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

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While much ‰ Œ } P Œ •• Z • v u ] v P v Œ (µ o]šÇ] v šZ hv]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. Furtherembhis precarious nature is worsened when exogenous shocks occur, causing major setbacks in gender (µ o]šÇX tZ]o }v ‰ ‰ ŒU]š}(š v ‰ ‰ thises nštZhošvitÁw)ootksv 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) n some cases, such as parental leave in academia, the policies appear to help but do not actly@benefit women and sometimes worsen the gender divid@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 (Ndt) these cracks already showing in gender equality, an exogenous shock, such as C10,/WD and expose the weakness of these policies and show how fragile this equality real Baisy researchalready suggests that governments hutdowns during COVID19 negatively affected the employment and career advancement of women disproportionat(Allybanesiand Kim, 2021;)

Research has measurde he overall impact of the  $OVID(\tilde{o} \ w \ u) \ v \ A \ u \ v[ \bullet \ CE \ CE \bullet \ different industries however, not as much work has been done on the structural issues and governmental policies behind this impa (Calapp, 2023) Furthermore, some of the efforts to mitigate this impact ignore the previous literature about the effectiveness of gender equality policies.$ 

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

# Demandfor Á } u v [• o } Œ

We might ask whether mployers 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 female employees for nojob-related reasons such as discrimination may well find hemselves at a competitive disadvantage to it meondiscriminating competitor. The question is, are there real perceived differences in valuation associated withgender. Some f the possible differences that might raise costs of women employees relative to meninclude  $\hat{A} u = v$  greater desirg need for flextime or part-time hours and leave for maternity childcare, or elder care (M. Thomas, 208; Post, 201); and possibly higher healthcare costs (Bertakis, et. al, 2010)

There arealsoseveralpositives associated with women employees that may influence thing and promotion decisions. These include( u o u ‰ o } Ç • [Z] BuppoEtingIdtber • () CE employees through mentorship and and creative benefits of a more diverse workforce (McKinsey & Company and LeanIn.org 22)2

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

#### Supplyside Considerations.

In deciding to seek employment the paid sector, w} u v [• ]•] v o  $\mu o \mu \circ CE P CE$  ] v P may also differ somewhatfrom their male counterparts Past employment patterns suggest this is true. Women frequently move in and out of the labor force relative to farewights such as childbirth and children inearly childhood, summer school breakesd elder care of parents (Goldinand Mitchell, 2017; Goldin, 202BLS, 2022) Likewise, women frequently support work demands of their partners by moving for Z ] CE • ‰ }  $\mu \bullet \bullet$  [ i ] section  $\beta$  pattimer work to be available for various family needs. Thus, in considering whether to offer up their labor in the paid market, women may have to considt relative to a competing value of unpaid work in the family. A 2014OECD study sugges the value of unpaid works not an insignificant value Even before COVID womenfaced challenges in gaining equity in promotion opportunities. As suggested, women are more inclined than men to tradiesuccess at work for additional time with family or to play a supportive role for an advancing partner, especially when there is an asymmetry in their earning level (Goldin and Katz, 20KIZ pner, et al, 2020). The question we examinehere is to what extent this pattern changed in response to CONSID olicies and what effect these changesnay have} v CE CE P o CE P o  $CCONSID olicies and what effect these changesnay have} v <math>CE$  CE P o CE P or P or P of P or P

## 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 be**sho**wer (Clapp, 2023; BLS, **2**)02There are several reasons for thisWomen dominateseveral sectors that faced immediate layoftslockdown and some of the greatest losses are the course of the pandemictravel industry, restaurant work, and retail all suffered large layoffs and closures in initial state actions could not go remote asilyand, 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 winterially 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 womee ported being the only one in the household providing hildcare and educational assistance a time when schools and hildcare centers were closedThis was especially true for mothers of young children as Febrizio, Gomes, and Tavares, 2020 the monstrate. They coin the term Storession to suggest the disproportional impact on women especially mother sessociated with the COVID19 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 impacts of Covid disruptionswere greatest for lower income women and minorities in industries facing lockdowns of course there also were positive incentive in government policies for these women tostay home Economic policies such as those that provided bonus unemployment payments operated agreeater positive incentive for lower income workers than their higher income counterpartend perhapsencouraged female workers, especially mother to opt for staying home

The long lockdowns and school closures had a cumulative **effective** gender employment gapeven beyond the arlygroupsjob losses Over time, the challenge of online schooling impacted more highly educated and professional mothers who might have been able to work remotely butchose to cut backs they became aware that their childrenwere not making

government stepped in with increased unemployment benefits. These enhanced payments meant that he 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 poptandemic.

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 tenurleck, 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.

An example of an oppout policy is drawnfrom Michigan State University T(enure Clock Extension Frequently Asked Questions Related to GO [D Æ š v •] v · \_ î î î î •

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 **t**oour 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 departs tenthe extent that women faced greater challenges from COVID disruptions, we expect to see less disparity in tenure outcomes in the optimations, where academics 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 šZ ^š š • [ Z • COVIDí õ U \_ Á Z ] Z CE v I • byZstate, based protection of time 2K students spent in the classroom during the 2020 academic year.

We found that in states where 162 schools were open less than 50% of the time, 60.9% of schools (14) had optout policies, and 39.1% of schools (9) had input olicies. We expect that the universities that are located in states where the schools were dependent that 50% of the time and have optout policies will experience the most gender disparity in terms of tenure.

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The dataset only includes traditional tenuteack positions within academize make the career milestone comparisons meaningful We are using the university department website along with the course catalogs of the universities to determine active professors.

For the initial findings in this paper, we only looked at current professors as of Hale 2023 semester for each school yearly a assembled a dataset 608 assistant and associate professors at 49 of the top schools is too early to determine ow tenure and career advancement were impacted by COVID TBe intention of the findings in this papertos create a general snapshot carcademia right now but we cannot suggest any longerm impact of the policies of interest based on the short imeframe 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 dupet by ether, and in other cases, we relied on the CVs and Semantic Scholar when the data was missing from Dimensions. They be other data discrepancies, but nothing indicates it would affect one group more than another.

The Dimensions data includes njonurnal publications such as cited SSRM prints. We chose to include these because our snapshot is intended to suggest whether each professadied 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 impathesis inclusion may make differences between productive and unproductive scholastarkerbut should not change the appearance of productivity overall.

We also included PhD graduation yearse thear each professor joined this university, and a best guess at gender using CVs, faculty websites, other forms odset fification, and common usages of name Ve used 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 welleas W\* n BT /FQT Q

#### **Initial Findings**

As noted, 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 pandemia of 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, when different groups are compared to each other, the results suggespotential 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 hesepublications and how that might mitigate the gap in numbers.

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

### Table2: GenderBreakdown ofPublication forAssistant Professors

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

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Table 3:GenderBreakdownof Faculty	ypublication b	y KN∠ SCNOOISO	pen 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
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closed formost of the time, but also compare it with the regulatory uncertainty of schools being open the majority of me but suddenly closing at points.

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

The cohort analysis suggests that the col/adpandemic policies may have impacted female professors who graduated their PhD programs a few years before the pandemic stharted most. Given the challenge associated with transitioning to a new departmentd developing new courses the disruption may have one 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 clock-stopping policies may have the same impact that parentalleave had in the Antecol, Bedard, and Stearstudy. 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 acedemis 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 policies would 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 buildiageputation in the profession and within the university are all critical parts of the tenure and promotion process. Unfortunately, the policies directed abund COVID 19 damagedets areas as well.

^ d Z]vP (( š]À v • ]u‰ š• (  $\mu o š Ç • š š \mu • v ‰ CE \}u \}š] v v documented student outcomes in combination with peer reviews, administrative observations, and in ‰ š Z ‰ CE • }v o CE ( o š] <math>v - -8$ )v If WoEmeš codiiXuel tô teâch‰ ‰ X ð ó disproportionately in online and/or asynchronous formats, there are concerns that this could negatively impact the tenure prospects for them furthery(lón, Sara, 2022).

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While extending the tenure clock could help with the longering goal of seeing more women hit essential career milestones, the shorteerm consequence is vulnerability to expected o Ç { ((• v ‰ }••] o Ç o }•]vP }v [• CE CEt toocšnhe băck froEm a• ]š ]• À CE termination.

t }v[š Iv}Á Æ šoÇ šZ futuÆ Läsyoffscolo@Edplay Áut in academia, but, we do know that certain factors are most important when making layoff decision higher educationt trustees, parent sevaluations h(igh classroom rankings), and tenured statuts ese 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 slowly gender equality can be eroded quickly when poles 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 protein tially greaterimpact on women. In this paper we outline how igher education institutions are addressing these issues and suggest a number of critical measures for future an all ysis continue to track the COVID class and the sheeren effects on women in the academy to considerhow 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 determine how they should approach the reality of gender employment differences if they truly waen ployment equity of the sexes

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

Can hard won gendegains be maintained or at lealstsses beimited during times of crisis? Which policies proved most effectivine limiting losses during COVID 1?9

What are the changed gender employment patterns emerging COVID 19Areany of these changes preferenced riven or are they a result of the policies adopted during the pandemia

Most of the suggested responstear addressing the disruption women faced during COVID are increased government assistance has additionat hildcare services and leave policies or special considerations such as stopping the tenure clood ranted to all Are such policies he answer?

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