

Incorporating Gendered Analysis and Flexibility in Heavy Work Investment Studies: A systematic literature review

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12 **Abstract**

13 Significant impacts of heavy work investment on employee well-being and organizational
14 performance have prompted its increasing importance as a research topic. The findings about
15 good or evil of these ~~repercusions~~repercussions are nonetheless inconclusive. ~~The phenomenon of~~
16 ~~Heavy Work Investment has emerged as a topic of growing importance due to its significant~~
17 ~~impacts on employee well-being and organizational performance, but findings about the good or~~
18 ~~evil of these repercusions are not conclusive.~~ The intersection of Heavy Work Investment
19 construct with gender has not been explicitly addressed by previous literature review and
20 research. Besides, the relevance of flexibility for women, as one of the key factors for successful
21 work-family balance management, still remains to be analyzed. A literature review on Heavy
22 Work Investment was conducted using the SPAR-4-SLR protocol, wherein 83 articles were
23 selected from a pool of 208 previously identified works. Bibliometric and content analysis
24 techniques were employed, including co-word analysis, to evaluate research production, impact,
25 and trends in the gender perspective within Heavy Work Investment. As a result, a strategic
26 diagram illustrates thematic topics, providing a clear understanding of the field's structure and
27 evolution. Six thematic groups were identified, around work-family conflict as the central theme.
28 The explicit consideration of a gender perspective in literature involves nuanced differences
29 regarding the conclusions of studies with a broader focus. First, the emerging prominence of
30 studies on China and Japan becomes clear with gender as the specific focus of the review, aiming
31 to clarify the experiences women face in more traditional societies with a more decisive division
32 of roles. Second, there is a shift in interest regarding the analysis of Job Demands and Job
33 Resources. Despite the apparent decline in interest in the former, the focus in gender literature
34 clearly shifts towards the side of Job Resources, showing potential for the future. It could be
35 understood that in a context of talent war and employee retention efforts, priority is given to
36 better understanding of facilitating individual and organizational factors for work-life balance,
37 especially for women. Future research areas are identified, including gender differences in
38 organizational support and the impact of flexible work on the work-life balance, providing
39 valuable insights for academia, practitioners, and organizations. The need for more
40 comprehensive cross-cultural and gender research is also made clear.

42 1. Introduction

43 The phenomenon of Heavy Work Investment (HWI) has emerged as a topic of growing
44 importance, since Snir and Harpaz (2012) first defined it as the time and effort invested in work.
45 These authors described it as an umbrella construct, with two main dimensions: time
46 commitment, as in working long hours, and work intensity which implies significant mental and
47 physical effort (Snir and Harpaz, 2012; Tabak et al., 2021). Workaholism and work engagement
48 are recognized as two forms of HWI, with the latter representing the evil, and the former as the
49 good, respectively, ~~which represent a “bad” and “good” kind of it, respectively~~ (van Beek et al.,
50 2011; Taris et al., 2015; Schaufeli, 2016). Previous research indicates that work engagement and
51 workaholism are two independent concepts, exhibiting divergent correlation patterns with work-
52 related outcomes; employees characterized by work engagement typically report positive effects,
53 whereas those displaying workaholic behaviors frequently experience negative consequences
54 (Schaufeli et al., 2008; Shimazu et al., 2012; Taris et al., 2015). HWI is conceptualized as a
55 higher-level umbrella construct encompassing various lower-level phenomena including work
56 addiction, work engagement, passion for work, and workaholism, among others (Tziner et al.,
57 2019; Acosta-prado et al., 2021; Tabak et al., 2021).

58 The interest in researching this phenomenon is justified given its significant impacts on employee
59 well-being and organizational performance, but findings about the good or evil of these
60 repercussions are not conclusive. However, its connection with the physical and mental health of
61 employees is acknowledged. World Health Organization (2022) recognized work-related stress as
62 a "global epidemic", urging employers and policymakers to promote healthy work environments,
63 by modifying workloads or work schedules to enable work-life prioritization. These negative
64 consequences of HWI also translate into economic costs for organizations and governments.
65 Work-related stress is responsible for over \$500 billion in economic costs in the U.S. annually,
66 resulting in the loss of 550 million workdays each year (Moss, 2019). Talented employees have
67 become a powerful source of sustainability and competitive advantage for organizations and
68 being able to retain them is one of the great challenges of management (Mohamad Mazlan and
69 Jambulingam, 2023). Therefore, AN understanding the implications of HWI on work
70 engagement, motivation, job satisfaction, and retirement intentions, among other factors, is
71 relevant.

72 Numerous studies have examined the antecedents, dimensions, and outcomes of HWI, following
73 the prevalent job demands-resources (JD-R) model (Acosta-prado et al., 2021; Tabak et al.,
74 2021). HWI antecedents previously considered by literature include individual factors, such as
75 personality traits (Hughes and Parkes, 2007; Falco et al., 2014; Mazzetti et al., 2014), individual
76 motivation (Van Beek et al., 2012); van Beek et al., 2014; Cooper and Lu, 2019), emotion
77 management (Waghorn and Chant, 2012; Clark et al., 2014; Saleem et al., 2022), and cognitive
78 factors (Van Wijhe et al., 2014). Other perspectives have focused on situational antecedents such
79 as overwork climate in both the family and the organization (Mazzetti et al., 2016; Schaufeli,
80 2016; Žiedelis et al., 2023), organizational support and organizational policies (Ng and Feldman,
81 2008; Siu et al., 2010; Costantini et al., 2021), and leadership style and leader support (Ruiz-
82 Palomino et al., 2013; (Bowen et al., 2014; Innstrand and Grødal, 2022; Jolly et al., 2022;
83 Dishon-Berkovits et al., 2023; Olsen et al., 2023).

84 Most of the extensive studies have analyzed separately HWI two distinct dimensions, although
85 some joint research has also been conducted: workaholism (defined as an addictive attachment to
86 work) and work engagement (something that ~~which~~ denotes a favorable connection to and
87 immersion in one's work). Huml et al. (2020) examine the relationship between work engagement
88 and workaholism among employees in the sports industry, alongside various work-related and
89 individual factors, which could both encourage or mitigate workaholism, such as job flexibility
90 and gender. Their findings indicated that women were more likely to report higher levels of

91 workaholism than men, without higher levels of work-family conflict; rather, it was men who
92 reported significantly higher levels. Authors suggests that men may experience higher levels of
93 conflict than women, because social norms are evolving towards greater paternal involvement at
94 home. ~~due to social norms evolution towards greater paternal involvement at home.~~ Additionally,
95 men reported higher levels of work engagement compared to women. While these findings align
96 with previous research, authors claim for a more nuanced investigation and theorization to
97 understand the gender differences in reported work engagement and workaholism. Di Stefano and
98 Gaudiino (2019) meta-analyze available studies on the relations between subdimensions of
99 workaholism and work engagement and conclude that both concepts overlap and are moderated
100 by nationality.

101
102 This work considers gender only as a potential moderator of workaholism and work engagement
103 relationship ~~the relationship between workaholism and work engagement~~ and concludes that
104 gender did not significantly affect. Andersen et al. (2023) present a first meta-analysis and
105 systematic review of workaholism prevalence in 23 countries, including a discussion on the
106 concept and its measurement, but without any reference to gender differences. Cheng and Gu
107 (2022) explore the relationship between workaholism and work performance by meta-analysis
108 and demonstrate that workaholism and its dimensions (working excessively and working
109 compulsively) exert varying effects on distinct facets of work achievement. This article ~~work~~
110 identifies gender differences only as a future research direction. Russo et al. (2023) test the
111 workaholism-personal burnout relationship in a sample of dual-career couples. Their findings
112 highlight the complex interplay between gender roles, family dynamics, and the consequences of
113 workaholism. However, according to the authors, the small sample and the need to consider other
114 types of couples encourage further research in this direction.

115 In addition to these, many other studies have examined workaholism, its antecedents, and
116 consequences in one way or another (Bakker et al., 2009; Shimazu et al., 2011; Xu and Li, 2021;
117 Ayar et al., 2022; Eason et al., 2022; Falco et al., 2022). In relation to work engagement, Cheng et
118 al. (2022) confirm that unreasonable tasks negatively impact work engagement by activating
119 cognitive and affective responses, however supervisor support can mitigate these effects. Other
120 studies have analyzed work engagement as a mediator between job resources and work-family
121 enrichment (Siu et al., 2010; Hakanen et al., 2011) or as affected by work-family conflict (Lyu
122 and Fan, 2022; Lu, 2023; Tang et al., 2023; Chen et al., 2023).

123 Finally, regarding the consequences of HWI, prior literature has examined individual
124 consequences such as effects on health (both physical and mental) (Kato et al., 2009; Carlson et
125 al., 2011; Milner et al., 2017; Pien et al., 2021; Lange and Kayser, 2022; Milicev et al., 2023),
126 work-family conflict (Cinamon and Rich, 2010; Lee et al., 2021; Eason et al., 2022; Ratnaningsih
127 et al., 2023; Tang et al., 2023), burnout (Houkes et al., 2008; Dishon-Berkovits, 2014; Beauregard
128 et al., 2018; Pujol-Cols, 2021; De Beer et al., 2023; Russo et al., 2023), stress (Demerouti et al.,
129 2005; Choi, 2008; Bowen et al., 2014; Nohe et al., 2015; Oshio et al., 2017; Olsen et al., 2023),
130 intention to leave (Dåderman and Basinska, 2016; Minamizono et al., 2019; Rajendran et al.,
131 2020; Jolly et al., 2022), job and family satisfaction (Demerouti et al., 2005; Bakker et al., 2009;
132 Hakanen et al., 2011; Syrek et al., 2022), and well-being (Hughes and Parkes, 2007; Shimazu et
133 al., 2011; Eek and Axmon, 2013; El-Kot et al., 2019), among others. Job performance (Shimazu
134 et al., 2012; Falco et al., 2013; Shimazu et al., 2015), affective or aggressive behaviors
135 (Tricahyadinata et al., 2020) and organizational citizenship behaviors (Choi, 2013; Singh and
136 Banerji, 2022; Dey, 2023; Mer et al., 2023) are identified as HWI situational outcomes.

137 Much of this research has addressed the specificity of certain professional groups that are
138 particularly prone to dedicating more time and work demanding than others, such as healthcare
139 professionals - doctors and nurses (Pal and Øystein Saksvik, 2006; Day and Chamberlain, 2006;

140 Houkes et al., 2008; *Ádám et al., 2008*;Estryn-Behar et al., 2011 ; Lu et al., 2011; Milner et al.,
141 2017; Minamizono et al., 2019; Zhang et al., 2020; Abusanad et al., 2021; Lee et al., 2021; Ayar
142 et al., 2022; Bradfield et al., 2022); teachers (Rajendran et al., 2020;Tang et al., 2023) and sport
143 professionals (Eason et al., 2014; Mazerolle et al., 2015; Mazerolle et al., 2018; Huml et al., 2021;
144 Eason et al., 2022), to name just a few.

145 **1.1. The presence of gender in HWI literature**

146 The literature has considered from various perspectives the impact of gender on the antecedents,
147 dimensions, and consequences of HWI, with inconsistent results concerning both the strength and
148 direction of the connections among them. Considering this construct as a continuum in
149 accordance with current theoretical proposals that use the JD-R model (Tabak et al., 2021), for the
150 purposes of this work it is assumed that findings relating gender to any of these three parts can be
151 extended to the construct of HWI.

152 This section presents specific findings regarding the relationship of gender with some antecedents
153 (such as job routinization and organizational aspects like flexibility) and outcomes (such as stress,
154 emotional exhaustion, work-family interference, or burnout) of HWI. For instance, Roxburgh
155 (1996) analyzes the impact of job stressors on both women and men well-being and concludes
156 that job demands have conditional effects: higher distress in women is not solely attributable to
157 ~~due to~~ job stressor exposure, since ~~while~~ they are more vulnerable to the negative effects of job
158 routinization. Intending to clarify the mixed results of previous research, the findings of
159 Purvanova and Muros (2010) go against the commonplace idea that women face burnout more
160 than men and show that female individuals experience slightly higher emotional exhaustion when
161 compared to male ones, with men tending to exhibit somewhat greater depersonalization. In their
162 studies on the differences in the use of working and family time, Mattingly and Bianchi (2003)
163 findings suggest that men and women have distinct experiences with leisure time, and they feel
164 the consequences of work-family interference differently. Men experience greater benefits as they
165 compartmentalize their activities and concerns between work and family life, and this ~~which~~ may
166 be influenced by socialization and interconnected work-family experiences.

167 The literature suggests gender is one of the most significant variables, since it touches upon
168 affecting the different experience of working at home, the features, and outcomes of flexible work
169 arrangements, as well as its efficiency. For instance, Field et al. (2023) conclude that women
170 continue to value flexibility more than men, because they still carry out a disproportionate amount
171 of childcare and household work. Indeed, 38 percent of mothers with young children say in this
172 report that without workplace flexibility, they would have had to leave their company or reduce
173 their work hours. According to Powell and Craig (2015) women may be more likely to work at
174 home to accommodate work and family demands, while men would make that choice to facilitate
175 additional employment time. Wall and Arnold (2007) findings propose ~~suggest~~ that, despite the
176 advances in coparenting, women maintain their position as primary parents and are, therefore,
177 more susceptible to suffering the negative effects of Work Interference with Family Life (WIF).
178 Borelli et al. (2017) agree in pointing out that mothers experience more conflict and guilt than
179 fathers because of WIF. Despite the complex and sometimes contradictory findings regarding
180 gender differences in the interaction between work and family, overall, the available empirical
181 evidence suggests that it has a more profound impact on women than on men (Innstrand et al.,
182 2009). While some studies report that women experience higher levels and frequencies of work-
183 family conflict (negative outcome of HWI) (Cinamon and Rich, 2002) (Hill et al., 2004), others
184 suggest that gender has only a limited moderating effect on work-family balance (Aryee et al.,
185 2005; Kinnunenn et al., 2006) or find no significant impact of gender at all (Ford et al., 2007).
186 However, research into gender differences in facilitation, such as positive spillover from work to
187 family and positive outcome of HWI, is largely unexplored. This highlights a critical area for
188 further research to design targeted interventions to support women in managing these dual roles.

189 While previous literature reviews have been conducted on the concept of HWI, none of them have
190 explicitly addressed the intersection of this construct with the gender perspective and the
191 relevance of flexibility for women, as one of the key factors for successfully managing the impact
192 of HWI on WIF. WIF has been the dominant perspective in these previous works, whether from a
193 global perspective (Allen and Martin, 2017; Reimann et al., 2022) or with a focus on an
194 additional issue (such as the impact of the COVID-19 pandemic in the case of Vitória et al.
195 (2022); a life and career stage perspective as in Demerouti et al. (2012); or its effect on job
196 satisfaction in Kong et al. (2018).

197 In this context, this paper contributes to the advance of research on HWI by incorporating a
198 specific focus on gender and the relevance of flexibility to manage the WIF and providing: i)
199 Characterization of the literature in this specific field, considering the evolution of production and
200 papers impact, authors and their origins, journals, main cited articles (intellectual foundation), and
201 topics addressed; ii) Conceptual structure of the domain, establishing relationships between topics
202 and grouping them according to their affinity through co-word analysis; iii) Study of the
203 characteristics of these groups, in terms of size, currency, impact, density (degree of internal
204 cohesion of the topics), and centrality (importance for the development of the topic); iv)
205 Predictable evolution of thematic clusters; and v) Identification of future research avenues related
206 to each group.

207 Finally, our work offers valuable insights on how gender, work-family dynamics, and flexibility
208 intersect. On one hand, it identifies the growing potential of research around job resources, and
209 more specifically, around organizational factors, as determinants for work-life balance, and
210 ultimately for women's talent retention and promotion. On the other hand, it offers substantial
211 contributions, benefiting academia, as well as practitioners and organizations. In terms of
212 academia, our findings emphasize the need for methodological innovation beyond the limitations
213 of traditional cross-sectional studies. There is also potential for enhancing the measures, that
214 ~~which~~ currently rely heavily on self-reports and perceptions. By incorporating a more nuanced
215 exploration of gender (viewed as a continuum of masculine and feminine behaviors) and
216 conducting cross-cultural studies, we can achieve more definitive conclusions about HWI and
217 gender. For practitioners and organizations, we find evidence to support not only the
218 implementation but also the need for appropriate measurement of most effective practices (such
219 as autonomy, career development encouragement, diversity recognition, systemic support and
220 effective team leaders and HR managers), while acknowledging gender diversity.

221 **2. Method**

222 To address the research questions posed, we conducted a systematic literature review following
223 the SPAR-4-SLR protocol (Paul et al., 2021). We adopted this protocol instead of PRISMA or
224 PRISMA-P (Moher et al., 2009; (Moher et al., 2015) because these protocols were developed for
225 systematic reviews in general while SPAR-4-SLR is adapted to social science fields, providing
226 rationales to justify the decision-making in the review. This protocol consists of six steps
227 distributed across three stages (see Figure 1).

228 [INSERT FIGURE 1 HERE]

229 **2.1. Assembling and arranging**

230 Within the Assembling phase, the first step is called Identification. In the introduction of this
231 work, we have already defined both the domain and the research questions. In our review, we
232 have included exclusively articles published in academic journals. We have excluded other
233 documents (such as books, proceedings, and other editorial materials) because we aim to conduct
234 a representative review, not necessarily an exhaustive one. Podsakoff et al. (2005) demonstrate

235 the high concentration of citations in fewer academic journals, which justifies our decision.
236 Finally, given the specificity of the topic, we decided to establish the sole quality criterion for
237 publications as their inclusion in the Science Citation Index Extended (SCI) and the Social
238 Science Citation Index (SSCI).

239 Regarding Acquisition, the second step in this initial phase, we have chosen the Web of Science
240 (WoS) search engine. This database offers several advantages to performing this phase. First, it
241 allows the selection of publications included in SCI and SSCI exclusively. Second, it is possible
242 to download some of the necessary metadata to perform the research. We only excluded 2024
243 from our search and did not establish additional limits to the period, keeping in mind the
244 specificity of the topic. Based on previous systematic reviews on similar topics (Acosta-prado et
245 al., 2021), we run the following query in February 2024:

246 ts=("heavy work investment" OR workaholism OR "work addiction" OR "passion to work" OR
247 "job demands" OR "work craving" OR "work engagement" OR "addiction to work" OR "passion
248 towards work" OR "passion for work" OR "heavy-work investment") AND ts=("work-life
249 balance" OR "job flexibility" OR "work flexibility" OR "flexibility at work" OR wlb OR "work
250 life balance" OR "work-life-balance" OR wfc OR "work-to-family conflict" OR "work-family
251 conflict" OR "family-work conflict" OR wfb OR "work-family balance" OR wfe OR "work-
252 family enrichment" OR "family-work balance" OR "family-work enrichment") AND ts=(gender
253 OR femen* OR femal* OR wom?n OR glass ceiling OR diversity)

254 After defining our research domain, we have included three different components in this query.
255 The first one gathers all the relevant keywords in the heavy-work investment arena. The second
256 focuses on the work flexibility line. The third comprises the different terms used in the literature
257 to refer to gender issues. We limited our search to documents written in English. This query
258 returned 208 articles.

259 The first step of the arranging phase, *In the phase of Arranging, the first step*, Organization,
260 implies the codification of the documents. Considering the bibliometric nature of this systematic
261 review, we obtained the data from the WoS database, codifying the information about publication
262 year, title, outlet, abstract, author keywords, citations, and authors (including affiliation) for each
263 document. With this information, two researchers did a manual screening independently, reading
264 title, abstract and keywords to check if the articles should be included in the final sample. In case
265 of doubt, both researchers read the full article and discussed the criteria. Sixty-seven articles were
266 excluded because they did not deal with HWI-related topics, four because they did not address
267 any topic related to flexibility, sixteen because gender was not a relevant issue, and thirty-eight
268 because a combination of these three motives (thirty-five of them lacked HWI-related topic, and
269 five did not address the three conditions)—the final sample comprised eight-three articles.

270 **2.2. Assessing**

271 In the evaluation step, we used a combination of bibliometric techniques and content analysis.
272 Regarding the bibliometric study, we have analyzed some measures concerning the production
273 and impact of this research line, the main outlets, and the authors' origin. These analyses allow us
274 to answer the questions related to the evolution of the topic and characterize it.

275 The second analysis is based on the co-word technique. This examination identifies relationships
276 between subjects in a research field and helps tracing a research domain's content structure and
277 evolution (He, 1999). Callon et al. (1983) were the first to propose the co-word analysis method
278 to identify and represent associations between concepts from textual information. The logic
279 behind this method is straightforward: if the same document analyzes two topics, it is because of
280 a relationship between them. The study of the co-occurrences between topics in the documents

281 included in a research domain allows for mapping its conceptual structure and drawing the
282 relationships among them in a semantic map (Zupic and Čater, 2015).

283 This technique requires to make some decisions prior to the analysis. First, it is necessary to
284 assign topics to the documents. The most frequent options are using fields like author keywords
285 or KeywordPlus(r). However, this alternative ~~option~~ involves several limitations to consider. To
286 begin with, there is no standardization in these terms, so a previous treatment of these keywords is
287 necessary. Choi et al. (2011) suggested some helpful rules to complete this task. They advise
288 standardization into unique forms (e.g., turnover intent and turnover intention), the consolidation
289 of a term and its possible abbreviations (e.g., WFC and work-family conflict), the unification of
290 synonyms (e.g., workaholism and addiction to work) and the separation of compound terms (e.g.,
291 African American women and the workplace), and the elimination of terms without a clear
292 meaning or too ~~a~~ general ~~ONE-one~~ (e.g., framework).

293 Furthermore, we removed those terms related to location and methods because of the focus on the
294 content related to the analyzed issues. Besides, three researchers screened the list of author
295 keywords for each article and read the abstract to verify if the words were representative.
296 Additional keywords were suggested for articles that needed more than four (less than four) and
297 those without any. The additions were discussed and only introduced when there was agreement.

298 To support all these processes and build the final network, we used Bibexcel software (Persson et
299 al., 2009) and analyzed with VOSViewer (van Eck and Waltman, 2010). It includes
300 functionalities to normalize the relationships and cluster and map the terms. Although there are
301 many options for normalization, Van Eck and Waltman (2009) showed the advantages of
302 association strength, comparing it to other popular choices, like Salton's cosine. These authors
303 also have defended the accuracy of the VOS algorithm for clustering and mapping (van Eck and
304 Waltman, 2014) and the advantages of combining both methods. Thus, we have adopted these
305 options for our analysis, following recent research (e.g., Mora-Valentín et al., 2022).

306 To complete the analysis, we have calculated Callon's centrality and density for the clusters
307 obtained to represent the thematic groups in a strategic diagram (Callon et al., 1991). The
308 centrality of a cluster is calculated as the weighted degree of the nodes included in a cluster
309 regarding the nodes in the rest of the network. It represents the importance of that cluster for
310 developing a research field. The density of a cluster is the average weighted degree of the nodes
311 of a cluster only regarding that cluster. It shows ~~represents~~ how strong the relationships between
312 the topics included in a group are. According to these two dimensions, the strategic diagram
313 allows the identification of four kinds of topics: motor themes, with a high centrality and density;
314 basic and transversal themes, with a high centrality and low density; highly developed and
315 isolated themes (low centrality, high density); and emerging and declining themes (low centrality,
316 low density).

317 Figure 2 summarizes the methodological process with the SPAR-4-SLR diagram of systematic
318 review.

319 [INSERT FIGURE 2 HERE]

320 **3. Results**

321 **3.1. The gender perspective in research on HWI: evolution and trends**

322 Figure 3 shows the evolution of this research line. Regarding production, we can see that since
323 2005, the publication of articles dealing with this topic has been interrupted. Although the figures
324 have been erratic, last three years production of more than ten articles each might be the promise

325 of an expanding interest in this domain. Similarly, we can observe the exponential growth of the
326 number of citations per year and the number of citations per year and article, confirming the
327 previous conclusion.

328 [INSERT FIGURE 3 HERE]

329 Two hundred eighty-five different authors have written this production, most of them with only
330 one contribution (94.03%) and only three with three or more articles: Demerouti (5) and Bakker
331 (5) focus on spillover-crossover effect, and Burke (3) who deals with well-being related themes.
332 Analyzing the origin of this production, we can observe that only four countries (China, Canada,
333 EEUU, and the Netherlands) have more than ten contributions. The production of Australia (8),
334 Japan (5), and some European countries, especially from the north of Europe (Sweden, Norway,
335 Finland, Germany, United Kingdom) and Italy, is also remarkable. Finally, we have analyzed the
336 collaboration. Only six articles have been authored by one researcher. The most frequent number
337 of contributors has been three (23 papers). Of the 77 articles with more than one author, 43 have
338 authors only from one country, and 24 of them have researchers from two countries. The
339 Netherlands (9 papers) and China (8 papers) were the most internationally collaborative countries,
340 along with Canada (5) and Australia (5).

341 The most frequently cited research was Greenhaus and Beutell (1985), one of the seminal studies
342 about work-family conflict. It was quoted ~~eited~~ by almost fifty percent of the articles in our
343 database. The work of Netemeyer et al. (1996) containing the scales for family-work conflict and
344 work-family conflict was mentioned ~~eited~~ in 22 works, and Schaufeli and Bakker (2004), about
345 job demands, job resources and their relationship to burnout and work engagement was
346 referenced in 20 papers. It is also remarkable that this list includes the work of Hobfoll (1989),
347 the origin of the Conservation of Resources theory. Table 1 gathers some details of the works
348 with ten or more citations in our database (excluding general methodological references).

349 [INSERT TABLE 1 HERE]

350 Finally, in regard to the outlets in our database, the articles were published in 52 different
351 publications, which suggests a very dispersed literature. Only fourteen journals contain more than
352 one article, and just three of them have published five or more works: International Journal of
353 Environmental Research and Public Health, Journal of Vocational Behavior and Frontiers in
354 Psychology. Analyzing the research areas, we found that 37 of the 52 were included in
355 Psychology, 19 in Business & Economics, and Public, Environmental & Occupational Health.

356 **3.2. Co-word analysis**

357 After a curating process, 124 terms were kept in our database. Table 2 contains the most frequent
358 keywords. We performed the co-word analysis using exclusively those keywords appearing twice
359 or more in the database. Considering our sample's reduced size, we regard this as a reasonable
360 strategy. Figure 4 shows the network.

361 [INSERT TABLE 2 HERE]

362 [INSERT FIGURE 4 HERE]

363 The nodes' color designs the keywords belonging to a cluster. The thickness of the lines is
364 proportional to the strength of the relationship between nodes. The node's size represents the
365 node's centrality for the complete network. The VOS algorithm found six different thematic
366 groups. Table 3 details the clusters, and Figure 5 represents the strategic diagram. Finally, Figure
367 6 contains the shrunk co-word network, representing the relationship between the clusters.

368 [INSERT TABLE 3 HERE]

369 [INSERT FIGURE 5 HERE]

370 [INSERT FIGURE 6 HERE]

371 **3.3. Links between areas and clusters**

372 To conduct this study, the keywords presented in 208 articles were analyzed, with the cut-off date
373 being February 2024. Out of this set of articles, the study only works with 83, which constitute
374 the final database. From the preliminary analysis, more than 270 different keywords were
375 obtained, of which 62 were finally considered. The reduction was caused by two factors:
376 substitution of terms with similar meanings and elimination of those with little representativeness
377 because of their low presence or weak relation to HWI.

378 The relevance of each cluster is given not only by the number of times a keyword is repeated in
379 the selected articles but also by the connection between terms, which allows the creation of
380 networks. This caused the 62 analyzed keywords to be grouped, resulting in six significant
381 clusters. Their size, that is, the number of keywords they contain, is not homogeneous; it
382 decreases, covering fewer keywords as we move forward in the numbering of the cluster.

383 Of all the keywords analyzed, “Work-Family Conflict (WFC)” is considered the central theme of
384 studies, as the most repeated one in the articles (176 times), followed, albeit by a certain distance,
385 by “Job Demand” (73), “Work Engagement” (70), “Gender,” and “Work Interference with Family
386 Life” (WIF) (both with 69).

387 The names and characteristics of each cluster have been defined based on the meaning of the
388 keywords they contain, resulting in:

- 389 • Cluster 1: Work-Family Conflict and the focus on its adverse effects.
- 390 • Cluster 2: The emphasis on Job Resources and their implications on Work-Family
391 Enrichment and Job Satisfaction.
- 392 • Cluster 3: The complementary perspective to the previous one. Job Demands and their
393 effects on Job Stress, Well-being, and how Leader Support can mitigate the burden of
394 these demands.
- 395 • Cluster 4: The focus on Spillover-Crossover Effects, role transfer between both areas
396 (work/family), and WIF from the dynamics of couples/parenthood and Marital
397 Satisfaction.
- 398 • Cluster 5: Work Engagement.
- 399 • Cluster 6: The dark side of HWI. Burnout and Workaholism.

400 The fact that these clusters are organized around key themes such as Work-Family Conflict, Job
401 Demands, and Job Resources largely reflects what was observed in Table 1 with the most cited
402 works. These works could be considered as precursors or seminal in these themes.

403 We now proceed to conduct a detailed analysis of each one, starting with a reference to their key
404 metrics (summarized in Table 3), particularly focusing on their potential for future development
405 as a research area (refer to Figure 5). Subsequently, the conclusions of the main papers within
406 each group are presented, emphasizing the unresolved issues that will inform future research
407 directions (refer to Section 4.1.2 and Table 4).

408 **3.3.1.Cluster 1 Analysis: Work-Family Conflict**

409 It is the largest cluster in the network, with 17 keywords in 65 out of 83 articles in our database.
410 This group contains the most central node in the network, and part of its node occupies a central
411 position in it (see Figure 4). The average publication year falls in the middle when compared to
412 the other clusters. The same holds true for the rest of the metrics, except for the H-index, which is
413 influenced by group size. The strategic diagram shows its nature as a motor theme, although it is
414 the less central and the densest of the groups in this quadrant (see Figure 5). Its central position in
415 the shrunk network (see Figure 6) and its strong link with the rest of the cluster points to the
416 strong influence of this group in the development of this research domain. According to its
417 metrics, this group has a high potential for the future.

418 Ten of the 17 words that form this conglomerate are the most important in this study as suggested
419 by ~~due to~~ the number of times they appear in the articles database (see Table 2). Among them,
420 “Work-Family Conflict” (WFC) stands out, as it is the most repeated, not only in this group but
421 also in the sample of papers. There is no doubt that “Work-Family Conflict” is a fundamental
422 concept within the studies of HWI (as one of its negative outcomes), hence the name of this
423 grouping. Cluster 1 also includes, with a high number of repetitions, other words like “Gender”,
424 “Health Professionals”, “Turnover Intent”, “Health”, and “Emotional Exhaustion” among others,
425 which are linked to mental health (Depression and Anxiety). The concept of WFC is strongly
426 related to gender studies, and papers conclude that factors that influence WFC result in different
427 outcomes for men and women, with no generalizable conclusions applicable across genders (as
428 discussed in lines 171-180). Many articles in the research focus solely on samples comprised of
429 women to demonstrate or confirm the significant impact of WFC on them. Particularly in
430 demanding professions like healthcare, where work-life balance strategies are not always
431 available, employees face heightened pressure leading to less time for rest, leisure, or family. This
432 results in detachment from work, mental and physical exhaustion, and potentially depression.
433 Consequently, workers in such settings often require adjustments to their work-life balance.

434 WFC literature has paid particular attention to one of the most studied professional groups
435 concerning HWI issues: healthcare professionals (physicians and nurses) (Estryn-Behar et al.,
436 2011; Minamizono et al., 2019; Zhang et al., 2020; Pien et al., 2021). Recent evidence highlights
437 the potential correlation between physicians' long working hours and the occurrence of significant
438 medical errors and lapses in attention. Considering this, there is a pressing need for future
439 research to delve into the intersection of family and work stressors experienced by doctors. This
440 research should aim to uncover the effects of these stressors on specific health-related outcomes
441 and illnesses among physicians (Milner et al., 2017). Additionally, there is evidence that different
442 practice settings (e.g., health professionals working in educational, or research establishments
443 compared to others) predict the various components of physician burnout (emotional exhaustion,
444 depersonalization, and personal accomplishment) differently (Ádám et al., 2008). Further research
445 into the significance of these differences would be desirable. Regarding nurses, future studies on
446 nurse retention should consider including male nurses, something that is currently anecdotal in
447 research despite their increasing number. This will help to clarify if they experience more
448 psychological stress working in a woman-dominated job (Minamizono et al., 2019).

449 Additionally, the connection between WFC and other particularly demanding professions is also
450 evident in this group, such as in the case of teachers (e.g., Gu et al., 2020; Saleem et al., 2022 ;
451 Ratnaningsih et al., 2023; Tang et al., 2023). Rajendran et al. (2020) demonstrate that WFC is the
452 strongest predictor of emotional exhaustion for male and female teachers. In the case of Cinamon
453 and Rich (2010), authors reaffirm the impact of WFC on teachers' emotional health, emphasizing
454 the role of managerial support in mitigating this impact.

455 It is important to underline the connection of the topic WFC with those terms found in Cluster 2
456 (Job Resources) and Cluster 3 (Job Demands). It's worth noting that the Job Demands-Resources
457 model is essential in this literature for understanding WFC.

458

3.3.2.Cluster 2 Analysis: Job Resources

459 It is the second-largest cluster in the network, with 13 keywords. The number of articles that deal
460 with these topics is far less than the previous cluster. However, the average year of publication
461 renders it as one of the youngest groups. Its position in the strategic diagram and its metrics
462 confirm this group's high potential for development and the central role that it has already played
463 in the field (see Figure 5). The analysis of the shrunk network points out that the most substantial
464 relationships of this group are to the WFC cluster, and the Job demands one (see Figure 6).

465 Among the 13 keywords gathered in this cluster, the importance of “Job Resources” stands out as
466 the most repeated (38), closely followed by “Job Demands Resources Theory” (37) (two of the
467 most frequent keywords in Table 2). This model constitutes the fundamental theoretical
468 framework in research on HWI, with its three parts: antecedents, dimensions, and outcomes
469 (Acosta-prado et al., 2021). Concerning the former, “Conservation of Resources Theory” (27)
470 stands out since it underscores the emphasis on job resources and their implications in the
471 enrichment of work-family relationships and job satisfaction. This cluster focuses on the positive
472 outcomes of HWI and some antecedents that may enhance work-family enrichment (as including
473 cross-domain compensation, support, remote work, autonomy, and flexibility).

474 Different studies in this field highlight the integration of factors not currently considered within
475 the theoretical models of enrichment to enhance research. For instance, Lapierre et al. (2018) call
476 for expanding research on role salience (work/family centrality) and its influence on relationships
477 between broader (macro) contextual characteristics (e.g., societal culture, a country's level of
478 economic prosperity, governmental policies), personal (micro) characteristics (e.g., self-efficacy,
479 social power, optimism, occupational status, social class), and WFE. Likewise, Dishon-Berkovits
480 (2014) propose advancing our understanding of how cross-domain compensation (as a part of
481 work-family enrichment) can contribute to healthier outcomes within the work domain by
482 reducing job burnout and promoting individual as well as organizational well-being. Gordon et al.
483 (2012) propose that all sources and types of support (e.g., emotional support from supervisors,
484 coworkers and unpaid instrumental support from family and friends, emotional caregiving support
485 from family and friends, paid instrumental support, and instrumental support from the workplace)
486 must be simultaneously considered to better understand the cross-domain impact of both work
487 and support. The dominance of the JD-R framework in research within this field shapes the
488 factors under analysis. Therefore, delving more deeply into alternative perspectives such as the
489 Conservation of Resources theory, Role Conflict theory or Resource Drain theory could enrich
490 research in this area.

491 Another important term in this group is “COVID-19,” present as a keyword in 30 articles. This
492 conglomerate groups naturally terms related to remote working, promoting autonomy, job
493 satisfaction, and literature focus on the changes in work-life balance and family relationships
494 (Syrek et al., 2022; Vitória et al., 2022). In the case of Tsang et al. (2023), the focal point lies in
495 the effect of remote work on the family-work relationship, impacting self-efficacy and
496 productivity, along with the recognition of influencing factors and mediators in these
497 relationships. This study underscores the importance of supervising **regulating**-remote work hours
498 and self-regulation to enhance work-from-home productivity, besides confirming gender
499 differences. As we will see in the Discussion section, much of the future potential of this topic is
500 associated with the unanswered questions regarding the effects of remote work on job demands
501 and job resources.

502

3.3.3.Cluster 3 Analysis: Job Demands

503 This group occupies a less central position in the network (see Figure 6). Although its centrality
504 and density characterize it as a motor theme (see Figure 5), its metrics show that its potential for

505 future development is moderated, with fewer documents published in the last three years and a
506 decreasing number of citations. It is the oldest group, with an average publication year of 2013.59
507 (see Table 3). The closest groups to this cluster are the Work-family conflict and the Job
508 Resources one.

509 This cluster focuses on various negative outcomes of HWI and different antecedents that may
510 reduce stress and improve employee well-being (such as leader support and control mechanisms).
511 It gathers keywords mainly related to “Work”. “Job Demands”, “Job Stress”, “Well Being” and
512 “Leader Support” clearly stand out, as well as the relationship among three of them: demanding
513 jobs with high demands can cause job stress for responsible workers. Within the different job
514 categories, team leaders or department leaders are among the roles most affected in all
515 organizations because of ~~due to~~ their level of responsibility. In such instances, providing support
516 for leaders is crucial, as they typically face greater pressure within organizations. Conversely,
517 there is an inverse relationship between demand and responsibility and workers' well-being.

518 Another keyword is “Job Control”: establishing job control mechanisms, and incorporating work-
519 life balance measures, would allow for a reduction in stress and an improvement in employee
520 well-being. As expected, both “Job Demand” and “Job Stress” are present in papers also linked to
521 Clusters 1 (WFC) and 2 (Job Resources). On the one hand, this relationship is logical since a
522 demanding job, with responsibility in the company, means that workers may have less time both
523 for rest and for family attention, which would cause WFC. On the other, being stressed can
524 generate anxiety and even depression, which logically leads to a decrease in well-being. Thus,
525 several models of job stress and strain highlight social support as a key resource to assist
526 employees in managing job strain (Roxburgh, 1996). Many authors work with the Job Demands-
527 Resources (JD-R) Theory.

528 Work hours have garnered a lot of attention from researchers as a key indicator of job demands.
529 Therefore, it is around this concept that prospective ~~future~~ opportunities for improvement in
530 research arise. It would be very useful for future researchers to explore the effects of longer work
531 hours on work quality, including potential decreases in attention, motivation, increased boredom,
532 or passive aggressiveness towards supervisors (Ng and Feldman, 2008). Prior research found
533 weak links between work hours and well-being. Social support and other protective factors might
534 also influence the relationship between job demands and WIF (Hughes and Parkes, 2007). Further
535 research is needed to identify psychosocial variables that lessen the impact of work stressors on
536 WIF, potentially facilitating the process of recovery after work.

537 The studies in this field have significantly incorporated the role of control in the relationship
538 between job demands and their consequences, such as well-being, attention to family demands,
539 and stress. However, it is not just about control within the tasks but also about control over how
540 the work is organized and how many people are on the team, especially in flexible and unclear job
541 roles (Grönlund, 2007a). Besides, with organizations quickly changing these days, it is important
542 to study what happens when people feel they have less control over their tasks and performance.
543 Another important topic for further research is whether work allows flexibility for family needs,
544 such as schedule and workload adjustments or to care for a sick child. This kind of measures
545 would need to come with a corresponding control in the private sphere, like flexible gender roles,
546 affordable childcare, or support from friends and family, which can help in sharing caregiving
547 responsibilities when needed (Grönlund, 2007a). Future research should also explore the
548 possibility that institutional differences between countries could affect the level, the nature, and
549 the consequences of job control (Grönlund, 2007b).

550

551

3.3.4.Cluster 4 Analysis: Spillover-Crossover Effects

552 This cluster is the closest to the strategic diagram's center, which makes it difficult to classify (see
553 Figure 5). Despite the fact that it is in the emerging and declining themes quadrant, it has many
554 documents and citations (see Table 3). However, the proportion of recent documents and citations
555 is smaller than most motor themes. All these figures characterize it as a mature topic with a
556 limited potential for future development, although its academic resonance is among the highest.
557 This cluster has the most solid relationships with the previous groups, and it does not have a
558 connection with the HWI dark side cluster.

559 This cluster gathers the crossover effects between work and family, as the latter is understood as a
560 relationship with the partner and/or in the care of children. It is focused on the transfer
561 mechanisms between work and family domains, with an emphasis on role distribution within
562 couples and their effects on each other. The most significant keywords are “Work Interference
563 with Family Life” (WIF), “Dual-Career Couples,” and logically “Spillover-Crossover Effects”
564 (all of them included as most frequent keywords in Table 2). Research in this field indicates that
565 many employers offer family-friendly policies like maternity and parental leave, childcare
566 programs, flexible schedules, and support services, which are appropriate for dealing with family
567 demands and role work distribution, and consequently for reducing the negative influence of
568 family life on work. While these practices can assist employees in balancing both aspects of their
569 lives, organizations should also consider work-related factors (job demands and job resources)
570 that may contribute to conflicts between work and family life (Eek and Axmon, 2013).

571 Also prominent are “Marital Satisfaction,” “Parenthood,” and “Stress,” which are terms that
572 emphasize the meaning of the group and are related to the distribution of roles. Ratnaningsih et al.
573 (2023) investigate the spillover-crossover effects on the WIF, with an emphasis on WFC and
574 FWC on marital satisfaction and personal burnout. Their results show that there was no spillover-
575 crossover effect of WFC and FWC on marital satisfaction for both working wives and husbands.
576 Meanwhile, Bakker et al. (2009) investigate the existence of direct crossover effects of
577 relationship satisfaction between partners, confirming it positively. Regarding the link between
578 parenthood and stress, Eek and Axmon (2013) identify that workplace factors related to flexibility
579 and, particularly among women, attitudes toward parenthood seem to have the most significant
580 effect on working parents' subjective stress and well-being, while benefits appear to have a lesser
581 impact.

582 From this perspective, cultural, institutional, and social influences may also play an important
583 part, particularly when addressing societies with very traditional norms and a clear division of
584 roles (Choi, 2008; Ratnaningsih et al., 2023).

585

3.3.5.Cluster 5 Analysis: Work Engagement

586 This cluster is placed in the emerging and declining quadrant of the strategic diagram (see Figure
587 5), and its metrics show its emerging nature. It is one of the youngest groups, and that explains its
588 smaller number of citations (see Table 3). Besides, this group is less well-defined than the
589 previous ones, and the prevalence of the term "work engagement" dominates in it. Its position in
590 the network, the distribution of its nodes, and its place in the shrunk network show this double
591 nature with a very central element and some satellites that have had less importance in the field.

592 This group was initially formed by six keywords. For interpretation purposes, one of them stands
593 out for its significance, "Work Engagement," giving the name to the group (the second most
594 frequent keyword as Table 2 shows). Additionally, "Flexible Work" and "Family Centrality" are
595 prominent, although to a lesser extent. This cluster focuses on this dimension of HWI and on
596 several individual and organizational antecedents that may contribute to engagement, such as

597 family centrality and flexible work. The fact that workers exhibit a strong sense of belonging to
598 the company or organization where they work may be related to the work-life balance measures it
599 provides. The need for talent retention by companies means that they favor and support flexible
600 work, which in turn is related to family commitment. The work flexibility measures implemented
601 facilitate a balance between work and family.

602 The fact that the dominant perspective in the association between work engagement and flexible
603 work revolves around executive women (their experiences and behaviors) only emphasizes the
604 importance of delving deeper into the study of gender differences in this relationship. This calls
605 for an expansion of studies that incorporate a systemic and multilevel perspective of the work
606 environment (individual, group, organization) and include dyadic studies in the family or private
607 domain (Lu et al., 2011; Dåderman and Basinska, 2016; Costantini et al., 2021). In this line, there
608 is an interest in investigating possible detrimental effects for women of extension of flexible work
609 arrangements, in comparison to men working on-site. According to Field et al. (2023), men could
610 be benefiting disproportionately from on-site work compared to women, because males are more
611 likely to be “in the know,” receive the mentorship and sponsorship they need, and have their
612 accomplishments noticed and rewarded when they work on-site.

613 **3.3.6.Cluster 6 Analysis: The Dark Side of HWI: Burnout and Workaholism**

614 It is both the youngest cluster in the network and the smallest one, with the smallest number of
615 articles and keywords. As in the previous case, we can see a division between the nodes, with two
616 topics, "burnout" and "workaholism," very central and connected with the rest of the network
617 (except for the Spillover-crossover effects cluster) (see Figure 4). That characteristic and its
618 metrics point to its transversal nature, although it is in the emerging and declining theme
619 quadrant. The association between both concepts is consistent with the evidence from previous
620 literature (e.g., Galdino et al., 2021).

621 The two keywords with the most weight in this cluster are “Burnout” and “Workaholism,”
622 important terms in the studies of HWI (see their relevance in Table 2). The connection of both
623 concepts with others in Cluster 1 is clear. As mentioned earlier, Cluster 1 includes both physical
624 and mental exhaustion, as well as mental health-related aspects such as anxiety and depression.
625 There is evidence that WFC can cause or intensify both effects. Regarding psychosocial
626 correlates, workaholism is positively associated with work–family conflicts (Russo and Waters,
627 2006; Andreassen et al., 2013; Chang et al., 2023). According to Eason et al. (2022) both work
628 addiction and burnout have potential negative consequences on personal health. In most cases, the
629 analysis includes a study by gender, which highlights stronger repercussions in women. It also
630 affects more significantly among professionals in the care and health sector, as a result of **due to**
631 the type of tasks to perform, dedication, and involvement. Accordingly, a high number of papers
632 in this group are related to health professionals, because of their special exposition to these
633 aspects.

634 As for the link with terms in Cluster 4, on one hand, the relationship with Burnout is supported by
635 job exhaustion and stress it generates, which interrelates with elements specific to Cluster 4 (such
636 as WIF, working couples, and parenthood). On the other hand, Robinson et al. (2006) in their
637 study on the experience of women married to workaholics, concluded that the strength and
638 cohesion of a marriage were associated with the presence or absence of workaholism, and that the
639 intersection between workaholism and marriages was an area of empirical and clinical research
640 that was still largely overlooked.

641 The central paper of this group is Eason et al. (2022), which links work addiction with WFC and
642 burnout. With a specific focus on athletic training, this study concludes that women were more at
643 risk for compulsive tendencies than men. Other studies also simultaneously address both effects.

644 (e.g., Russo et al., 2023). Alongside this type of research, others within this group focus either on
645 workaholism (Bakker et al., 2009; Shimazu et al., 2011; Huml et al., 2021; Xu and Li, 2021 ;
646 Falco et al., 2022) or on burnout (Ádám et al., 2008; Houkes et al., 2008; Dishon-Berkovits,
647 2014; Nilsen et al., 2016; Beaugregard et al., 2018; Minamizono et al., 2019; Abusanad et al.,
648 2021; Lee et al., 2021; De Beer et al., 2023).

649

650 4. Discussion and future research avenues

651 In this review, we have identified the key characteristics of the literature at the intersection of
652 HWI, gender, and flexibility, considering the evolution of production and paper impact, authors
653 and their origins, journals, main cited articles (intellectual foundation), and topics addressed. With
654 a variable production over time and great diversity in terms of journals (similar in variability to
655 other literature reviews, such as those by Kişi (2023) or Nguyen et al. (2023), the fundamental
656 relevance of works in this field may have never been higher than at the beginning of the 21st
657 century, a phenomenon that is also confirmed in other literature reviews (Reimann and Diewald,
658 2022; Gonçalves et al., 2023).

659 The identification of the most cited authors aligns with the most central and prolific themes in the
660 reviewed literature. Eighty-six percent of these works are related either to the Job Demands-
661 Resources model or to WFC. The exception to this predominance is represented by two
662 methodological studies on measurement tools for work engagement and burnout (Schaufeli et al.,
663 2002; Schaufeli et al., 2006), which prominent use is justified by their applied nature, and the
664 seminal work on burnout by Maslach et al. (2001) which provides a critical review of 25 years of
665 research on job burnout.

666 In recent decades, significant changes in family and work dynamics have occurred across
667 societies. These variations include shifts in family structures (more diverse family types and the
668 evolving role of fathers), as well as transformations in the labor market, including increased
669 female workforce participation and greater work flexibility. Additionally, welfare states have
670 responded with policies aimed at promoting gender equality and supporting work-life balance,
671 such as expanded childcare services and flexible work arrangements. However, work-family
672 balance still implies tensions for individuals, especially when other family members are involved
673 (Reimann et al., 2022). This fact supports the ongoing attraction of researchers towards the
674 domain of WFC. Despite its roots in the mid-20th century, we conclude that WFC remains the
675 most central and prolific area, with potential for future development.

676 It is worth noting the shift in interest regarding the analysis of the two parts of the Job Demands-
677 Resources model. Notwithstanding the apparent decline in interest in the former, the focus in the
678 analyzed literature clearly shifts towards the side of Job Resources, showing obvious potential for
679 the future. We conclude that in the context of talent scarcity and efforts to retain employees,
680 priority is being given to better understanding the individual and organizational factors that can
681 facilitate work-life balance. For instance, in the specific case of female STEM talent, Singh et al.
682 (2018) conclude that, in response to the talent shortage, corporate leaders and lawmakers are
683 advocating for heightened initiatives to attract and retain women engineers. They assert the need
684 to thoroughly assess organizational factors that may impact their occupational attachment and
685 withdrawal decisions.

686 We surmise ~~conclude~~ that the growing importance of organizational support in improving work
687 engagement is unquestionable, with initiatives such as autonomy, career development
688 encouragement, and acknowledgment of diversity. Luo et al. (2024) emphasize the importance of
689 institutional structure and system support in fostering employee engagement. Furthermore,

690 Tsubono et al. (2024) underscores the role of organizational job resources in shaping workplace
691 social capital, with organizational-level resources being particularly influential in driving work
692 engagement. Additionally, Chauhan et al. (2022) underline the need to understand how both
693 family and organizational factors can impact women's career progression. The importance of
694 organizational support programs, career planning, and growth activities in facilitating career
695 success for women is also noted. However, limited attention has been paid to gender differences
696 in organizational support for work-family needs (Clark et al., 2017), so more research is crucial to
697 encourage organizations to adopt a robust family-friendly culture and implement formal family-
698 friendly policies.

699 The explicit consideration of a gender perspective in literature entails nuanced differences
700 regarding the geographical origin of the works. We conclude that the emergent prominence of
701 studies on China and Japan when the focus of the review is more specific on gender is clear,
702 although studies in this field predominantly come from Western countries (particularly North
703 America and Europe), similarly as with the general literature on HWI (Choi, 2008; Cohen et al.,
704 2023; Mori et al., 2024). In China, women often prioritize their family roles above work ones.
705 With increasing competition in the professional arena, women may face heightened vulnerability
706 to WFC compared to men, a context that increases interest in analyzing women's experience in
707 China (Zhang et al., 2019; Lin et al., 2020). Contemporary Japanese society shows a corporate-
708 centric and male-dominant structure with significant gender role division in labor. Nevertheless,
709 women's increasing economic independence and social participation do not alter existing gender
710 roles but instead reinforce them, as they support the corporate-centered society through
711 employment while shouldering the majority of domestic labor, perpetuating male dominance
712 (Ogiwara et al., 2008; Nakamura et al., 2022). These cultural, social and institutional singularities
713 have also led to numerous studies aimed at validating measurement scales for antecedents,
714 dimensions, and consequences of HWI in these countries, typically designed for Western nations,
715 further increasing the visibility of research output in Asian countries (Andersen et al., 2023b).

716 We ~~conclude~~ emphasize the importance of remote work options and flexible work arrangements
717 for women and consider them strategic in promoting women's careers. The strong link between
718 work engagement, flexible work, and women executives shown in Cluster 5 is consistent with the
719 findings of the latest McKinsey report, "Women in the Workplace 2023" (Field et al., 2023).
720 According to this study, many employees prioritize remote work opportunities and schedule
721 control as significant company benefits, second only to healthcare. Women, in particular, value
722 these benefits more, likely because of ~~due to~~ their disproportionate responsibility for childcare
723 and household tasks. Workplace flexibility is crucial for many mothers that, without it, would
724 have to leave their jobs or reduce their hours. However, it is not just women or mothers who
725 benefit; hybrid and remote work offer valuable advantages to most employees. Both women and
726 men highlight better work-life balance as a primary benefit, along with reduced fatigue and
727 burnout. Research indicates that achieving good work-life balance and minimizing burnout are
728 essential for organizational success.

729 Finally, in the evolution of the topics addressed in this research field, there is a turning point in
730 the year 2020. The COVID-19, insofar as it has significantly altered the dynamics of the work-
731 family relationship and the hours dedicated to each sphere, hand in hand with remote work
732 alternatives, flexible work arrangements and limiting socialization and support options, has
733 attracted much of the attention of the most recent academic discourse. The interest in the different
734 consequences that these factors have for women and men are behind the significant recent boost
735 in this literature.

736

737 **4.1. Future research lines**

738 Based on our review of the HWI-gender-flexibility research, we also propose new questions that
739 may lead to new research opportunities, summarized in Table 4. Detailed discussions on our
740 primary methodological and theoretical recommendations for future studies follow below, starting
741 with some overarching issues and then proceeding to the specifics of each domain.

742

743

744 **4.1.1. Methodological and cross-cultural opportunities**

745 The widespread use of cross-sectional studies implies that the results represent only one point in
746 time, overlooking the impact of time on the relationship between variables. Particularly,
747 measuring variables at several points in time could facilitate the identification of causal
748 relationships and their reciprocal direction. Future research based on longitudinal lens,
749 intervention studies or multiwave designs would be particularly useful in shedding light on the
750 causal sequencing of variables included in these studies (Eek and Axmon, 2013); Lapierre et al.,
751 2018; Huml et al., 2021; Eason et al., 2022). Additionally, the predominance of questionnaire-
752 based studies that essentially collect measures of individuals' perceptions reflects a gap in
753 qualitative studies that would be desirable to explore in future research. As studies are generally
754 based on self-reporting (subjective data) of behaviors and performance, this creates concern for
755 method bias. Future research would be strengthened by inclusion of objective outcome measures
756 to reduce the methodological limitations of self-report data (Hughes and Parkes, 2007; Hakanen
757 et al., 2011; Lu et al., 2011; Halliday et al., 2018; Saleem et al., 2022).

758 Different cultural and workplace factors can influence people's perceptions. For example,
759 differences in individualism/collectivism in work groups, or high/low gender egalitarian countries
760 have proven to be relevant in explaining the different relationship between variables such as job
761 autonomy and job outcomes (Man and Lam, 2003; Au and Cheung, 2004; Halliday et al., 2018).
762 According to Bakker et al. (2008), social, cultural, and political contexts may affect individuals'
763 perceptions and experiences within the work–family domain. In the future, researchers should
764 investigate which specific factors in different cultures are most important for how women and
765 men experience HWI and its consequences.

766 **4.1.2. Thematic developments**

767 This section is devoted to present unresolved issues identified in our review of the HWI-gender-
768 flexibility research related to each thematic specific domain (each cluster). These areas represent
769 potential opportunities for future research and are formulated as questions in Table 4.

770 *Work-family conflict.* The imbalance between studies about positive versus negative interaction
771 between work and family is pronounced, with a predominance of research conducted from a
772 conflict perspective. According to Hakanen et al. (2011), there is a clear necessity for longitudinal
773 studies that comprehensively explore both the positive and negative bi-directional interactions
774 between work and family. In this literature, research on working mothers of infants is generally
775 missing, which, according to Carlson et al. (2011), represents an opportunity, as this group
776 provides a good representation for testing models of the work-family interface. The transition in
777 family structure and interaction serves as a natural experiment to examine potential antecedents
778 and consequences of work-family experiences.

779 For other authors, future research on work-family conflict should explore in depth the personal
780 demands in WFC, given findings that it was the strongest predictor of emotional exhaustion for

781 both men and women (Rajendran et al., 2020). Stress perceived from demands within and outside
782 the job domain should be investigated alongside each other, as the different stressors do not
783 disappear when one leaves work or home, potentially exacerbating stressors within the other
784 domain. For instance, time spent commuting to and from work can influence job stress. With the
785 same purpose of delving into the relationships between factors that influence workers' experience
786 of WFC and its negative effects, Pien et al. (2021) propose advancing the examination of
787 organizational factors such as family-friendly policies and practices. Considering not only active
788 groups of workers but also those who have already resigned would significantly advance our
789 understanding of turnover intent, including their reasons for leaving.

790 As to the potential research about professions with higher risk of negative outcomes of HWI,
791 concerning nurses, it would be interesting to further investigate the effect of age on their
792 resilience to stress, burnout, dissatisfaction, and poorer quality of care. Studies on student nurses
793 have indicated that they are more affected by workplace violence experiences and report more
794 distress compared to older nurses. Therefore, future studies should incorporate psychosocial
795 factors and violence as significant withdrawal drivers.

796 If the focus is on health (physical and mental) because of WFC, the literature raises some
797 questions for which there is still insufficient evidence. For instance, future research should
798 investigate how mental health and work-family conflict interact with important factors related to
799 partners and children, such as parenting skills and relationship satisfaction. This knowledge can
800 be valuable for informing policy making and prevention efforts before cross-over effects to other
801 family members can take place (Nilsen et al., 2016). In addition, further research is needed to
802 look at how parent and child factors interact over time during the child-rearing period to
803 understand when families are most likely to face mental health issues, burnout, or WFC.

804 Finally, the focus on gender rather than sex in these studies could enhance the comprehension of
805 masculine and feminine behavioral patterns. Sex serves as a proxy variable for the broader
806 conceptual construct of gender, but it is essential to recognize that women can exhibit masculine
807 traits, just as some men can display feminine characteristics. This shift in perspective allows for a
808 more nuanced exploration of gender dynamics and their impact on behavior (Houkes et al., 2008)

809 *Job resources.* From the perspective of how job resources can facilitate WFE and job satisfaction,
810 an avenue for future research would be to delve into the role of certain moderating factors. For
811 example, family engagement could link the relationship between resources and work-family
812 enrichment (Siu et al., 2010), or different types of leadership and organizational culture could
813 impact on self-efficacy for home-based remote work (Lange and Kayser, 2022), broadening the
814 perspective on additional aspects that promote personal resources of employees.

815 Additionally, given that the COVID-19 pandemic has significantly transformed job resources and
816 job demands, research on the effects of remote work has gained prominence, and suggestions for
817 future development are proposed. Specifically, regarding the impact on job-related stress, well-
818 being, and quality of life, Orfei et al. (2022) suggest studying the effect of possible sleep
819 disorders caused by ~~due to~~ changes in daily schedules related to the reorganization of individual
820 and family routines in homeworking. Additionally, including the perspectives of employers and
821 supervisors in data collection concerning practices for remote work is deemed urgent, as
822 emphasized by Vitória et al. (2022). There is a call for organizations and managers to recognize
823 their role if they allow employees' homeworking, recognizing that the work arrangements should
824 be an employee's decision. The perspective of practitioners supports these suggestions. The
825 "Women in the Workplace 2023" report highlights this divergence between employees and the
826 organization. While 83 percent of employees say the ability to work more efficiently and
827 productively is a primary benefit of working remotely, only half of Human Resources leaders say
828 employee productivity is a primary benefit of working remotely (Field et al., 2023). In order to

829 unlock the full potential of flexibility, this report emphasizes that organizations and managers
830 must: a) Establish clear expectations and norms around working flexibly; b) Measure the impact
831 of new initiatives to support flexibility and adjust as needed; and c) Ensure equal opportunity and
832 fair evaluation systems across work arrangements (avoiding the flexibility stigma and focusing on
833 results, rather than when and where work gets done).

834 *Job demands.* From a methodological perspective, there are several avenues for future
835 development. In general, more multi-source measurements and multi-item scales are needed to
836 enhance the methodological rigor in this field of research. To better understand modern work
837 conditions, how job demands are measured should be improved. Instead of just looking at time
838 pressure, future research could also consider other factors like the need for learning and adapting,
839 as well as the emotional effort required (Grönlund, 2007a). Additionally, Ng and Feldman (2008)
840 propose that measures for the quality of work hours should be improved because they are not
841 measured relative to the number of work hours. According to these authors, ideal measures of
842 quality of work hours should capture the quality of work output relative to the time input.
843 Likewise, the use of additional and holistic indicators of family demands (e.g., domestic work
844 hours or perceived domestic workload) is also required to advance knowledge about the influence
845 of work hours in family satisfaction and psychological distress (Hughes and Parkes, 2007).

846 Additionally, future research could explore demand factors that are more job-specific than
847 general. Besides the specific tasks associated with stress for each profession, the investigation
848 would have to address the when and how often those tasks are undertaken, together with an
849 exploration of the environments (Bowen et al., 2014). Even more, different work settings
850 (leadership styles, the kind of organization of work, human resources policies of the company,
851 etc.) and diverse family situations (support from spouse, distribution of domestic tasks, domestic
852 burden, etc.) should be combined in future research to identify different experiences of stress
853 (Chela-Alvarez et al., 2020).

854 [INSERT TABLE 4 HERE]

855 *Spillover-crossover effects.* The focus of studies in this domain on couple dynamics, using both
856 members of the couple as sources of information, creates the first opportunities for future
857 research. Since most studies focus on intergender relationships, the extension of the results to
858 same-gender couples is unknown, calling for an expansion of research in this direction (Bakker et
859 al., 2008; Bakker et al., 2009). Likewise, the use of small samples is noted (because of the
860 difficulty to obtain responses from two working parents with busy schedules) as well as the
861 limitation of positions within the organization being analyzed (for example, employees or
862 business owners with no employees, first-line managers, and middle-level managers), offering
863 opportunities for future work with more sophisticated and holistic samples (Eek and Axmon,
864 2013).

865 As we discussed in the analysis of Cluster 4, the conclusions of the studies in this line indicated
866 that while the family-friendly policies developed by organizations can mitigate the negative
867 influence of family on work, they also called for considering work-related factors. Further
868 research on the effects of these characteristics (such as workload, uncomfortable work
869 environment, mentoring or coaching, training, job control, regular constructive feedback, and
870 clearer goals) will help support organizational strategies.

871 *Work engagement.* Regarding methodological issues, studies in this field are generally based on
872 self-reporting (subjective data) of behaviors and performance, and this creates concern for method
873 bias. To remove this limitation, future research can consider the collection of more objective
874 indicators by combining data from both managers/leaders and employees. Additionally, the focus
875 is mostly on the availability of certain measures within the organization, rather than on their

876 actual use. Employees' awareness and interpretation of the signals sent through the availability of
877 policies (such as flexible work arrangements, for example) can influence both work engagement
878 and organizational commitment (Costantini et al., 2021b). Future studies should measure
879 interpersonal communication and everyday actions and employ processual designs to conduct
880 path analysis, thus improving the possibility of informing about the causal nature of the
881 relationships.

882 *The dark side of HWI.* From the works addressing this topic and exploring the relationship
883 between workaholism and burnout, research opportunities arise on unresolved issues. One of
884 them concerns the predominant methodology applied in these investigations as we mentioned
885 before. Therefore, future examination of the concept of work addiction and burnout from a
886 longitudinal lens would be beneficial. Besides the methodological issues, the conclusions of these
887 studies suggest that organizational, rather than individual-level factors, may be influencing the
888 work-addiction risk (Eason et al., 2022). One factor that remains unexamined in these works is
889 the concept of flexible scheduling, which is referenced as a buffer of work-family conflict.
890 Another potential omission could be the presence of a supportive work environment. The level of
891 support within the work sphere has been recognized as a factor influencing work addiction.
892 Consequently, future studies examining the impact of job flexibility and support as organizational
893 factors that explain women's risk for compulsive tendencies in comparison to men could be more
894 valuable (Huml et al., 2021; Russo et al., 2023).

895 **5. Conclusions and implications**

896 This study advances our understanding of the intersection between HWI, gender, and flexibility
897 literature. Firstly, it confirms that despite changes in family and work dynamics, WFC remains
898 central in the literature, and continues to attract research interest. Secondly, by identifying a shift
899 towards job resources research, it suggests a certain prioritization of facilitating work-life balance
900 amidst talent retention efforts. Thirdly, it highlights the increasing importance of organizational
901 support, including autonomy, career development encouragement, and diversity acknowledgment,
902 in boosting work engagement and women's career progression. Fourthly, it signals a growing
903 prominence of research addressing gender differences in the intersection of work and family in
904 non-Western countries, especially in those with a distinctly traditional and conservative culture,
905 where roles and responsibilities are clearly defined, and where the dominant burden of family life
906 continues to fall on women. Fifthly, it underscores the importance of remote work options and
907 flexible work arrangements for women and considers them strategic in promoting women's
908 careers indeed, and not simply facilitating work-life balance features. Nevertheless, it does not
909 ignore the potential downside effect of these actions if they exclude women from the space of
910 evaluation, recognition, and promotion that male can exploit while working in person.

911 All in all, this work yields significant contributions, both from an academic perspective and for
912 practitioners, organizations, and governments. Academically, we propose interesting lines of
913 research that can build upon existing knowledge. Methodologically, this work calls for adopting
914 new alternatives beyond the dominant cross-sectional studies, which have significant limitations
915 in establishing bidirectional causal relationships due to their static nature. Additionally, there are
916 many options to advance in improving the measurement of variables, mostly relying on self-
917 reports and perceptions. Broadening the scope to include a more comprehensive examination of
918 gender (as a continuum of masculinity and feminism behaviors) and cross-cultural studies will
919 enable us to draw more robust conclusions about the specificity of women and men regarding
920 HWI. Likewise, for each of the domains identified through clusters, new specific questions are
921 proposed for further investigation.

922 Regarding implications for practitioners, organizations, and governments, ~~QUITAR IN~~ in the
923 current landscape ~~AÑADIR~~ is characterized by talent competition and efforts to retain employees

924 ~~AQUÍ PONER UN PUNTO, I~~ improving the understanding of individual as well as organizational
925 elements that contribute to achieving work-life balance must be a strategic priority for
926 organizations and ~~governments~~~~governments~~. ~~organizations and governments must prioritize~~
927 ~~improving their understanding of both individual and organizational elements that contribute to~~
928 ~~achieving work-life balance as a strategic priority.~~ This comprehension ~~understanding~~ is crucial
929 for defining and implementing the most effective measures, while acknowledging gender
930 diversity. Organizational support, including autonomy, encouragement of career development,
931 and recognition of diversity, is increasingly recognized as vital in boosting work engagement.
932 Moreover, the significance of institutional structures and system support in fostering employee
933 engagement cannot be overstated. The role of team leaders and HR managers as key players in
934 this system of employee support is crucial. Moreover, while the identification of measures in
935 place is relevant, the implementation and estimation of their effectiveness is critical ~~it is not just~~
936 ~~about having measures in place but also about how they are utilized and measuring their~~
937 ~~effectiveness~~. There is a clear call for organizations and institutions to go further with a
938 systematic evaluation of the impact of their initiatives.

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1475 **Tables and figures captions**

1476 Figure 1. The SPAR-4-SLR protocol

1477 Figure 2. SPAR-4-SLR diagram of systematic review process

1478 Figure 3. The evolution of the domain

1479 Figure 4. Co-word network

1480 Figure 5. The strategic diagram

1481 Figure 6. Shrunk network

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1484 Table 1. Most cited articles

AUTHORS	YEAR	TITLE	CITATIONS
Greenhaus, JH; Beutell, NJ	1985	Sources of conflict between work and family roles	41
Netemeyer, RG; Boles, JS; McMurrian, R	1996	Development and validation of work-family conflict and family-work conflict scales	22
Schaufeli, WB; Bakker, AB	2004	Job demands, job resources, and their relationship with burnout and engagement: a multi-sample study	20
Demerouti, E; Bakker, AB; Nachreiner, F; Schaufeli, WB	2001	The job demands-resources model of burnout	20
Hobfoll, SE	1989	Conservation of resources - A new attempt at conceptualizing stress	19
Bakker, AB; Demerouti, E	2007	The Job Demands-Resources model: state of the art	18
Byron, K	2005	A meta-analytic review of work-family conflict and its antecedents	17
Grzywacz, J G; Marks, N F	2000	Reconceptualizing the work-family interface: an ecological perspective on the correlates of positive and negative spillover between work and family.	17
Allen, T D; Herst, D E; Bruck, C S; Sutton, M	2000	Consequences associated with work-to-family conflict: a review and agenda for future research.	16
Edwards, JR; Rothbard, NP	2000	Mechanisms linking work and family: Clarifying the relationship between work and family constructs	12
Karasek, RA	1979	Job demands, job decision latitude, and mental strain - implications for job redesign	12
Frone, MR	2003	Work-family balance	12
Gutek, BA; Searle, S; Klepa, L	1991	Rational versus gender-role explanations for work family conflict	11
Schaufeli, WB; Bakker, AB; Salanova, M	2006	The measurement of work engagement with a short questionnaire - A cross-national study	11
Frone, MR; Russell, M; Cooper, ML	1992	Antecedents and outcomes of work family conflict - Testing a model of the work family interface	11
Greenhaus, JH; Powell, GN	2006	When work and family are allies: A theory of work-family enrichment	11
Frone, MR; Yardley, JK; Markel, KS	1997	Developing and testing an integrative model of the work-family interface	11
Maslach, C; Schaufeli, WB; Leiter, MP	2001	Job burnout	10
Carlson, DS; Kacmar, KM; Williams, LJ	2000	Construction and initial validation of a multidimensional measure of work-family conflict	10
Schaufeli, WB; Salanova, M; Gonzalez-Roma, V; Bakker, AB	2002	The measurement of engagement and burnout: a two-sample confirmatory factor analytic approach	10
Eby, LT; Casper, WJ; Lockwood, A; Bordeaux, C; Brinley, A	2005	Work and family research in IO/OB: Content analysis and review of the literature (1980-2002)	10

1485 Source: Own elaboration.

1486

1487 Table 2. Most frequent keywords

KEYWORD	FREQUENCY
work-family conflict (wfc)	46
work engagement	18
job demands	18
work interference with family life (wif)	18
gender	17
burnout	15
job stress	13
health professionals	12
health	10
workaholism	9
job resources	8
mental health	8
job demands-resources (jd-r) theory	8
turnover intent	8
covid-19	7
well-being	7
dual-career couples	6
spillover-crossover effects	6
work-family enrichment (wfe)	6

1488 Source: Own elaboration.

1489 Table 3. Relevant information about thematic groups

Color	Cluster name	Keywords	Articles	Average publ. Year	% after 2021	Average citations per year	% citations after 2021	H index
Red	Work-Family Conflict	17	65	2017.48	50.8%	3.21	43.3%	22
Green	Job resources	13	28	2018.14	50.0%	5.40	50.1%	16
Blue	Job demands	12	37	2013.59	32.4%	3.73	33.7%	21
Yellow	Spillover-crossover effects	10	34	2015.76	41.2%	5.02	39.5%	17
Purple	Work engagement	6	25	2017.75	52.0%	1.82	38.5%	12
Light blue	HWI dark side	4	22	2018.43	54.5%	2.43	39.1%	12

1490 Source: Own elaboration.

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Research questions	
Cluster 1: Work-family conflict	<p>a) Which antecedents and consequences are more relevant for working mothers of infants to experience positive or negative WIF?</p> <p>b) How does time spent commuting to and from work influence the negative effects of WFC?</p> <p>c) How does organizational factors such as family-friendly policies and practices influence workers' experience of WFC and its negative effects?</p> <p>d) What are the differential effects that age causes on the resilience to stress, burnout, dissatisfaction, and poorer quality of care of health professionals?</p> <p>e) How do mental health and WFC interact with parenting skills and relationship satisfaction? How do parent and child factors interact over time during the child-rearing period to understand when families are most likely to face mental health issues, burnout, or WFC?</p>
Cluster 2: Job resources	<p>a) Would cross-domain compensation have the same protecting effect on burnout for men as for women?</p> <p>b) How do different sources and types of support affect WIF and influence role strain?</p> <p>c) Could family engagement serve as a link between resources and work-family enrichment?</p> <p>d) How do different types of leadership and organizational culture impact self-efficacy for home-based remote work?</p>
Cluster 3: Job demands	<p>a) How do longer work hours impact on work quality? Could downturns in productivity over time be explained by decreases in attention, loss of motivation, greater boredom, or passive aggressiveness towards supervisors?</p> <p>b) Which psychosocial variables could reduce the impact of work stressors on WIF, thereby potentially facilitating the process of recovery after work?</p> <p>c) Can control extend to family sphere (e.g., in the form of flexible gender roles, good and affordable childcare or a network of friends and relatives) and change the relationship between job demands and WFC?</p> <p>d) How do institutional differences between countries affect the level, the nature, and the consequences of job control?</p> <p>e) How do additional indicators of home demands, as domestic work hours and perceived domestic workload, may influence family satisfaction and psychological distress?</p>
Cluster 4: Spillover-crossover effects	<p>a) How do spillover-crossover effects change when intergender and intragender couples are considered?</p> <p>b) Do the effects of a positive attitude towards parenthood and a flexible work situation on general wellbeing and work engagement among working parents differ between different occupational groups and positions?</p> <p>c) What differential effect do family-responsive policies have on successful management of WIF compared to direct intervention on work-related characteristics?</p>
Cluster 5: Work engagement	<p>a) How do the combination of individual, group and organizational indicators affect to the relationship between flexible work policies and work engagement?</p> <p>b) Could men be benefiting disproportionately from on-site work compared to women, given that men are more likely to be "in the know," receive the mentorship and sponsorship they need, and have their accomplishments noticed and rewarded?</p> <p>c) How do family members experience women's work and how does this perception affect opportunities to manage family and work engagement?</p> <p>d) How do other individual difference variables, such as general self-efficacy and optimism, potentially influence the relationship between family and work engagement?</p>
Cluster 6: The dark side of HWI	<p>a) How does the presence of children impact the relationship between workaholism and personal burnout over time?</p> <p>b) Are job flexibility characteristics more valuable for the employee, or might the timing of this job flexibility be better?</p> <p>c) How might a stronger support system, particularly available to workaholic women with more children, aid in reducing workaholism-related personal burnout?</p>

1494 **Conflict of Interest**

1495 The authors declare that the research was conducted in the absence of any commercial or financial
1496 relationships that could be construed as a potential conflict of interest.

1497 **Author Contributions**

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1499 These authors contributed equally to this work and share first authorship. All authors approved
1500 the submitted version.

1501 **Data Availability Statement**

1502 The data presented in this study are available on request from the corresponding author.