights, intrinsic, randomization quality, overall, travellers |
| the impact of * and social, institutional, Christian, demand, experience, choice, policies, respondents, modernization |
| the impact of * on canvassing, connections, genetics, salience, treatment, wealth, reputation, nationalism, ideology, religion |
| the impact of the * intervention, treatment, features, type, alternative, crisis, trade, vouchers, global, differences |
| the implications of our * findings, results, model, theory, work, contribution |
| the implications of the * results, findings, work, literature, theory, first, second, recent (development) |
| the importance of the * issue, tasks, use, provision, intersection, perceived, experimental, initial |
| the influence of * on culture, ethnicity, editors, neighbourhoods, violence |
| the literature on * and American, media, health, growth, dynamic, governance, identity, incarceration |
| the literature on the * determinants, causes, effect(s), consequences, trade-off, measurement, use, rise, relationship, power |
| the magnitude of the * likelihood, disposition, reverse-disposition, activity, effect, dilemma, urban-rural, economic |
| the nature of * and male, economic, reality, intelligence, science, knowledge, work, implicit |
| the nature of the * relationship, link, interactions, interface, mechanisms, outcomes, constraints, object, entity, programs |
A2. **Identification and focus**

as one of the *
body of research has *
by focusing on the *
**focus on the * of**
focused on the * of
focuses on the * of
focusing on the * of
has been * in the
has focused on the *
have been * in the
it is the * of
**one of the most **
referred to as the *
refers to the * of
research has focused on *
**such as the * of**
the nature and * of
the present study is **
there has been a *

with a * of the
discussion, review, critique, parameter, presentation, member
of, about
the (implications), how, negative, results, challenges
overlap, study, methodology, implications, potential, larger, material
means, execution, precise, private, nongeneric, aforementioned
power (relations), relationship, principles, prevalence, evaluation, use (of xx),
discount, earlier, above
end, advent, introduction, consequences, impact, effectiveness, mechanics,
predictions, premise, details

with a discussion *
with a discussion of *
with regard to the *
with respect to the *
with the * of the
with the exception of*
work on the * of

with a * of the
discussion, review, critique, parameter, presentation, member
of, about
the (implications), how, negative, results, challenges
overlap, study, methodology, implications, potential, larger, material
means, execution, precise, private, nongeneric, aforementioned
power (relations), relationship, principles, prevalence, evaluation, use (of xx),
discount, earlier, above
end, advent, introduction, consequences, impact, effectiveness, mechanics,
predictions, premise, details

Stack ((author name}), Scharf (and colleagues study), research

effect(s), implications, use, structure, ambivalence, difficulties, legality, persistence

**most**, least, key, parameters
accumulated, argued, been, begun, found, identified, focused
use, complex, consequence, joint, recruiters, role, specific, particularity
role, effect(s), impact, consequences, implications, importance, characteristics, dynamics, extent
causes, effect(s), efficacy, perception, role, case, fact, privileging
effects, impact, acquisition, measurement, experiences, motion, recruitment, power, processes
practices, consequences, role, impact, use
couched, conducted, performed, described, presented, reflected, studied, used, questioned
effects, role, relationship, similarities, language, disruptions, privileging
presented, implemented, missed, tried, measured, negligible
site, nature, complexity, presupposition, smell, susceptibility, presence, result, power
ancient, basic, common, consistent, diverse, democratic, generous, robust,
frequently, historically
bony, fed, financialization, policy, positive, product, vertical
absence, use, domains, degree, number, set, impact
the, trying, young, explicit, employment
assessment, measures, demands, supply, introduction, existence, presence,
evolution, type, dimension
antecedents, extent, scope, quantity, demands, role, severity
an (attempt), part, situated (within)
growing, concomitant (increase), host (of studies), plethora (of research), renewed (interest, emphasis), rapid (growth), long, shift
there is * evidence that ample, growing, mounting, no, little, some, indirect, also
this line of research * has (examined), suggests, generally (neglects), by, established, in (a new direction)

A3. Contrast and comparison

between the * and the public, laboratory, human, earth, manager, seller, child, CEO, median, centre
between the * of the candidate, elites, magnitude, nature, predictions, rights, segment, top
in contrast to the * broader, correct, ethnic, growing, general, weaker, majority, existing, evidence, insight
in line with the * reasoning, theory, trends, pattern, recommendation, defense, premium
is related to the * broader (literature), literature, work, implications, likelihood, health, form
is * related to the* also, closely, clearly, inherently, positively
on the relationship between * education, growth, definiteness, schism
and related to the * of age, creation, health, impossibility, implication, magnitude, development, role, work, payoff
related to the literature on * the (measurement, determinants), savings, flight, debt
the association between * and stunning, BW, EEC, EPV, income, meaning-making, adrenarche
the distinction between * and assessment, gift, general, definite, analytic, self-interest, strategic, supervised, sex
the relationship between * and education, religion, recidivism, fit, causes, depression, democracy, definiteness, employment
the relationship between the * two, results, size, model, structure, academy, measure, candidate, manager, presence
to be associated with * a (memory measure), decreases, all, opportunistic, radical, more, poor, lower

A4. Deictics and locatives

a * in which the* context, world, period, year
at * end of the the, one
at * points in time all, certain, different, varying, multiple, two
at the * of a* beginning, time, end,
at the * of the* beginning, start, end, time, dawn, peak, top, height, bottom, edges
at the beginning of * the (21st century), talks, workers' (careers)
at the end of * the (20th, task, session), his (career), secondary (school), this (introduction)
at the end of the * & session, task, process, day, twentieth, ##th
at the time of * my (visit; research, study), the (choice, decision), decision-making, decision,
data (collection), sale, transition, passage
in the rest of * & Ireland, the (UK, world, country)
in the second * of the* half (of the twentieth), phrase
in this * it is* setting, context, case, task
over the * two decades
over the course of *
over the past * decades
second half of the * century
the * half of the
the * part of the
the * phase of the
the beginning of the *
the end of the * century
the rest of the * &
the second * of the * &
the second half of the * &
using data from the *

past, last

several (months, minutes), our, a (term; four-year), # (weeks), the (1990s),
time, change
two, several, three, few, #
twentieth, ##th
second, half
first, second, third, final, main, later, latter, greater, missing
first, second, final, downward

##th, ##st, ####s, fame, process, relationship
nineteenth, twentieth, eighteenth, ##th

world, country, UK, region, room; election (cycle), non-traveler
half, part, phase, edition, limitation

##th, twentieth

#### (YEAR), PROPER NOUNS (General Social Survey, Current, Population Survey)
Group B. Stance p-frames

B1. Hedges

are * likely to be
are * more likely to
are less likely to *
are likely to be *
are more likely *
are more likely than *
are more likely to *
I find that the *
more likely to * in
more likely to * to
more likely to be *
more likely to have *
were more likely to *

not, more, less, also, relatively
significantly, both, no, voters, also, not, much, then, therefore
receive, be, use, employ, invest, contribute, give, cast, join, commit, etc.
affected, better, large, larger, more, members, biased, affected, familiar, influenced, etc.
any, other, the, their, young, others, whites, other
be (associated, correlated, reflected, influenced, unemployed, taken, seen, born, hired, fired), add, move, resign, have, leave, perceive, participate, hold, lead, transition, use
urban-rural, resulting, required, loss, probability, environment
occur, fail, participate, engage, be, enroll
submit, lead, move, transition, turn, lead
ousted, reflected, associated, connected, protected, born, taken, associated, unemployed, representative, etc.
skill, come, a, offspring, friends, pregnancy, high
fail, choose, move, vote, expect, be, attend, take

B2. Epistemic stance

argue that the * of
at the expense of *
can be * as a
can be * in the
can be found in *
can be seen as *
can be used to *
depend on the * of
depends on the * of
has been shown to *
have been * to be
have been shown to *
have been shown to be *
increases the likelihood of *
is a * feature of

nature, core, neglect, effects, alternation, mobilization, extent, consequences
sleep, efficiency, another, their, the, other, short-term, broad, overall, larger, etc.
treated, used, seen, analysed, found, interpreted, expressed, utilized
embedded, revealed, manipulated, found, included, done
a, preschool, the (Appendix, use), many
a, yet, indicator, playing, random
determine, set, improve, explain, prevent, impose, forecast, test, estimate, assess
discretion, existence, correlation, direction, quality, timing, level, ethnicity
characteristics, color, details, sign, strength, gender, role, quality, nature, outcome
be, have (a large/positive effect), foster, reduce, help, significantly (influence)
shown, claimed, argued, hypothesized
be, have, predict, contain, increase, vary, affect, impact
an (important mechanism), important, individually, nonreactive
job, relief, victory, basing, offspring, terrorist, terrorism, etc.
central, key, distinguishing, dominant, signature, salient, general
it has been * that ** suggested, observed, argued, said, accepted, proposed, claimed, conjectured, hypothesized, etc.

it has been suggested that * these, two, long, tubule, relative, individually, parties, participation

it is * that the* possible, thought, hypothesized, assumed, known, expected, compelling, crucial, important

it is not * to* limited, possible, hard, invariant, trivial, sufficient

little is known * the* about, of

little is known about * when, how, whether, the, recent

little is known about the * frequency, number, relative (advantage), development, boundary, circumstances, comparability

may or may not be * telling, useful, protective, in, that,

this is the first * study, paper, sociological, systematic, annual, known, large-scale

to our knowledge * is the this, ours

to the best of * knowledge our, my

we argue that the * variation, presence, direction, extent, consequences, mobilization, maintenance, consumption, alteration, increasing, etc.

B3. Expressions of ability and possibility

allows us to * the study, observe, measure, isolate, tie, separate, question, investigate, conduct, assess, address, disentangle, identify, explore, etc.

it is * that the* possible, thought, hypothesized, assumed, known, expected, important, compelling, crucial

it is possible to * produce, distinguish, accommodate, verifiably, use, specify, test, collect

that it is * to* possible, necessary, difficult, hard, crucial, important, bad, sensible

we are able to * learn, consider, address, estimate, examine, construct, replicate, undertake, observe, draw

B4. Evaluation

a * understanding of the better, clearer, deeper, modern, perfect, narrow, nuanced, fetishized, privileged

a more * understanding of complex, comprehensive, nuanced, thorough, general, dynamic, porous

a number of important * contributions, issues, scenarios, ways

an important * in the change, element, question, role

an important role in * the, its, establishing, coordinating, modifying, communicating, framing, moral, substantially

are consistent with the * observed (structure), stated (assumptions), predictions, invariance, mechanisms, results, idea, claim

consistent with the * of prediction(s), views, logic, findings, results, entry, practice, presence, principle, premise

contribute to the * of ability, making, understanding, diagnosis, identification, interpretation, sociology, growth

contribution of this * is article, study, paper, research
contribution of this * is to article, research, study, paper

even in the * of absence, presence, case, midst, context, face

has a * effect on significant, positive, profound, reduced, direct, causal, minimal, facilitating

has important implications for * the (beliefs), scholars, government, applied (theory)

have a * impact on significant, substantial, different, profound, direct, greater, large

have important implications for * the, us, estimates, practitioners, understanding, political, other

is an important * of signal, predictor, indicator, determinant, factor, feature, part, aspect, component

is consistent with the * empirical (evidence, observation), idea, findings, principle, premise, prediction, claim, notion, views, effect

is important to * that emphasize, note, realise, acknowledge

is the first to * examine, identify, investigate, study, establish, explore, use

is * related to the* closely, positively, clearly, inherently

it * well known that is, was

it is * known that well, widely

it is * that the* compelling, crucial, important

it is difficult to * say, tell, ascertain, reconcile, detect, find, disentangle, estimate, evaluate, measure

it is important to * remember, realise, distinguish, emphasize, underscore, note, point (out), place, replicate, investigate

it is important to * that note, reinforce, realise, acknowledge

it is not clear * that, whether, how, what, exactly

it is not * to* hard, trivial, sufficient, possible, limited, invariant

it is reasonable to * propose, assume, expect, anticipate, expect, start

it is well * that known, documented, established, recognized

one of the most *& one of the most *& accurate, significant, important, fundamental, interesting, damaging, problematic, striking, dramatic, notable

play a * role in crucial, central, major, leadership, critical

play a role in * swaying, squeezing, the, explaining, instructed

play an * role in important, undisputed

play an important role in * the (development), coordinating, modifying (the attitude), moral, communicative, DNA

plays a * role in central, critical, fundamental, pivotal, significant, determining, decisive

plays an important role in * the (organization), its (formation), framing, Italian

the * effects of the* ill, harmful

the present study is *&& broader, novel, methodological, situated, especially (interesting)

there is * evidence that* ample, good, compelling

this * contributes to the paper, article, study, project, investigation
this * is consistent with pattern, result, prediction, finding, structure, idea
this is an important * omission, finding, result, point, oversight, contribution, empirical (contribution)
this is consistent with * the (notion idea), other (findings), our (finding), a, studies, overvaluation
to contribute to the * understanding, literature(s), vibrant (literature), research, customer
to shed light on * the (causes, motives), this (issue), both, it, how, why, mechanisms
shed light on the * nature, time, cases, implications, motives, role, determinants, apparently, underlying
### Group C. Discourse p-frames

#### C1. Metadiscourse and textual reference

<table>
<thead>
<tr>
<th>Expression</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>a brief * of the</td>
<td>description, account, outline, overview, review, discussion, reminder</td>
</tr>
<tr>
<td>a brief overview of *</td>
<td>the, several, existing, previous, statistical</td>
</tr>
<tr>
<td>a discussion of the *</td>
<td>findings, main (findings), results, larger (implications), implications, data, methodology, estimation, surveys, study</td>
</tr>
<tr>
<td>article is * as follows</td>
<td>structured, organized, organised</td>
</tr>
<tr>
<td>at the end of the *</td>
<td>article</td>
</tr>
<tr>
<td>followed by a * of the</td>
<td>discussion, presentation, description</td>
</tr>
<tr>
<td>in section # we *</td>
<td>describe, discuss, present, provide, characterize, revisit, investigate, examine, extend, analyse</td>
</tr>
<tr>
<td>in the * part of the</td>
<td>missing, first, second, later, final</td>
</tr>
<tr>
<td>in the * section I/we</td>
<td>first, second, third, fourth, next, following, final</td>
</tr>
<tr>
<td>in the current study we *</td>
<td>developed, investigated, aimed, build, compare, systematically (investigate)</td>
</tr>
<tr>
<td>in the following * we</td>
<td>sections, section, pages</td>
</tr>
<tr>
<td>in the following section(s) *</td>
<td>we, I</td>
</tr>
<tr>
<td>in the following section we *</td>
<td>describe, review, contextualize, briefly, first</td>
</tr>
<tr>
<td>in the following sections we *</td>
<td>build, provide, will (first provide), begin, first (summarize, identify)</td>
</tr>
<tr>
<td>in the next section *</td>
<td>we, I, there, much</td>
</tr>
<tr>
<td>in the next section we *</td>
<td>review, provide, set, present, discuss, elaborate, explain</td>
</tr>
<tr>
<td>in the present * we</td>
<td>study, work, article, research</td>
</tr>
<tr>
<td>in the present study *</td>
<td>we, I, a (sample of majority)</td>
</tr>
<tr>
<td>in the present study we *</td>
<td>investigated, focus, test(ed), take, extend, build, assume, ask, explored, examine(d)</td>
</tr>
<tr>
<td>in the rest of **&amp;</td>
<td>the (article), this (article), our (sample)</td>
</tr>
<tr>
<td>in the second * of the &amp;</td>
<td>part</td>
</tr>
<tr>
<td>in this * i argue that</td>
<td>article, endeavor, paper</td>
</tr>
<tr>
<td>in this * it is &amp;</td>
<td>essay, study</td>
</tr>
<tr>
<td>in this * we develop</td>
<td>paper, article, study</td>
</tr>
<tr>
<td>in this * we develop a</td>
<td>article, paper</td>
</tr>
<tr>
<td>in this * we examine</td>
<td>study, paper, article, research</td>
</tr>
<tr>
<td>in this * we focus on</td>
<td>article, paper, study</td>
</tr>
<tr>
<td>in this * we use</td>
<td>article, paper, study</td>
</tr>
<tr>
<td>in this article * explore</td>
<td>I, we</td>
</tr>
<tr>
<td>in this article I *</td>
<td>argue, discuss, explore, examine, review, describe, present, provide, trace, capture,</td>
</tr>
<tr>
<td>in this article we *</td>
<td>focus, explore, describe, report, use, present, develop, study, assess, examine</td>
</tr>
</tbody>
</table>
in this article we * a
develop, adopt, describe, present, propose, showcase, introduce, exploit, explore, extend
use, provide, present, study, review, highlight, discuss, examine, explore, extend,
build, present, generalize, focus, show, argue, use, examine, develop, attempt
present, develop, build, use, provide
focus, examine, use(d), develop, address, aim, consider, bridge, also, therefore
propose, review, first, discuss
this, the
article, paper
contains, is (organized, divided, structured, organised), explores
organized, structured
paper, article
basic (results), results, model, data, test (score results)
impact(s), data, experimental (design), empirical (results), setup, study (area)
second, other
correct
second, other
correct
correct
correct

C2. Topic introduction and focus
the aim of this article is to
the aim of this article is to
the goal of this article is to
the goal of this article is to
the goal of this article is to
in doing so we
our in this paper is
purpose of this study was to
purpose of this study is
purpose of this study is to
the aim of this article is
the aim of this article is
the focus of the study
the main focus of this study
the present study the
the primary focus of this study
the purpose of this article is
the purpose of this study is
the results of these studies
the focus of the article
the focus of the current study
the focus of the present study
the focus of this article
the focus of this paper
the focus of this article is
the focus of this paper is
the focus of this study (is)
this article seeks to
we that there is
we the impact of
we also that the
we focus on the *
we show that the * effect, disposition (effect), second (effect), divergence, returns, problems, condition(s), correlations, data
when it comes to * assigning, engaging, expressing, studying, communicating, Islam, Roma, rapport, idioms, reputation

C3. Topic elaboration

as a * of the result, consequence
as a result of * the, this, these (relations), their, pregnancy, colonization, dissatisfaction, food, external, linguistic
because of the * of complexity, difficulty, diversity, scarcity, concentration, absence, importance, demands
due to the * of lack, presence, existence, ubiquity, tendency, development, passage, impact, action, endogeneity
in contrast to the * of broader, correct, ethnic, growing, general, weaker, majority, existing, evidence, insight
in order to * the trace, examine, explore, investigate, advance, maximize, inform, increase, learn, adjust
lead to the * of postponement, liquidation, prosecution, creation, adoption, exclusion, decriminalization, sedimentation, re-emergence, boundaries
to * the effect of estimate, measure, test, assess, explore, study
to * the effects of estimate, evaluate, examine, study, disentangle, capture, determine, isolate, moderate, reduce
to * the extent to examine, investigate, understand, assess, determine, capture, identify, consider
to * the impact of investigate, study, understand, (re-)examine, quantify, measure, estimate, identify, isolate, separate
to * the influence of experience, investigate, understand, disentangle, measure, test, reveal
to * the relationship between explore, estimate, understand, evaluate, analyze, study, assess, specify
to * the role of examine, strengthen, query, study, understand, illustrate, cover, assess, identify, expose
to account for the * possibility, time, process, links, constitutive (role), contrasting (features), distinctive, ongoing
to assess the * of effect, consequences, role, importance, robustness, strength, ability, distribution, times, reach
to be able to * investigate, reject, generalize, differentiate, produce, communicate, completely, directly, profitably
to estimate the * of effect, impact, effectiveness, magnitude, size, comprehensiveness, positions, types
to estimate the effect of * presidential, protest, this, patent, paid
to examine the * of effects, impact, efficacy, role, robustness, performance, development, direction, continuity, risk
to explain the * of absence, dynamics, emergence, persistence, stability, experience
to identify the * of impact, role, source, content, determinants, characteristics, extent
to measure the * of effect, efficacy, influence, impact, consequences, benefits, construct duration
to study the * of \textbf{effect(s), impact, role, dynamics, composition, performance}
to test the * of \textbf{effectiveness, effect(s), influence, predictions, importance, generalisability transmission}
to understand the * of \textbf{influence, impact, effects, implications, etiology, role, notions, range}

\textit{C4. Discourse markers}

\textbf{in addition to the *} \textbf{above-mentioned (reasons), amount, extent, index, influence, literature, long-term, normal, outcome, publication}

\textbf{as we discuss in section *} \textbf{ii, iii, iv, #}