Coming Apart at the Seams: Exogenous Shocks to the Already Fraying Campaign for Gender Equality the US Workforce

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October2023

Acknowledgements:

The Authors thank Michael Wolhurstfor his advice and bibliometric support during this paper Further, wethank the participants of the Economic Freedom and Women Projecthe Bridwell Institute for Economic Freedom at Cox School of Business at Southern Methodist University for their helpful comments and the Bridwell Institute for igenerous support of this search The authors are fully responsible for any remaining errors

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While much ‰ Œ } P Œ •• Z • v u] v P v Œ 〈μ o] š Ç] v š Z h v] š of the policies that bolster this do not address the root issues at play and instead, create a precarious situation where this equality is fraught with uncertainty. Furtheremothis precarious nature is worsened when exogenous shocks occur, causing major setbacks in gender 〈μ o] š Ç X t Z] o } v ‰ Œ U] š } (š v ‰ ‰ thises nět Zhově itÁw)ordksv v ^ Z in practice

Whether it is attributed to personal choice or societal pressure, women take on roles in society that conflict with their roles in the workforc@Goldin 2021 p. 152)While policies exist to assist in the hiring, retention, and career success of women in the workplace, these policies often address the shorterm effect of these roles without addressing the ultimate conflicts that are hindering progres@see Goldin 2021 p. 155)In some cases, such as parental leave in academia, the policies appear to help but do not actluebenefit women and sometimes worsen the gender divide(Antecol, Bedard, and Stearns 2018 pp. 2329)

Additionally, in situations where all else is equal, there are still gaps between the genders in the labor market. For example, women who have graduated from MBA programs earn less money than men who have graduated from MBA programs (Goldin 2021 p. 1761). is still true in

cases where the women do not have children and the men do (Ndith) these cracks already showing in gender equality, an exogenous shock, such as CIO). Who uld expose the weakness of these policies and show how fragile this equality realisary researchalready suggests that overnments hutdowns during COVID19 negatively affected the employment and career advancement of women disproportionat (AN) banes and Kim, 2021;)

Research has measude the overall impact of the COVIDí õ ‰ v u] } v Á } u v [• (different industries however, not as much work has been done on the structural issues and governmental policies behind this impa(@lapp, 2023) Furthermore, some of the efforts to mitigate this impact ignore the revious literature about the effectiveness of gender equality policies.

Due to traditional gender roles, the unequal burden of caregiving placed on women, and unmeasured emotional labor, the pandemic disproportionately affected women in the workplace

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/v À o μ š] v P Á} u v [• u ‰ o } Ç u v š š Œ v • U] š]•] u ‰ } Œ š v š š} } the supply decisions of those violived in the labor market. For any potential worker, the decision to seek paid labor depersoon many factors. Similarly, the decision by any employer to hire that worker depends } v š Z] Œ À o μ š] $\}$ v } (š Z Á } Œ I Œ [• ‰ } š v š] o ‰ Œ the wage and benefits required to attract that worker actors that impact v u ‰ o } Ç Œ [• valuation decision of an employe could include her personal characteristics, education levels, reliability, flexibility, as well as relevant job skills. These valuation decision of employing heim terms of wages and benies.

We might ask whetheemployers value women employees similarly to their male counterparts Assuming that a woman can perform the job as well as her male counterpart, the employer would choose to employ her unless the wage/benefits costs are higher. Employers who choose to avoid more talented productive employees for no job-related reasons such as discrimination may well find themselves at a competitive disadvantage to itheon-discriminating competitor. The question is, are there real perceived differences in valuation associated with gender. Some the possible difference that might raise costs women employees relative to meninclude Á } u v preater desire need for flextime or part-time hours and leave for maternity childcare, or elder care (M. Thomas, 201; Post, 201) and possibly higher healthcare costs (Bertakis, et. al, 2010)

There are also several positives associated with women employees that may influence hiring and promotion decisions These include(u o u % o) Ç • [Z] But post inglighter • () CE employees through mentorship and amwork, obtaining higher education levels having strong interpersonal skills, as well as the social and creative benefits of amore diversework force (McKinsey & Company and LeanIn.org 220)2

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minorities are disproportionately vulnerable to layoffs despite years of efforts to recruit these workers (Revello Labs, Inc. 2023) omenfaced almost 50% of the layoffs despite being less than 30% of the workforce (Khan, 202: USChamber of Commerce, 2022) ne possible explanation is the greater proportion of women in pairthe roles particularly voluntary part time workers. When the pandemic hit, pairtne workers were more vulnerable to layoffs than full-time employees (BLS, 2023).

Supplyside Considerations.

In deciding to seek employment tine paid sector, w) u v [•]•] v o u

Gender differences during COVID job loss

Women faced disproportionate job losses during the pandemic compared with men and their recovery back into the workforce has beslower (Clapp, 2023; BLS, 202There are several reasons for thisWomen dominateseveral sectors that faced immediate layoffslockdown and some of the greatest losseser the course of the pandemictravel industry, restaurant work, and retail all suffered large layoffs and closures in initial state actionses occupations could not go remoteasilyand, as a result, the layoffs included virtually entire sectors impacting women disproportionately other sectors of the economy such as servind clerical positions, women fared better as they wenteially able to work remotely. But, of course remote work came with its own set of problems disproportionately felt by women. Compared toonly 14 percent of men, 44 percent of women disproportionately felt by no in the household providing hildcareand educational assistance a time when schools and hildcare centers were closed his was especially true for mothers of young children as Febrizio, Gomes, and Tavares, 202 the monstrate. They coin the term Stoession to suggest the disproportional impact on women especially mothers associated with the COVID 19 recession As they explain using the U.S. monthly Current Population Survey data:

Less educated women with young children were the most adversely affected during the first nine months of the crisis. The loss of employment of women with young children due to the burden of additional childcare is estimated to account for 45 % of the increase in the employment gender gap, and to reduce total output by 0.36% between April and November 2020 (Fabrizio, et al, 2021)

They bund the impact of Covid disruptions were greatest for lower income women and minorities in industries facing lockdown of course, there also were positive incentives government policies for these women to stay home Economic policies such as those that provided bonus unemployment payments operated agreater positive incentive for lower income workers than their higher income counterparts of perhaps encouraged female workers, especially mothers opt for staying home

The long lockdowns and school closures had a cumulative effette gender employment gapeven beyond the arlygroupsjob losses Over time, he challenge of online schooling impactedmore highly educated nd professional mothers who might have been able to work remotely butchose to cut backs they became aware that ier children were not making

government stepped in with increased unemployment benefits. These enhanced payments meant that the lowest income workers faced an economic bonus for staying home. Since women are often the second income in households with partners and children, the decision to

Stearns 2018). We aim to use this study as a benchmark for the eventual tenure outcomes that happen in those departments postandemic.

We were able to confirm the official tenure clock policies for 45 out of the 49 universities used in the study. The policies fell into two categories, exput and optin. In optout policies, every professor was granted an extended tenudeck, but individual professors could request to ept out of the extension. In opin policies, professors were required to request the tenure clock extension for COVHD9 related disruptions and would receive the extension upon request rather than go through the usual tenure clock stoppage process.

Who is eligible for the COVID automatic extension of the reappointment and tenure review timeline?

x Any probationary faculty member who: a) was in the tenure system at MSU as of Spring 2020 scheduled for a reappointment or tenure review, or b) has an employment start date in the tenure system through August 15, 2023. The automatic extension is applied tour record by Human Resources.

An example of an opt

tenure results to be similar to those seen in the Antecol, Bedard, and Stpapes, where the policies caused further disparity for female academics in the departmenthe extent that women faced greater challenges from COVID disruptions we expect to see less disparity in tenure outcomes in the optimal situations, whereacademics can request a tenure clock stoppage if they have experienced disruptions from the pandentido not receive it automatically

Since female academics were found to have taken on more of the childcare during the pandemic, we compared these policies to the school closure rate in each state (Shalaby 2021 p. 663). We used the school closure data from &] v o Z % } CE š CE } v š Z ^š š • [Z • COVIDí õ U _ Á Z] Z CE v I • byZstate, bassed prother percentage of time Exstudents spent in the classroom during the 2020 academic year.

We found that in states where 1/2 schools were open less than 50% of the time, 60.9% of schools (14) had optout policies, and 39.1% of schools (9) had inputolicies. We expect that the universities that are located in states where the schools were dependent than 50% of the time and have optout policies will experience the most gender disparity in terms of tenure.

C /S 1 0 0 1 72.025tates where K

Thedataset only includes traditional tenunteack positions within academia make the career milestone comparisons neaningful We are using the university department website along with the coursecatalogs of the universities to determine active professors.

For the initial findings this paper, we only looked at current professors as of the 2023 semester for each school yeally eassembled a dataset 608 assistant and associate professors at 49 of the to 50 schools is too early to determine ow tenure and career advancement were impacted by COVID The intention of the findings in this papertos create a general snapshot carcademia right nowbut we cannot suggest any longerm impact of the policies of interestbased on the short meframe currently available

To pull this snapshot, we matched up professors with these archer ID on Dimensions.ai and pulled their publication and citation histor. We relied on the professors' CV to match them to their IDs. In some cases, we blended dupset the ethor, and in other cases, we relied on the CVs and Semantic Scholar when the data was missing from Dimensions. The bee other data discrepancies, but nothing indicates it would affect one group more than another.

The Dimensions data includes njmurnal publications such as cited S\$RNprints. We chose to include these because our snapshot is intended to suggest whether each professaded towards successo we would rather over include than under include. For the purposes of the final data set, we will be looking their career success overall and include a complete picture of all publications, including rankings and impaths inclusion may make differences between productive and unproductive scholastarkerbut should not change the appearance of productivity overall.

We also included PhD graduation years; thear each professor joined this university, and a best guess at gender using CVs, faculty websites, other forms of set flight included in the graduation years to distinguish associate professors who may not have progressed in their careers overtime from associate professors who achieved their titles more recently.

We grouped professors based on the tracked state and university policy, as when BT /FQT Q

Initial Findings

Asnoted, it is much too soon to measure the overall impact of the pandemia milestone career. The data below is meant to be illustrative of the pandemic to these top 50 departments and possible rends that may emerge coming out of the pandemic. When broken down by PhD year and gender, some samples are much too small to draw overall conclusions from and the inclusion of SSRN preints may make gaps between productive and unproductive scholars look even bigger. However, with mendifferent groups are compared to each other, the results suggest potential emerging trend.

When looking at the entire pool of assistant professors, the male professors are trending slightly higher than female professorsnumber of publications. Of course at this stage we do not know the impact of hese publications and how that might mitigate the gap in numbers.

Table2: GenderBreakdown of Publication for Assistant Professors

Cohort	Number	Average Pubs
All Assistant Professors	351	8.11
All Male Assistant Professors	235	9.02
All Female Assistant Professors	116	6.26

When broken down into whether their states had schools open more than 50% of the time or less than 50% of the time measure of the severity of state lockwis), no major differences emerged.

Table 3:GenderBreakdownof FacultyPublication by K12 schoolsopen or closed

Cohort	Number	Average Pubs
Assistant Professors Schools Open >50%	175	7.59
Male Assistant Professors Schools Open >50%	116	8.75
Female Assistant Professor Schools Open >50%	59	5.31

Cohort	Number Average Pubs

closed formost of the time, but also compare it with the regulatory uncertainty of schools being open the majority dime but suddenly closing at points.

When broken down by university tenure clock policidisf, erences between gender become clearer

The cohort analysis suggests that the colledpandemic policies may have impacted female professors who graduated their PhD programs a few years before the pandemic streeted most. Given the challenge associated with transitioning to a new department developing new courses the disruption may have ome at a time that was especially problematic for women in this cohort. If this trend continues, we may see the career trajector that cohort and possibly other significantly impacted.

Overall this brief dataoutline suggests that thestenure clockstopping policies may have the same impact that parentalleave had in the Antecol, Bedard, and Stears tudy. We will continue monitoring this to see if this trend continues and to measure what leng impact these polices may have on the careers of men and women in a cade this snapshot, along with the Antecol, Bedard, and Stearpaper, suggesthat careful consideration should go into future mitigation efforts to ensure the efforts do not make the problem worse instead of better. Instead of rushing into simple policitione should be taken to identify and address the root of the problem causing this trend publication differences between women and men

Other concerns for women in Academia

While publication is a critical part of career advancement in academe, it is not the only factor that matters. Teaching, service, and building putation in the profession and within the university are all critical parts of the tenure and promotion process. Unfortunately, the policies directed abund COVID 19 damaged areas as well.

^d Z]vP ((§]À v ••]u ‰ š• (μ o šÇ • š š μ • v ‰ Œ}u}š]}v v documented student outcomes in combination with peer reviews, administrative observations, and in ‰ š Z ‰ Œ•}v o Œ (o š]}v_ ~-8)x If ��ēmeš codiiXUe to îleâch‰ ‰ X ð ó disproportionately in online and/or asynchronous formats, there are concerns that this could negatively impact the tenure prospects for them furth Ay(lón, Sara, 2022).

Additionally, close networked connections are important advancing in role and foinding

While extending the tenure clock could help with the longerm goal of seeing more women hit essential career milestones, the shorterm consequence is vulnerability to expected o Ç \ ((• v %) ••] o Ç o \ •] v P \ v [• Œ Œt toocšine băck floem a•] š]• À Œ termination.

t } v [š I v } Á Æ š o Ç š Z futuÆ Exyoffsco @Edpæy Áut in academia, but, we do know that certain factors are most important when making layoff decision in trustees, parent sevaluations f(igh classroom rankings), and tenured statuses items will likely work against women as they predominantly represent untenured faculty and may be the only option for cutbacks in many Universities.

Concluding Thoughts

Gains made slowling gender equalitycan be eroded quickly when policies and circumstances change COVID 19 and the resulting policy responses that locked down society and institutions of higher education have changed the employment and promotion market providentially greater impact on women. In this paper we outline how higher education institutions are addressing these issues and suggest a number of critical measures for future and continue to track the COVID class and the short effects on women in the academy to consider how this cohort fares as they progress through milestones of their academic careers. We intend to show that the measures taken to decrease disparity actually increase it, and that industries need doctormine how they should approach the reality of gender employment differences if they truly warm ployment equity of the sexes

The challenges outlined in this papleave us with several questions future research with implications for gender and employment beyond COVID

Can hard won gendegains be maintained or at leakstsses behimited during times of crisis? Which policies proved most effective limiting losses during COVID 199

What are the changed gender employment patterns emer**ging** COVID 19'Are any of these changespreferencedriven or are they a result of the policies adopted during the pandemi?

Most of the suggested respons four addressing the disruption women faced during COVIDare increased government assistance has additionablildcare services and leave policies or special consideration, such as stopping the tenure clood to all Are such policies he answer?

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